



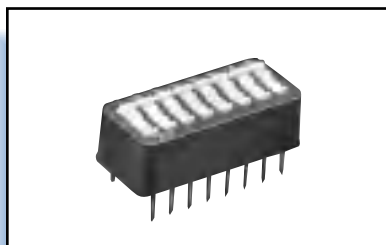
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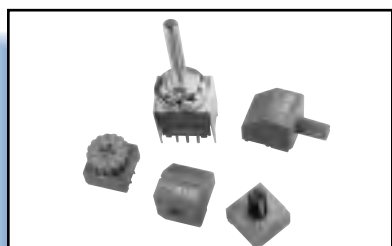
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DIP Switches

A
DIP Switches

A

DIP Switches

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DIP Switches, Low Profile, Slide Actuator, Through Hole and Surface Mount

FEATURES:

- Conventional gold wiping contact system
- Available in PC and surface mount configurations
- Traditional tape seal standard
- 95% Minimum solder coverage (90/10 tin lead)
- Withstands wave soldering temperature of 245°C for 3-5 seconds
- Heat deflection temperature of 260°C for surface mount compatibility
- End stackable (GDS version)
- Auto-insertable (GDS and GDB version)
- Vacuum pick and place compatible (GDS, GDB and GDH)
- Half pitch .050" terminal spacing (GDH version)
- Available in optional tape & reel packaging
- Shipped in the off position

MATERIAL SPECIFICATIONS:

Moving ContactGold over nickel over copper alloy
 Fixed ContactGold over nickel over copper alloy
 Base MaterialPPS UL94V-0
 Cover MaterialPPS UL94V-0
 Actuator MaterialHigh temperature polyester/polyamide
 TerminalTin lead plated over nickel over copper alloy

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 24 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 250 VDC
 Dielectric Strength300 VAC
 Life Expectancy1,000 Cycles
 Operating Force60-600 Grams

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-30°C to +85°C
 Storage Temperature-45°C to +100°C
 Solder Heat ResistanceSee page M3-4



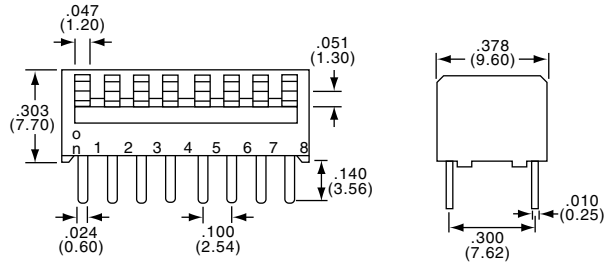
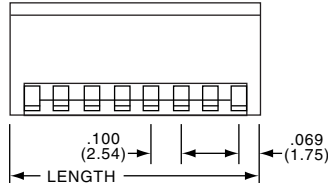
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|------------------|------------|------------------|------------|------------------|------------|------------------|------------|-------|-------------|-------------|
| PC Model | | S Model | | Tape & Reel | | S Model No Tape | | | | |
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 5-1437590-5 | GDS02 | 5-1437590-7 | GDS02S | 5-1437590-8 | GDS02STR | 5-1437590-6 | GDS02NTS | 2 | .194(4.94) | .100(2.54) |
| 5-1437590-9 | GDS04 | 6-1437590-1 | GDS04S | 6-1437590-2 | GDS04STR | 6-1437590-0 | GDS04NTS | 4 | .394(10.02) | .300(7.62) |
| 6-1437590-3 | GDS06 | 6-1437590-5 | GDS06S | 6-1437590-6 | GDS06STR | 6-1437590-4 | GDS06NTS | 6 | .594(15.10) | .500(12.7) |
| 6-1437590-7 | GDS08 | 6-1437590-9 | GDS08S | 7-1437590-0 | GDS08STR | 6-1437590-8 | GDS08NTS | 8 | .794(20.18) | .700(17.78) |
| 7-1437590-1 | GDS10 | 7-1437590-2 | GDS10S | 7-1437590-3 | GDS10STR | — | — | 10 | .994(25.26) | .900(22.86) |

DIP Switches, Piano Actuator, Through Hole and Surface Mount

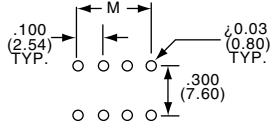
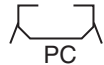
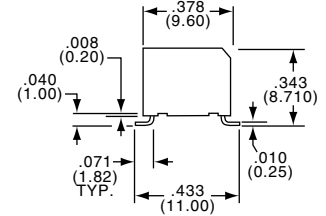
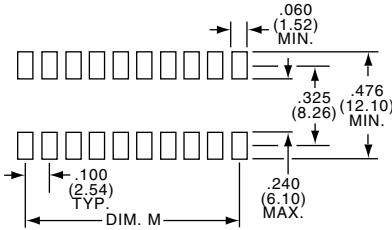
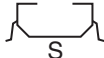
SEE PAGE A3 FOR PRODUCT SPECIFICATIONS

GDP

Classic Profile Piano Actuator



GDP08

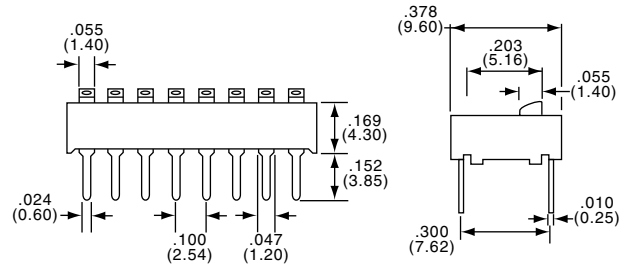
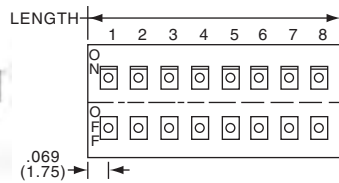


| Part Number | | | | | | | | Poles | Length | Dim. M |
|------------------|------------|------------------|------------|------------------|------------|------------------|------------|-------|--------------|-------------|
| PC Model | | S Model | | Tape and Reel | | S Model No Tape | | | | |
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 3-1437590-2 | GDP02 | 3-1437590-4 | GDP02S | 1571668-1 | GDP02STR | 3-1437590-3 | GDP02NTS | 2 | .238(6.04) | .100(2.54) |
| 3-1437590-5 | GDP04 | 3-1437590-7 | GDP04S | — | — | 3-1437590-6 | GDP04NTS | 4 | .438(11.12) | .300(7.62) |
| 3-1437590-8 | GDP06 | 3-1437590-9 | GDP06S | — | — | — | — | 6 | .638(16.20) | .500(12.7) |
| 4-1437590-0 | GDP08 | 4-1437590-1 | GDP08S | 4-1437590-2 | GDP08STR | — | — | 8 | .838(21.28) | .700(17.78) |
| 4-1437590-3 | GDP10 | 4-1437590-4 | GDP10S | 4-1437590-5 | GDP10STR | — | — | 10 | 1.038(26.36) | .900(22.86) |

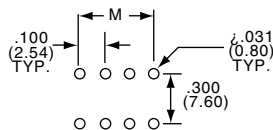
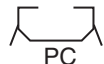
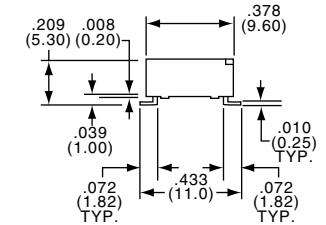
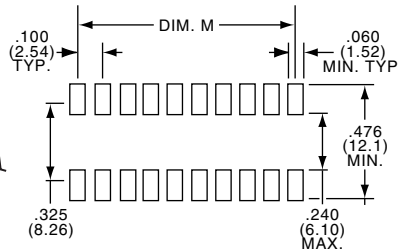
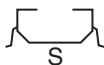
DIP Switches, Flush Rocker Actuator, Through Hole and Surface Mount

GDB

Flush Rocker Actuator



GDB08



| Part Number | | | | | | | | Poles | Length | Dim. M |
|------------------|------------|------------------|------------|------------------|--------------|------------------|------------|-------|--------|--------|
| PC Model | | S Model | | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | | | | | |
| 1437590-1 | GDB02 | — | GDB02S | 2 | .238(6.04) | .100(2.54) | | | | |
| 1437590-2 | GDB04 | 1437590-3 | GDB04S | 4 | .438(11.12) | .300(7.62) | | | | |
| 1437590-4 | GDB06 | 1437590-5 | GDB06S | 6 | .638(16.20) | .500(12.7) | | | | |
| 1437590-6 | GDB08 | 1437590-7 | GDB08S | 8 | .838(21.28) | .700(17.78) | | | | |
| 1437590-8 | GDB10 | 1437590-9 | GDB10S | 10 | 1.038(26.36) | .900(22.86) | | | | |

DIP Switches, Recessed Rocker, Through Hole and Surface Mount

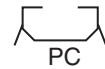
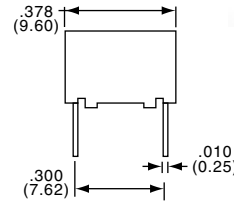
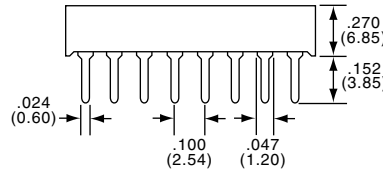
SEE PAGE A3 FOR PRODUCT SPECIFICATIONS

| Part Number | | | | Poles | Length | Dim. M |
|------------------|------------|------------------|------------|-------|--------------|-------------|
| PC Model | | S Model | | | | |
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 4-1437590-6 | GDR02 | 4-1437590-7 | GDR02S | 2 | .238(6.04) | .100(2.54) |
| 4-1437590-8 | GDR04 | 4-1437590-9 | GDR04S | 4 | .438(11.12) | .300(7.62) |
| 5-1437590-0 | GDR06 | 5-1437590-1 | GDR06S | 6 | .638(16.20) | .500(12.7) |
| 5-1437590-2 | GDR08 | 5-1437590-3 | GDR08S | 8 | .838(21.28) | .700(17.78) |
| 5-1437590-4 | GDR10 | — | GDR10S | 10 | 1.038(26.36) | .900(22.86) |

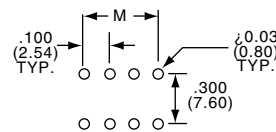
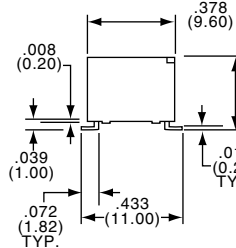
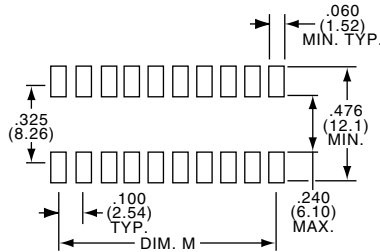
GDR
Classic Profile
Recessed Rocker Actuator



GDR08

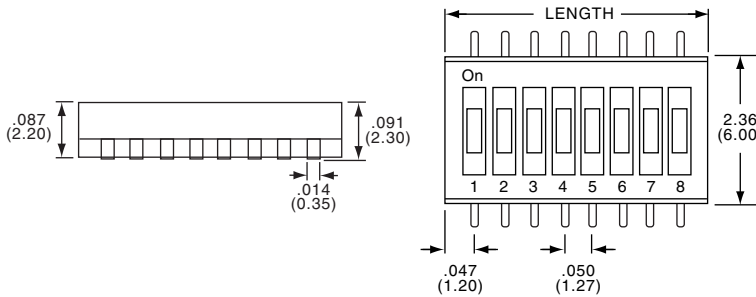


S

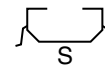
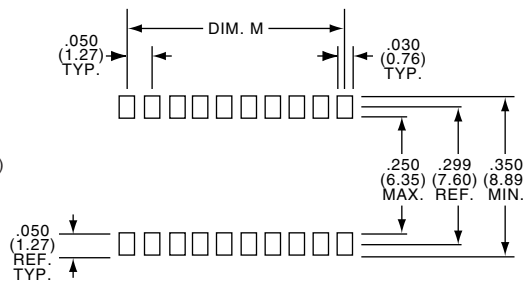
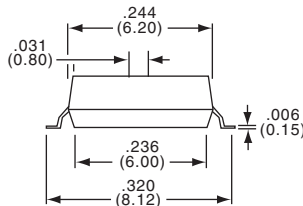


DIP Switches, Half Pitch, Low Profile

GDH
Half Pitch .050" Terminal Spacing



GDH08S



| Part Number | | | | Poles | Length | Dim. M |
|------------------|------------|------------------|------------|-------|-------------|-------------|
| PC Model | | S Model | | | | |
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 1-1437590-0 | GDH02S | 1-1437590-3 | GDH02STR | 2 | .144(3.66) | .050(1.27) |
| 1-1437590-4 | GDH04S | 1-1437590-6 | GDH04STR | 4 | .244(6.20) | .150(3.81) |
| 1-1437590-9 | GDH06S | 2-1437590-1 | GDH06STR | 6 | .344(8.75) | .250(6.35) |
| 2-1437590-2 | GDH08S | 2-1437590-4 | GDH08STR | 8 | .444(11.29) | .350(8.89) |
| 2-1437590-6 | GDH10S | 2-1437590-8 | GDH10STR | 10 | .544(13.82) | .450(11.43) |

DIP Switches, Half Pitch, Ultra Low Profile, .067" High

MATERIAL SPECIFICATIONS:

ContactsCopper alloy, gold plate over nickel
 Case MaterialHigh temperature polyamide, UL 94V-0
 Actuator MaterialHigh temperature polyester, 94V-0
 Moving ContactCopper alloy, gold plate over nickel
 Fixed ContactCopper alloy, gold plate over nickel
 TerminalsCopper alloy, gold flash over nickel

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-30°C to +85°C (-22°F to +185°F)
 Storage Temperature.....-45°C to +100°C (-49°F to +212°F)

TYPICAL PERFORMANCE CHARACTERISTICS:

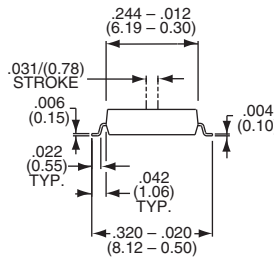
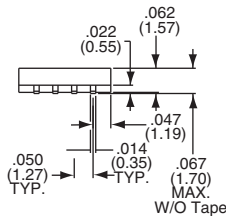
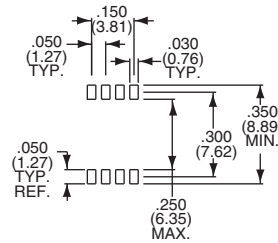
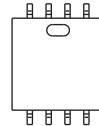
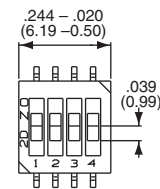
Contact RatingNon-switching: 100 Milliamps @ 50 VDC
 Switching: 25 Milliamps @ 24 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength300 VAC, 1 minute
 Actuation Force60 - 600 Grams max.
 Life Expectancy1,000 Cycles min.

MGDH

Half Pitch .050" Terminal Spacing, .067" High



MGDH04



| Part Number | |
|------------------|------------|
| Tyco Electronics | Alcoswitch |
| 7-1437590-5 | MGDH04 |

DIP Switches, Extended Actuator, Auto Insertable, Through Hole and Surface Mount

FEATURES:

- Available in PC or surface mount termination.
- High pressure wiping contact allows aqueous or solvent cleaning without tape seal.
- Auto-insertable
- Tape Seal version available for vacuum pick-n-place
- Unique design can withstand vapor phase reflow or wave soldering conditions.
- Gas tight contacts
- Shipped in the off position

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-30°C to + 85°C
 Storage Temperature-45°C to + 100°C
 Solder Heat Resistance.....245°C ± 5°C with switch in "off" position 30 seconds when mounted on a .060" thick PCB per MIL-STD202, Method 210
 Cleaning.....Aqueous solution or solvent

MATERIAL SPECIFICATIONS:

Base and CoverPPS-UL94V-0, (Black)
 Actuator.....PA6T-UL94V-0, (White)
 Fixed Contact/TerminalCopper alloy plate-solder/copper
 Moving ContactCopper alloy plate-gold/nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC max.
 Max Rating Switching-100 Milliamp @ 24VDC
 Min Rating Switching-1 Microamp @ 1 Millivolt
 Max Rating Non Switching-1 Amp @ 5VDC
 Initial Contact Resistance50 Milliohms max.
 Insulation Resistance1,000 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC
 Operating ForceLess than 800 grams
 Actuator TravelAD/R Series 1.30mm/.050" piano style 25°
 Life Expectancy1,000 Cycles

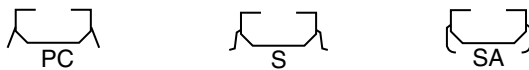


ADE



ADE08
Extended Actuator

S Termination Shown



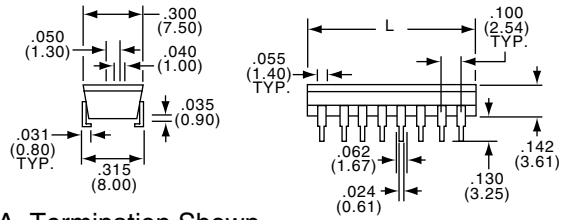
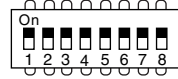
| PC Term. | | "S" Term. | | "SA" Term. | | No. of Positions | Actuator Style | Dim. L |
|------------------|------------|------------------|------------|------------------|------------|------------------|----------------|--------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 1437586-2 | ADE02 | 1437586-4 | ADE02S | 1437586-5 | ADE02SA | 2 | Slide | .278(7.06) |
| 1437586-7 | ADE03 | 1437586-8 | ADE03S | — | ADE03SA | 3 | Slide | .378(9.60) |
| 1-1437586-0 | ADE04 | 1-1437586-2 | ADE04S | 1-1437586-3 | ADE04SA | 4 | Slide | .478(12.14) |
| 1-1437586-5 | ADE05 | 1-1437586-7 | ADE05S | — | ADE05SA | 5 | Slide | .578(14.68) |
| 1-1437586-8 | ADE06 | 2-1437586-0 | ADE06S | 2-1437586-1 | ADE06SA | 6 | Slide | .678(17.22) |
| 2-1437586-3 | ADE07 | 2-1437586-5 | ADE07S | — | ADE07SA | 7 | Slide | .778(19.76) |
| 2-1437586-6 | ADE08 | 2-1437586-8 | ADE08S | 2-1437586-9 | ADE08SA | 8 | Slide | .878(22.30) |
| 3-1437586-0 | ADE09 | — | ADE09S | — | ADE09SA | 9 | Slide | .978(24.84) |
| 3-1437586-2 | ADE10 | 3-1437586-7 | ADE10S | — | ADE10SA | 10 | Slide | 1.078(27.38) |
| 3-1437586-8 | ADE12 | 1571337-1 | ADE12S | — | ADE12SA | 12 | Slide | 1.278(32.51) |

See Page A9 for PC Pad Layout.

DIP Switches, Flush Acuator, Auto Insertable, Through Hole, and Surface Mount

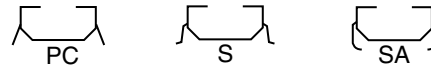
SEE PAGE A7 FOR PRODUCT SPECIFICATIONS

ADF



SA Termination Shown

See Page A9 for PC Pad Layout.



| PC Term. | | PC Term. w/Tape | | No. of Positions | Actuator Style | Dim. L |
|------------------|------------|------------------|------------|------------------|----------------|--------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 4-1437586-2 | ADF02 | 5-1437586-0 | ADF02T | 2 | Slide | .278(7.06) |
| 5-1437586-1 | ADF03 | 5-1437586-6 | ADF03T | 3 | Slide | .378(9.60) |
| 5-1437586-7 | ADF04 | 6-1437586-4 | ADF04T | 4 | Slide | .478(12.14) |
| 6-1437586-5 | ADF05 | 7-1437586-0 | ADF05T | 5 | Slide | .578(14.68) |
| 7-1437586-1 | ADF06 | 8-1437586-0 | ADF06T | 6 | Slide | .678(17.22) |
| 8-1437586-1 | ADF07 | 8-1437586-5 | ADF07T | 7 | Slide | .778(19.76) |
| 8-1437586-6 | ADF08 | 9-1437586-5 | ADF08T | 8 | Slide | .878(22.30) |
| 9-1437586-6 | ADF09 | — | ADF09T | 9 | Slide | .978(24.84) |
| 1437587-1 | ADF10 | 1437587-7 | ADF10T | 10 | Slide | 1.078(27.38) |
| — | ADF12 | 1571336-1 | ADF12T | 12 | Slide | 1.278(32.51) |

| "S" Term. | | "S" Term. w/Tape Seal | | Tape & Reel | | No. of Positions | Actuator Style | Dim. L |
|------------------|------------|-----------------------|------------|------------------|------------|------------------|----------------|--------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 4-1437586-4 | ADF02S | 4-1437586-8 | ADF02ST | 4-1437586-9 | ADF02STTR | 2 | Slide | .278(7.06) |
| 5-1437586-2 | ADF03S | 5-1437586-4 | ADF03ST | 5-1437586-5 | ADF03STTR | 3 | Slide | .378(9.60) |
| 5-1437586-9 | ADF04S | 6-1437586-3 | ADF04ST | 1437583-6 | ADF04STTR | 4 | Slide | .478(12.14) |
| 6-1437586-6 | ADF05S | 6-1437586-8 | ADF05ST | 6-1437586-9 | ADF05STTR | 5 | Slide | .578(14.68) |
| 7-1437586-5 | ADF06S | 7-1437586-8 | ADF06ST | 7-1437586-9 | ADF06STTR | 6 | Slide | .678(17.22) |
| 8-1437586-2 | ADF07S | 8-1437586-3 | ADF07ST | 8-1437586-4 | ADF07STTR | 7 | Slide | .778(19.76) |
| 8-1437586-8 | ADF08S | 9-1437586-1 | ADF08ST | 9-1437586-2 | ADF08STTR | 8 | Slide | .878(22.30) |
| 9-1437586-7 | ADF09S | 9-1437586-8 | ADF09ST | 9-1437586-9 | ADF09STTR | 9 | Slide | .978(24.84) |
| 1437587-3 | ADF10S | 1437587-5 | ADF10ST | 1437587-6 | ADF10STTR | 10 | Slide | 1.078(27.38) |
| 1437587-8 | ADF12S | — | ADF12ST | 1437587-9 | ADF12STTR | 12 | Slide | 1.278(32.51) |

| "SA" Term. | | "SA" Term. w/Tape Seal | | No. of Positions | Actuator Style | Dim. L |
|------------------|------------|------------------------|------------|------------------|----------------|--------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 4-1437586-5 | ADF02SA | 4-1437586-6 | ADF02SAT | 2 | Slide | .278(7.06) |
| 5-1437586-3 | ADF03SA | — | ADF03SAT | 3 | Slide | .378(9.60) |
| 6-1437586-0 | ADF04SA | 6-1437586-1 | ADF04SAT | 4 | Slide | .478(12.14) |
| — | ADF05SA | — | ADF05SAT | 5 | Slide | .578(14.68) |
| 7-1437586-6 | ADF06SA | 7-1437586-7 | ADF06SAT | 6 | Slide | .678(17.22) |
| — | ADF07SA | — | ADF07SAT | 7 | Slide | .778(19.76) |
| 8-1437586-9 | ADF08SA | 9-1437586-0 | ADF08SAT | 8 | Slide | .878(22.30) |
| — | ADF09SA | — | ADF09SAT | 9 | Slide | .978(24.84) |
| — | ADF10SA | 1437587-4 | ADF10SAT | 10 | Slide | 1.078(27.38) |
| — | ADF12SA | — | ADF12SAT | 12 | Slide | 1.278(32.51) |

DIP Switches, Piano Acuator, Auto Insertable, Through Hole, and Surface Mount

ADP

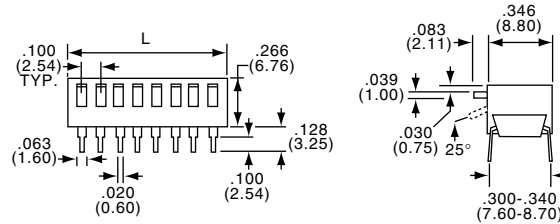


ADP04S

Piano Actuator

"PC" Termination Shown

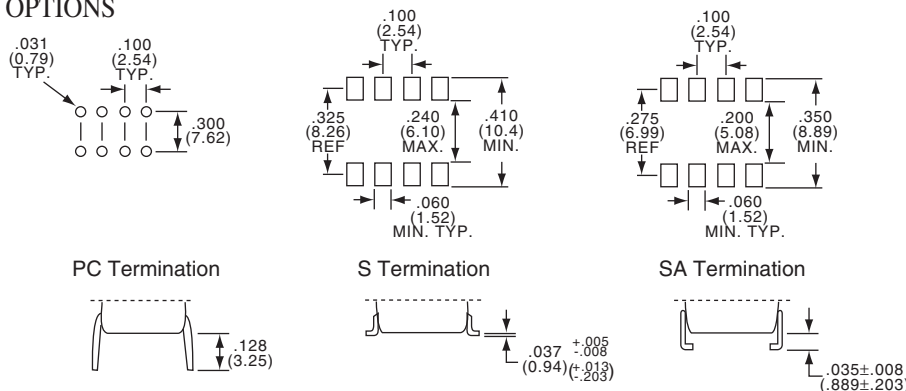
SEE PAGE A7 FOR PRODUCT SPECIFICATIONS



| Lever Down "On" | | "S" Term Lever Down "On" | | "SA" Term. Lever Down "On" | | No. of Positions | Actuator Style | Dim. L |
|------------------|------------|-----------------------------|------------|-------------------------------|------------|------------------|----------------|--------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 1-1437587-1 | ADP02 | 1-1437587-2 | ADP02S | 1-1437587-3 | ADP02SA | 2 | Piano | .278(7.06) |
| 1-1437587-5 | ADP04 | 1-1437587-7 | ADP04S | 1-1437587-8 | ADP04SA | 4 | Piano | .478(12.14) |
| 2-1437587-0 | ADP05 | 2-1437587-1 | ADP05S | — | ADP05SA | 5 | Piano | .578(14.68) |
| 2-1437587-2 | ADP06 | 2-1437587-3 | ADP06S | 2-1437587-4 | ADP06SA | 6 | Piano | .678(17.22) |
| 2-1437587-5 | ADP07 | — | ADP07S | — | ADP07SA | 7 | Piano | .778(19.76) |
| 2-1437587-6 | ADP08 | 2-1437587-8 | ADP08S | 2-1437587-9 | ADP08SA | 8 | Piano | .878(22.30) |
| 3-1437587-0 | ADP09 | — | ADP09S | 3-1437587-1 | ADP09SA | 9 | Piano | .978(24.84) |
| 3-1437587-3 | ADP10 | 3-1437587-6 | ADP10S | — | ADP10SA | 10 | Piano | 1.078(27.38) |

| Lever Up "On" | | "S" Term Lever Up "On" | | "SA" Term. Lever Up "On" | | No. of Positions | Actuator Style | Dim. L |
|------------------|------------|---------------------------|------------|-----------------------------|------------|------------------|----------------|--------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 4-1437587-7 | ADPA02 | — | ADPA02S | — | ADPA02SA | 2 | Piano | .278(7.06) |
| 4-1437587-8 | ADPA04 | 5-1437587-0 | ADPA04S | 5-1437587-1 | ADPA04SA | 4 | Piano | .478(12.14) |
| 5-1437587-2 | ADPA05 | 5-1437587-3 | ADPA05S | — | ADPA05SA | 5 | Piano | .578(14.68) |
| 5-1437587-4 | ADPA06 | 5-1437587-5 | ADPA06S | 5-1437587-6 | ADPA06SA | 6 | Piano | .678(17.22) |
| 5-1437587-7 | ADPA07 | — | ADPA07S | — | ADPA07SA | 7 | Piano | .778(19.76) |
| 5-1437587-8 | ADPA08 | 6-1437587-0 | ADPA08S | — | ADPA08SA | 8 | Piano | .878(22.30) |
| — | ADPA09 | — | ADPA09S | — | ADPA09SA | 9 | Piano | .978(24.84) |
| 6-1437587-1 | ADPA10 | — | ADPA10S | — | ADPA10SA | 10 | Piano | 1.078(27.38) |

TERMINATION OPTIONS



Hybrid DIP Switches, Through Hole and Surface Mount

A
AR Series

AUTO-INSERTABLE* DIP SWITCH WITH INTEGRAL RESISTORS

SEE PAGE A7 FOR PRODUCT SPECIFICATIONS

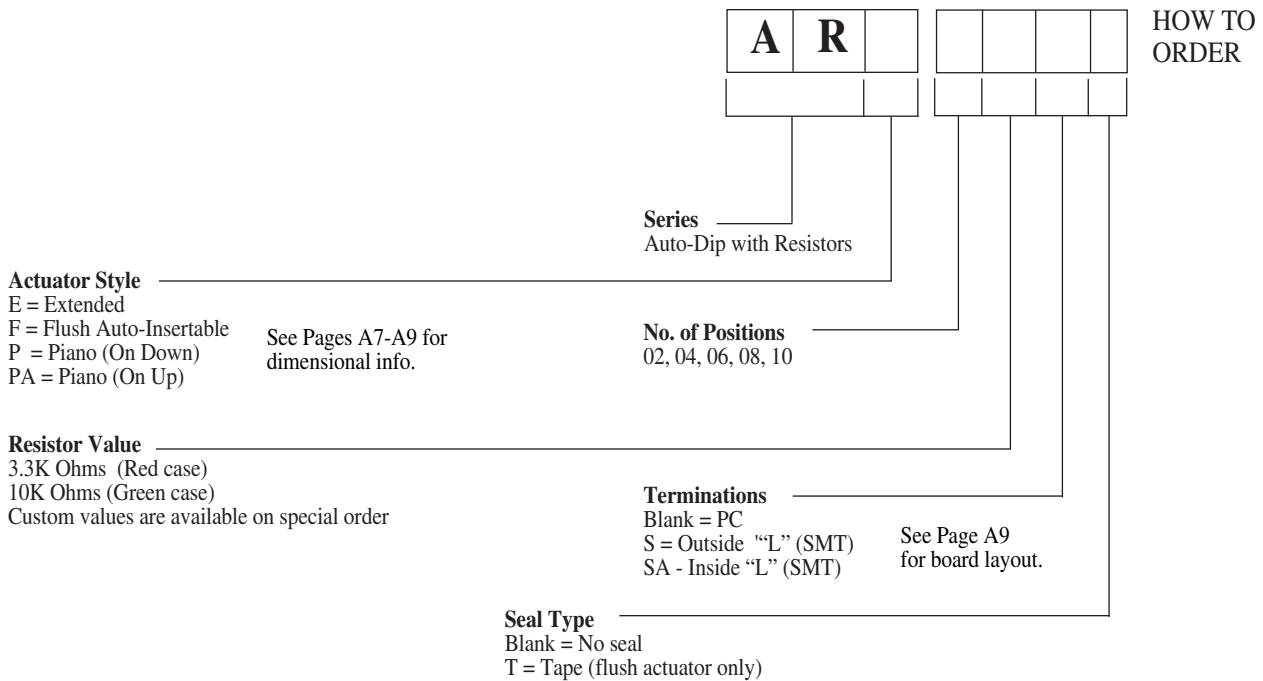
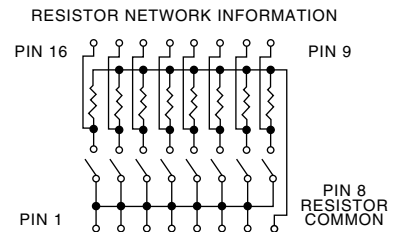
* Flush actuator versions are auto-insertable

FEATURES:

All the features of the AD SERIES - PLUS

- Thick film pull-up resistors molded into the base of the switch.
- Replaces discrete resistor network plus DIP Switch with one component.
- Available with 3.3K ohms or 10K ohms resistors.
- Ceramic substrate allows wave soldering temperatures of 245°C for up to 30 seconds per MIL-STD 202, Method 210.
- Custom resistor values available.
- Shipped in off position.

| Rated Pwr. | Resistance | Tolerance | Max. Voltage |
|------------|------------------|-------------|--------------|
| 125 mW | 3.3K Ohms (red) | ±5% at 85°C | 24V |
| 125 mW | 10K Ohms (green) | ±5% at 85°C | 24V |



Example: ARF 06 10KST = Auto-Dip
 Flush actuator
 06 positions
 10K ohms resistors
 Outside "L" terminations & tape seal



Alcoswitch 7000 Series DIP switches are available in standard single pole, single throw; side actuated, single pole, single throw and multiple series versions. Contacts are made of high strength copper alloy with .000030 [0.00076] gold over .000050 [0.00127] nickel plating in contact area and legs plated to meet Tyco Electronics Solderability Specification 109-11-3.

The multiple series switches offer the unique feature of single pole switches coupled mechanically to provide switching of various poles simultaneously. This allows flexibility in programming.

Multipole switches are available with or without lever-actuated rockers and in a variety of configurations in addition to those listed. The maximum number of poles that can be ganged is six.

DIP Switches

Performance Characteristics

Current and Voltage Rating:

Nonswitching — 1.5 amperes max. at 50 VDC
 Switching — 100 milliamperes max at 5 VDC (resistive load);
 25 milliamperes max. at 24 VDC (resistive load)

Contact Resistance, Dry Circuit:

100 milliohms max. (end of life) and 50 milliohms (initial) at 50 mV open circuit, 50 milliamperes

Insulation Resistance:

1 x 10⁹ ohms min. at 100 VDC (initial)

Dielectric Withstanding Voltage:

500 VDC min. at standard atmospheric conditions

Capacitance:

5 picofarads max.

Temperature Rating:

Nonoperating — -73.3°C to +105°C
 Operating — -55°C to +105°C

Vibration:

Discontinuities shall not exceed 10 microseconds when subjected to 10-2000-10 Hz transversing for 20 minutes at .060 [1.52] inches total excursion

Shock:

No physical damage or discontinuities greater than 10 microseconds when tested with .10 ampere current applied per Tyco Electronics Specification 109-26, Condition A

Humidity:

Withstands an environment of +40°C and 95% RH for 96 hours

Durability:

No physical damage or contact resistance greater than 100 milliohms up to 7000 cycles of actuation with a resistive load of 24 VDC and 25 milliamperes max. current applied

Terminal Strength (Bend Test):

Two (2) 45° bend cycles per MIL-STD-202, Method 211, Condition B

Materials

Housing:

Glass-filled polyester, 94V-0 rated, black

Rocker:

Thermoplastic, 94V-0 rated, white

Spring Contacts and Leads:

Copper alloy with .000030 [0.00076] gold over .000050 [0.00127] nickel in contact area and .000150 [0.00381] tin-lead over .000050 [0.00127] nickel on solder legs, plated to meet Tyco Electronics Solderability Specification 109-11-3.

Technical Documents

Product Specification:

108-7519

Instruction Sheet:

408-07779

Application Specification:

114-1056

**Single Pole
Single Throw
Side Actuated
Low Profile**

Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement

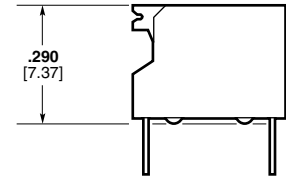


Pin 1

Note: Switches shown in open position



Sealed Version Shown



White Dot Identifies Pin 1



Recommended PC Board Hole Pattern

| No. of Switches | Dim. A | | SPST Side Actuated Part No. | | |
|-----------------|--------|-------|-----------------------------|------------|-------------|
| | inch | mm | Unsealed ¹ | Sealed | Tape Sealed |
| 2 | .280 | 7.11 | 1-435802-0 | — | — |
| 3 | .380 | 9.65 | 435802-2 | — | — |
| 4 | .480 | 12.19 | 435802-3 | 1-435802-5 | — |
| 5 | .580 | 14.73 | 435802-4 | 1-435802-6 | — |
| 6 | .680 | 17.27 | 435802-5 | 1-435802-7 | — |
| 7 | .780 | 19.81 | 435802-6 | 1-435802-8 | — |
| 8 | .880 | 22.35 | 435802-1 | 435802-9 | 3-435802-8 |
| 9 | .980 | 24.89 | 435802-7 | 1-435802-9 | — |
| 10 | 1.080 | 27.43 | 435802-8 | 2-435802-0 | — |
| 11 | 1.180 | 29.97 | — | 2-435802-1 | — |
| 12 | 1.280 | 32.51 | — | 2-435802-2 | — |

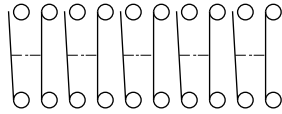
¹ All switches are bottom sealed.

DIP Switches, Extended Actuator, Single or Double Pole, Double Throw

Multiple Single Pole Double Throw

Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement

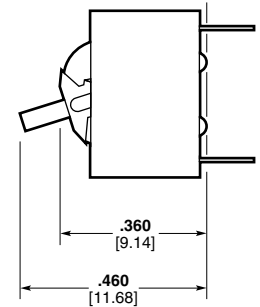


Pin 1

Note: Switch positions are closed when rockers are down toward white dots. Switches have make-before-break circuit design.



White Dot Identifies Pin 1



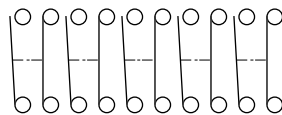
Extended Lever Actuator Shown

| No. of Switches | Dim. A | | SPDT Part No. | |
|-----------------|--------|-------|----------------------|-------------------------|
| | inch | mm | Low Profile Actuator | Extended Lever Actuator |
| 1 | .280 | 7.11 | 435470-7 | 2-435470-1 |
| 2 | .480 | 12.19 | 435470-1 | 2-435470-2 |
| 3 | .680 | 17.27 | 435470-2 | — |
| 4 | .880 | 22.35 | 435470-3 | 2-435470-4 |
| 5 | 1.080 | 27.43 | — | 2-435470-5 |
| 6 | 1.280 | 32.51 | — | 2-435470-6 |

Double Pole Double Throw

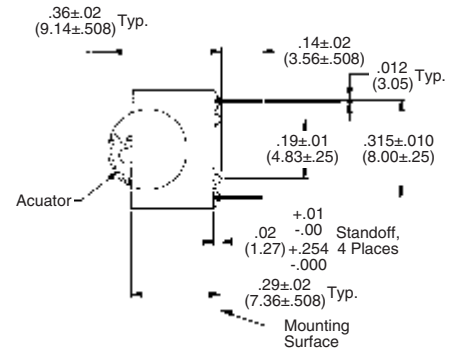
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement



Pin 1

Note: Switch positions are closed when rockers are down toward white dots. Switches have make-before-break circuit design.



Low Profile Lever Actuator Shown

| No. of Switches | Dim. A | | DPDT Part No. | |
|-----------------|--------|-------|----------------------|-------------------------|
| | inch | mm | Low Profile Actuator | Extended Lever Actuator |
| 1 | .480 | 12.19 | 435470-5 | 3-435470-1 |
| 2 | .880 | 22.35 | 435470-9 | — |



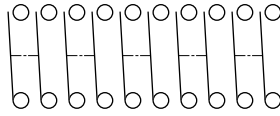
Recommended PC Board Hole Pattern

DIP Switches, Extended Actuator, Multiple Pole, Single Throw

Multiple Double Pole Single Throw

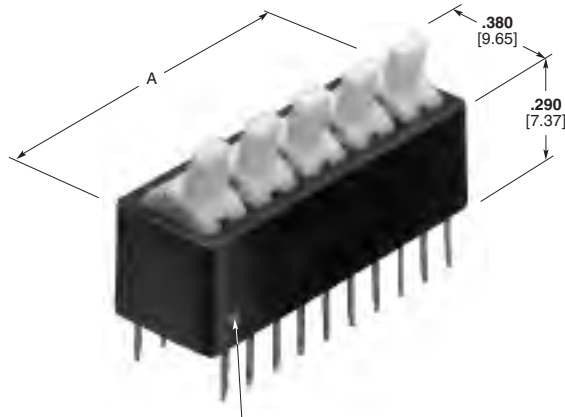
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement

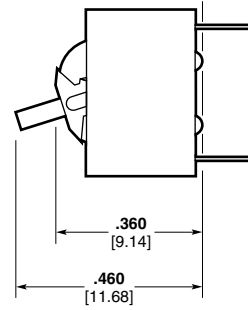


Pin 1

Note: Switches shown in open position.



White Dot Identifies Pin 1



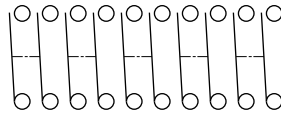
Extended Lever Actuator Shown

| No. of Switches | Dim. A | | DPST Part No. | |
|-----------------|--------|-------|----------------------|-------------------------|
| | inch | mm | Low Profile Actuator | Extended Lever Actuator |
| 1 | .280 | 7.11 | 435469-9 | 2-435469-1 |
| 2 | .480 | 12.19 | — | 2-435469-2 |
| 4 | .880 | 22.35 | 435469-3 | 2-435469-4 |
| 5 | 1.080 | 27.43 | — | 2-435469-5 |
| 6 | 1.280 | 32.51 | — | 2-435469-6 |

4-Pole Single Throw

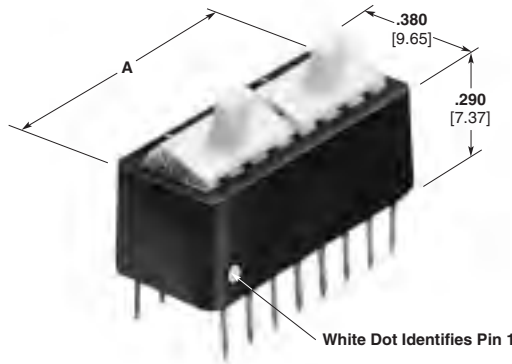
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement

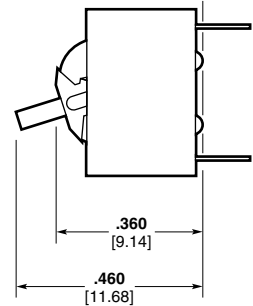


Pin 1

Note: Switches shown in open position.

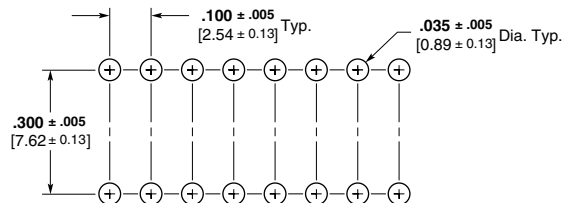


White Dot Identifies Pin 1



Extended Lever Actuator Shown

| No. of Switches | Dim. A | | 4PST Part No. | |
|-----------------|--------|-------|----------------------|-------------------------|
| | inch | mm | Low Profile Actuator | Extended Lever Actuator |
| 1 | .480 | 12.19 | 435469-7 | 3-435469-1 |



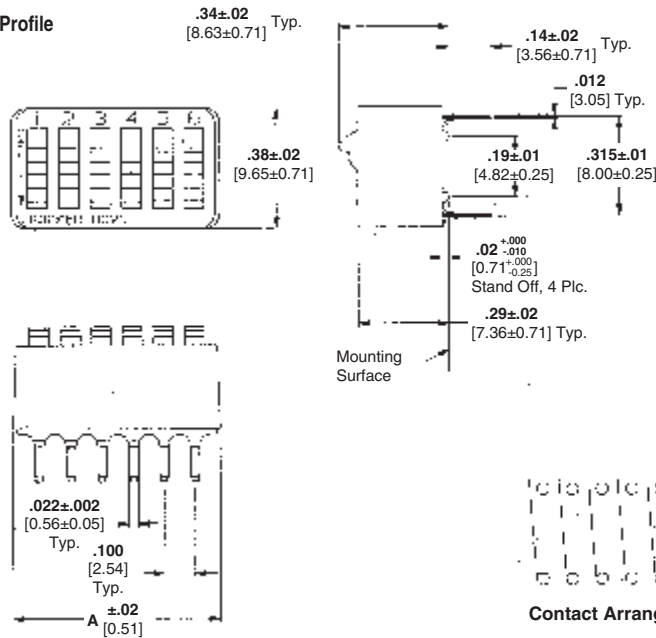
Recommended PC Board Hole Pattern

DIP Switches, Rocker Style Actuator

Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface



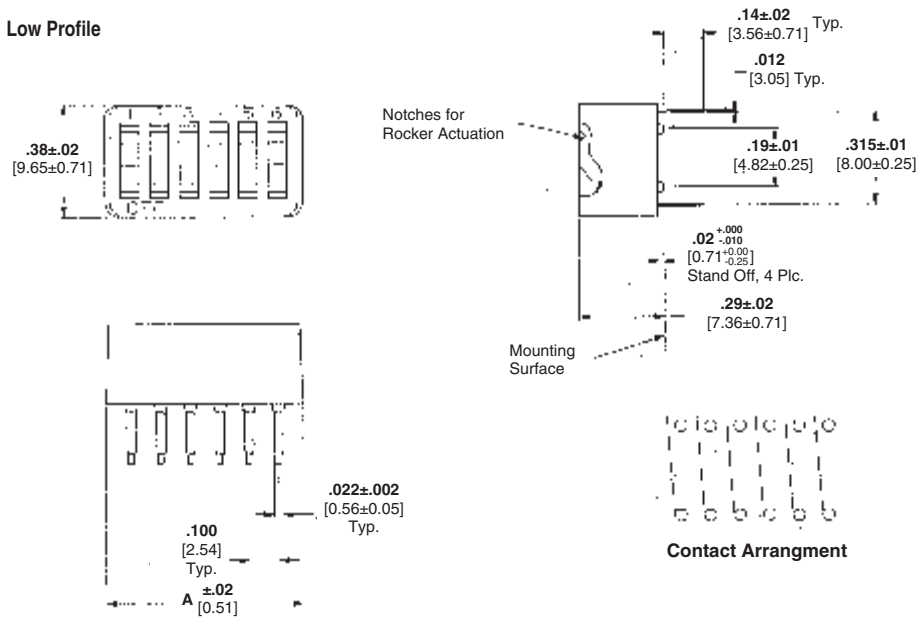
Standard Profile



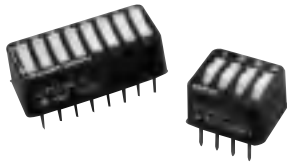
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface



Low Profile



| Number of Switches | SPST Standard Profile | | SPST Low Profile | |
|--------------------|-----------------------|------------|------------------|-------------|
| | Unsealed | Sealed | Unsealed | Tape Sealed |
| 2 | 2-435166-9 | — | — | 3-435626-6 |
| 3 | — | — | — | 3-435626-7 |
| 4 | 435166-2 | 4-435166-9 | 435626-1 | 3-435626-8 |
| 5 | — | 5-435166-0 | 435626-2 | — |
| 6 | 435166-4 | 5-435166-1 | — | 4-435626-0 |
| 7 | 435166-1 | 5-435166-2 | — | 4-435626-1 |
| 8 | 435166-5 | 5-435166-3 | 435626-5 | 4-435626-2 |
| 9 | 435166-6 | — | — | — |
| 10 | 435166-7 | 5-435166-5 | — | 4-435626-4 |



Alcoswitch 7100 Series DIP Switches are recommended for programming applications where the number of cycles per pole is limited. These single pole, single throw switches have been designed for a life of up to 2000 cycles per pole and feature contacts of copper alloy with .000030 [0.00076] gold over nickel plating in the contact area and legs plated to meet Tyco Electronics Solderability Specification 109-11-3. In addition, the SPST standard and low profile switches are also available with a top seal to provide protection during soldering and cleaning processes.

DIP Switches

Performance Characteristics

Current and Voltage Rating:

Nonswitching — 1.0 amperes max. at 40 VDC
 Switching — 60 milliamperes max at 5 VDC (resistive load);
 15 milliamperes max. at 24 VDC (resistive load)

Contact Resistance, Dry Circuit:

100 milliohms max. (end of life) and 50 milliohms (initial) at 50 mV open circuit, 50 milliamperes

Insulation Resistance:

1×10^9 ohms min. at 100 VDC (initial)

Dielectric Withstanding Voltage:

500 VDC min. at standard atmospheric conditions

Capacitance:

5 picofarads max.

Temperature Rating:

Nonoperating — -73°C to +105°C
 Operating — -55°C to +105°C

Vibration:

Discontinuities shall not exceed 10 microseconds when subjected to 10-2000-10 Hz transversing for 20 minutes at .060 [1.52] inches total excursion

Shock:

No physical damage or discontinuities greater than 10 microseconds when tested with .10 ampere current applied per Tyco Electronics Specification 109-26, Condition A

Humidity:

Withstands an environment of +40°C and 95% RH for 96 hours

Durability:

No physical damage or contact resistance greater than 100 milliohms after 2000 cycles of actuation with a resistive load of 24 VDC and 25 milliamperes max. current applied

Terminal Strength (Bend Test):

Two (2) 45° bend cycles per MIL-STD-202, Method 211, Condition B

Materials

Housing:

Glass-filled polyester, 94V-0 rated, blue

Rocker:

Thermoplastic, 94V-0 rated, white

Spring Contacts and Leads:

Copper alloy with .000030 [0.00076] gold over .000050 [0.00127] nickel in contact area and .000150 [0.00381] tin-lead over .000050 [0.00127] nickel on solder legs, plated to meet Tyco Electronics Solderability Specification 109-11-3.

Technical Documents

Product Specification:

108-7532

Instruction Sheet:

408-07779

Application Specification:

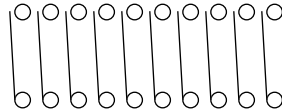
114-1056

DIP Switches, Rocker Style Actuator

**Single Pole
Single Throw**

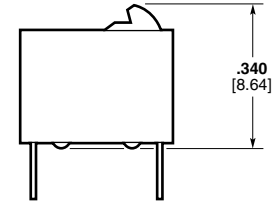
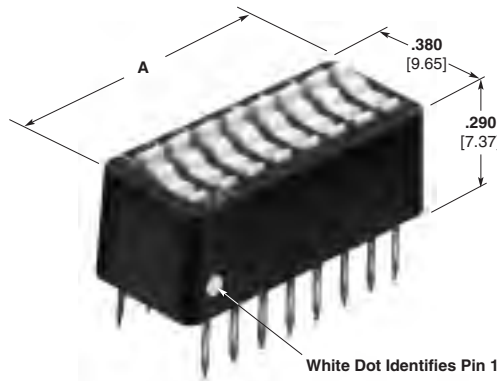
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement



Pin 1

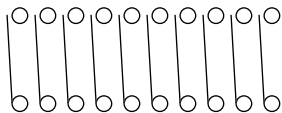
Note: Switches shown in open position.



**Single Pole
Single Throw
Low Profile**

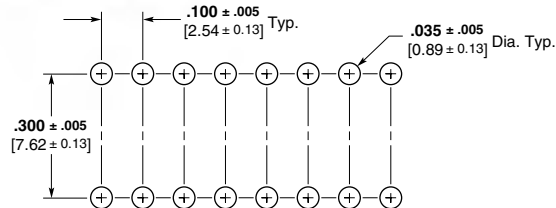
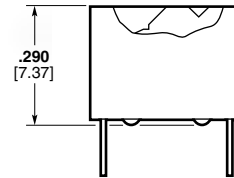
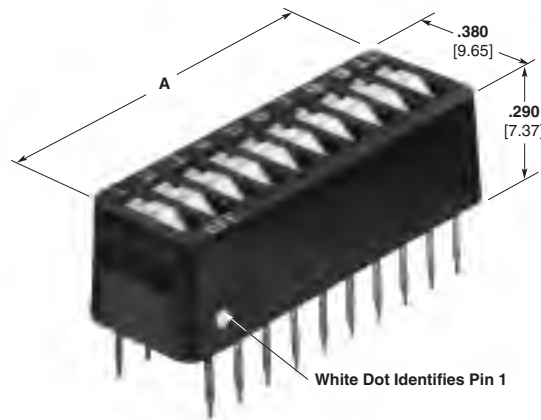
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement



Pin 1

Note: Switches shown in open position.



Recommended PC Board Hole Pattern

| No. of Switches | Dim. A | | SPST Standard Profile | | SPST Low Profile | |
|-----------------|--------|-------|--------------------------------|-----------------|--------------------------------|----------------------|
| | inch | mm | Unsealed ¹ Part No. | Sealed Part No. | Unsealed ¹ Part No. | Tape Sealed Part No. |
| 2 | .280 | 7.11 | 2-435640-9 | — | 435668-1 | 2-435668-6 |
| 3 | .380 | 9.65 | 3-435640-0 | — | — | 3-435668-3 |
| 4 | .480 | 12.19 | 435640-2 | 3-435640-5 | 435668-3 | 3-435668-4 |
| 5 | .580 | 14.73 | 435640-3 | 3-435640-6 | 435668-4 | 3-435668-5 |
| 6 | .680 | 17.27 | 435640-4 | 3-435640-7 | 435668-5 | 2-435668-5 |
| 7 | .780 | 19.81 | 435640-1 | 3-435640-8 | — | 2-435668-7 |
| 8 | .880 | 22.35 | 435640-5 | 3-435640-9 | 435668-7 | 2-435668-8 |
| 9 | .980 | 24.89 | 435640-6 | 4-435640-0 | — | 2-435668-9 |
| 10 | 1.080 | 27.43 | 435640-7 | 4-435640-1 | 435668-9 | 3-435668-0 |
| 11 | 1.180 | 29.97 | — | — | — | 3-435668-1 |
| 12 | 1.280 | 32.51 | 3-435640-2 | 4-435640-3 | — | 3-435668-2 |

¹ All switches are bottom sealed.

Sip Switches, Low Profile, Vertical and Right Angle

FEATURES:

- End-to-end stackable in .100" center (SSV/SLV) versions
- High pressure wiping contacts allows aqueous or solvent cleaning
- Gas tight contacts (280,000 PSI)
- Ceramic substrate allows wave soldering temperature of 245° for up to 10 seconds (SLV Version)
- 2 SIP switches take up less board space than 1 DIP switch

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-30°C to +85°C
 Storage Temperature-45°C to +100°C
 Solder Heat ResistanceWave soldering temperatures of 245°C ± 5°C with switch in off position 30 seconds when mounting on a .060" thick PCB per MIL-STD 202, Method 210

MATERIAL SPECIFICATIONS:

BasePPS 94V-0/Encapsulated Ceramic (SLV/SLH)
 CoverPBT 94V-0
 ContactsGold flashed Beryllium copper
 Actuator MaterialPolyamide
 Terminals/Fixed ContactsSolder coated copper alloy
 Terminal SealInsert molded
 Process SealGas tight contacts

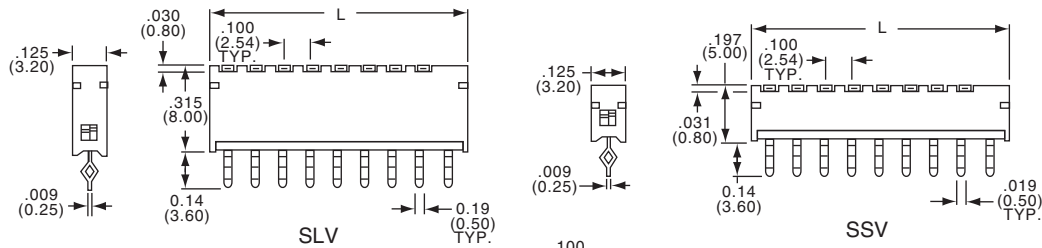
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC max.
 Initial Contact Resistance50 Milliohms max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC
 Actuation Force800 Grams max.
 Actuator Travel50°
 Life Expectancy1,000 Cycles

SSV



SSV08

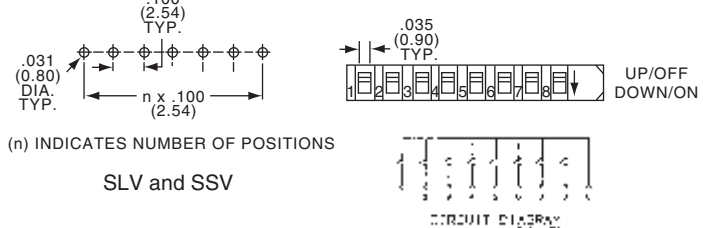


SLV



SLV08

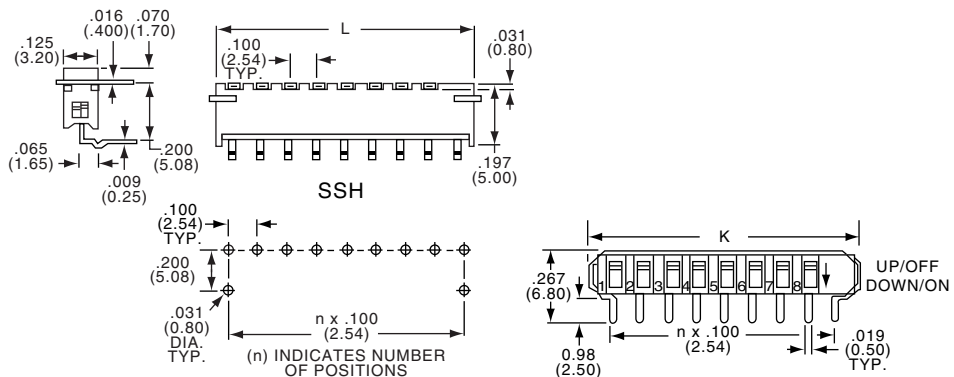
| Model | | No. of Positions | Dim. L |
|------------------|------------|------------------|--------|
| Tyco Electronics | Alcoswitch | | |
| 2-1437589-2 | SSV02 | 2 | 0.298 |
| 2-1437589-3 | SSV04 | 4 | 0.498 |
| 2-1437589-4 | SSV06 | 6 | 0.698 |
| 2-1437589-6 | SSV08 | 8 | 0.898 |
| 2-1437589-7 | SSV10 | 10 | 1.098 |
| 1-1437589-5 | SLV04 | 4 | 0.498 |
| 1-1437589-6 | SLV08 | 8 | 0.898 |



SSH

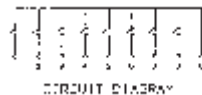


SSH06



SSH

| Model | | No. of Positions | Dim. L | Dim. K |
|------------------|------------|------------------|--------|--------|
| Tyco Electronics | Alcoswitch | | | |
| 1-1437589-7 | SSH02 | 2 | 0.298 | 0.338 |
| 1-1437589-8 | SSH04 | 4 | 0.498 | 0.538 |
| 1-1437589-9 | SSH06 | 6 | 0.699 | 0.738 |
| 2-1437589-0 | SSH08 | 8 | 0.898 | 0.938 |
| 2-1437589-1 | SSH10 | 10 | 1.098 | 1.138 |



Alcoswitch DIP Shunts are a highly reliable, low cost means of manually programming various types of electrical/electronic equipment. The shunt consists of a series of conductive straps packaged in a DIP configuration. The straps can be retained intact for a closed circuit or broken with a hand tool to produce an open circuit.

DIP shunts are available in 4- through 12-position configurations. All shunts can be supplied either unprogrammed or preprogrammed.

DIP Shunts



Performance Characteristics

Current Rating:

Standard Pressure — 2 amperes for +20°C rise above ambient (one conductor per shunt)
Machine Insertable — 1 ampere for +20°C rise above ambient (one conductor per shunt)

Insulation Resistance:

1 x 10¹⁰ ohms min. at 100 VDC

Dielectric Withstanding Voltage:

500 VDC min.

Capacitance:

2 picofarads max. between adjacent straps
5 picofarads max. across cut straps

Temperature Rating:

-55°C to +105°C

Humidity:

Withstands an environment of +40°C and 95% RH for 96 hours

Terminal Strength (Bend Test):

Two 45° bend cycles per MIL-STD-202, Method 211, Condition B
Resistance to Soldering Heat: EIA-364-56A Condition C

Reconnection Option

Cut straps can be reconnected by soldering bridging. Solder bridging recommendations are:

- Use low temperature solder
- Use solder tip approximately 1/32 [0.79] in diameter
- Do not let solder tip come in contact with plastic material

Materials

Housing:

Glass-filled thermoplastic, 94V-0 rated

Metal Parts:

Copper alloy with electroplated tin finish (gold plated I/O legs are optional)

Technical Documents

Product Specifications:

108-7533 Through Hole

Instruction Sheets:

408-07768 Through Hole

Application Specifications:

114-1054 Through Hole

A

DIP Shunts

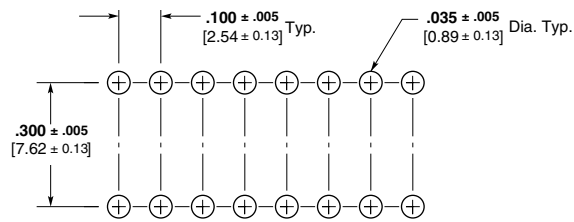
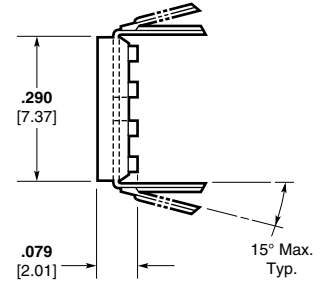
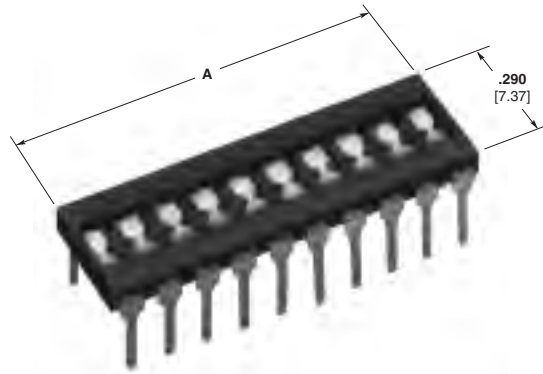
**Standard Shunt
Standard Pressure**

Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface
Housing Color — Black
Programming Tool — See below

**Programming
Hand Tool
Part No. 435862-1**



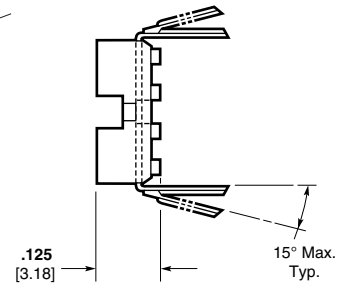
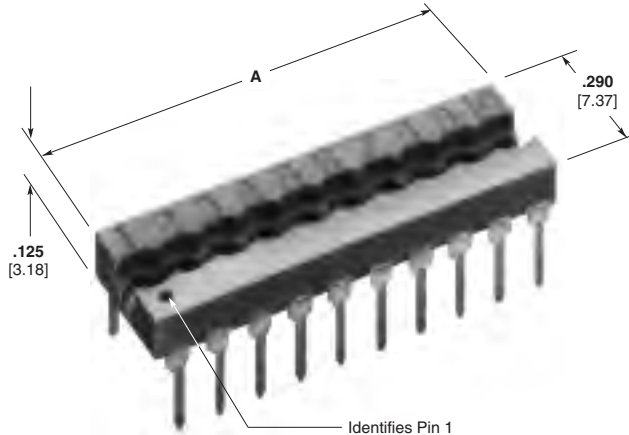
This tool provides a reliable means of programming DIP shunts. It is rugged, lightweight and dependable. No special skills are required to use this tool.



Recommended PC Board Hole Pattern

Machine Insertable Shunt
(Compatible with commercially available IC insertion equipment)

Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface
Housing Color — Gray
Programming Tool — None required
(5 to 10 lbs. [22.2 to 44.4 N] required to manually program each shunt position)



| No. of Positions | Dim. A | | Standard Shunt Standard Pressure | Machine Insertable Shunt |
|------------------|--------|-------|-------------------------------------|-----------------------------|
| | inch | mm | | |
| 4 | .400 | 10.16 | 435704-4 | — |
| 6 | .600 | 15.24 | 435704-6 | — |
| 7 | .700 | 17.78 | 435704-7 | — |
| 8 | .800 | 20.32 | 435704-8 | 436860-7 |
| 9 | .900 | 22.86 | 435704-9 | — |
| 10 | 1.000 | 25.40 | 1-435704-0 | — |
| 12 | 1.200 | 30.48 | 1-435704-2 | — |

Rotary DIP Switches, Low Profile, Process Sealed, 7MM, Through Hole and Surface Mount

FEATURES:

- 40% PCB area space savings over standard rotary dials
- 50% Lower in profile than standard rotary dials
- Hexadecimal or binary code, complement available
- Deflection temperature of 250°C for SMT reflow soldering
- Gold contacts, tin/lead terminals
- Sealed "O" ring design

MATERIAL SPECIFICATIONS:

Fixed Contacts/Terminals.....Brass, gold plated / tin/lead
 Moving Contacts.....BeCu, gold plated
 Case MaterialPPS UL94V-0
 RotorNylon UL94V-0
 Cover MaterialPPS UL94V-0
 O-RingFluoro Rubber

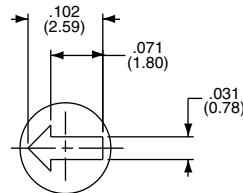
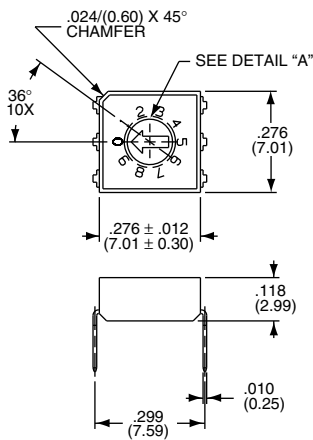
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-10°C to +85°C
 Storage Temperature.....-45°C to +100°C
 Solder Heat ResistanceMIL-STD 202F, Method 210
 IR Process CapabilityEIA-364-56 Level II (250°C peak)

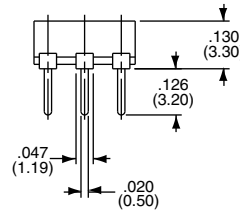
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA Max. @ 20 VDC
 Initial Contact Resistance50m Max. @ 2 VDC 10mA
 Insulation Resistance1,000 Megohms max.
 Dielectric Strength300 VAC for 1 minute
 Actuator Travel.....36° 10 Position, 22.5° 16 position
 Operating Force200 Grams avg.
 Life Expectancy20,000 Steps, mechanical

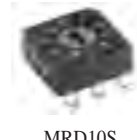
P.C. MOUNT



DETAIL "A"
SCALE 8:1



MRD10



MRD10S

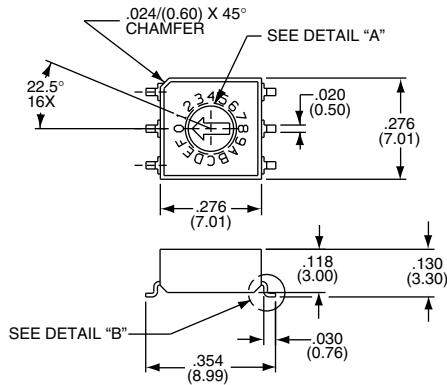


MRD16C

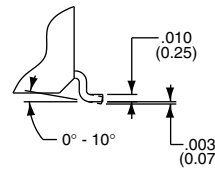


MRD16S

SURFACE MOUNT

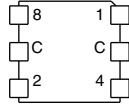


DETAIL "B"
SCALE 8:1

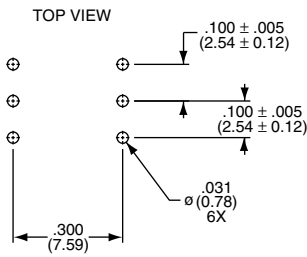


Rotary DIP Switches, Low Profile, Process Sealed, 7MM, Through Hole and Surface Mount

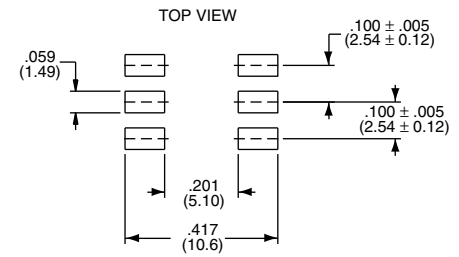
TERMINAL IDENTIFICATION
VIEWED FROM BOTTOM SWITCH



P.C. LAYOUT (THRU HOLE)



P.C. LAYOUT (SURFACE MOUNT)



TRUTH TABLES

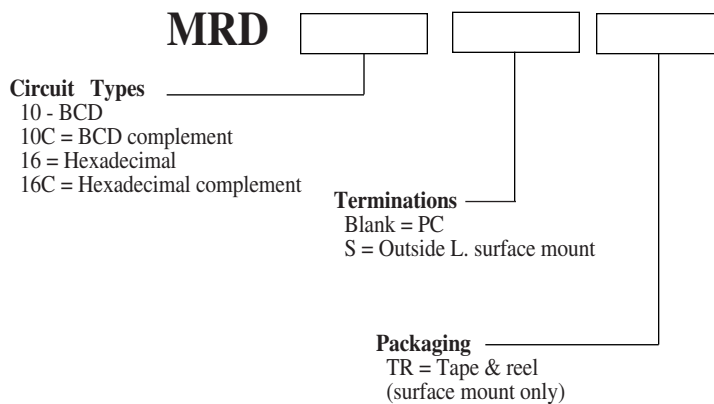
| Pos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------|---|---|---|---|---|---|---|---|---|---|
| C | X | X | X | X | X | X | X | X | X | X |
| 1 | | X | | X | | X | | X | | X |
| 2 | | | X | X | | | X | X | | |
| 4 | | | | | X | X | X | X | | |
| 8 | | | | | | | | | X | X |

| Pos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 1 | | X | | X | | X | | X | | X | | X | | X | | X |
| 2 | | | X | X | | | X | X | | | X | X | | | X | X |
| 4 | | | | | X | X | X | X | | | | | X | X | X | X |
| 8 | | | | | | | | | X | X | X | X | X | X | X | X |

| Pos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------|---|---|---|---|---|---|---|---|---|---|
| C | X | X | X | X | X | X | X | X | X | X |
| 1 | X | | X | | X | | X | | X | |
| 2 | X | X | | | X | X | | | X | X |
| 4 | X | X | X | X | | | | | X | X |
| 8 | X | X | X | X | X | X | X | X | | |

| Pos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 1 | X | | X | | X | | X | | X | | X | | X | | X | |
| 2 | X | X | | | X | X | | | X | X | | | X | X | | |
| 4 | X | X | X | X | | | | | X | X | X | X | | | | |
| 8 | X | X | X | X | X | X | X | X | | | | | | | | |

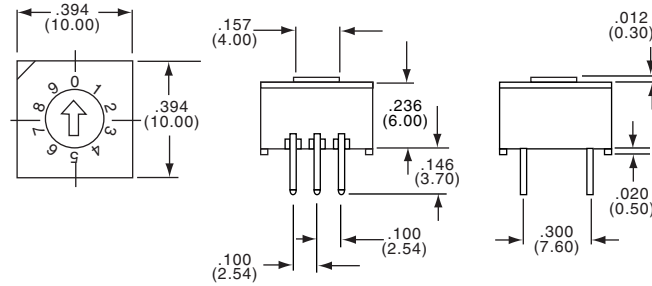
HOW TO ORDER



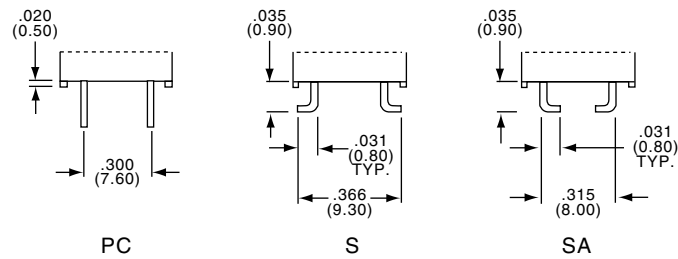
| Color Code | |
|--------------|----------------|
| Circuit Type | Actuator Color |
| 10 | Red |
| 10C | Orange |
| 16 | Green |
| 16C | White |

Rotary DIP Switches, Process Sealed, Through Hole and Surface Mount

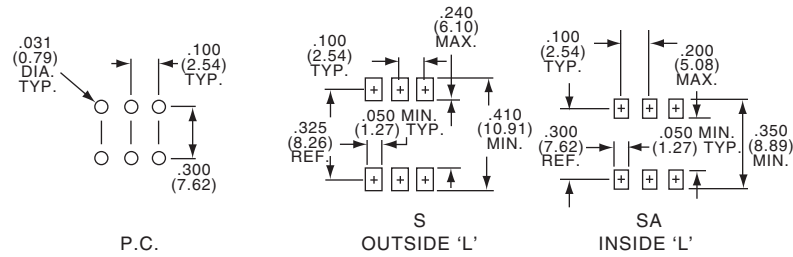
"D" FLUSH ACTUATOR



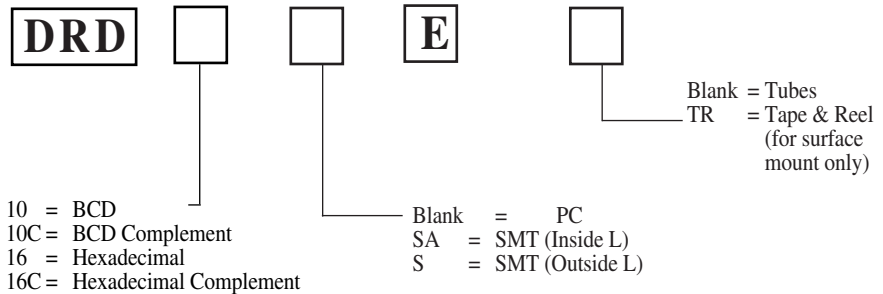
TERMINATIONS



LAYOUTS



HOW TO ORDER



Rotary DIP Switches, Unsealed, Through Hole, Straight and Right-Angle

FEATURES:

- High pressure contacts (140K PSI) provide 20,000 Steps.
- Unique design utilizes high pressure pin-point sliding contacts to penetrate contaminants on contact surface.
- Terminals insert molded into base.

- Screwdriver, knob and shaft (plastic and steel) type actuators available in both upright and right angle versions.

- 10 And 16 position versions with both real and complement codes.

Note: Common terminals connected internally.

MATERIAL SPECIFICATIONS:

ContactsGold flashed copper alloy

TerminalsTin Lead Plated

Base, Rotor, CasePolyester

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC

Initial Contact Resistance50 Milliohms max. @ 2 VDC

Insulation Resistance1,000 Megohms min. @ 100 VDC

Dielectric Strength300 VAC RMS @ sea level

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-22°F to +185°F (-30°C to +85°C)

Storage Temperature.....-49°F to +212°F (-45°C to +100°C)

Vibration Resistance.....Subjected to vibration of 10-55hz per second with a total amplitude of .06 in. in 3 mutually perpendicular directions for 2 hours each

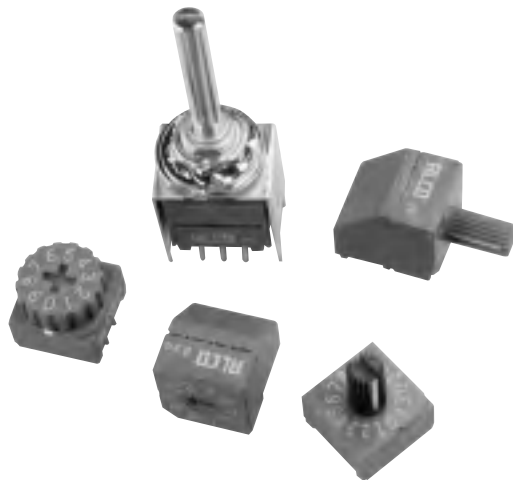
Shock ResistanceWill withstand 50G acceleration in 3 different planes for a period of 11 milliseconds

Salt Spray TestWithstands an atmosphere of 5% salt water at temperature of 50°C

Hydrogen Sulfide TestWithstands an atmosphere of 15-20 PPM hydrogen sulfide gas at temperature of 40°C for 240 hours

Atmosphere Test.....Withstands an atmosphere of 30-50 PPM sulfide gas at a temperature of 40°C for 240 hours

Solder Heat ResistanceWithstands 5 sec. flow solder bath of 260°C when mounted on a .06" thick PC board per MIL-STD 202, Method 210



Example: DRW 10RA = Rotary Dip with
Wheel actuator
BDC -10 position
Right angle PC terminations

Series
Rotary Dips (blue case)

Actuator Style

- *D = Flush
- M = Mini plastic shaft
- W = Wheel
- S = Metal shaft

Circuit Type

- 10 = BCD
- 10C = BCD complement
- 16 = Hexadecimal
- 16C = Hexadecimal complement

HOW TO ORDER

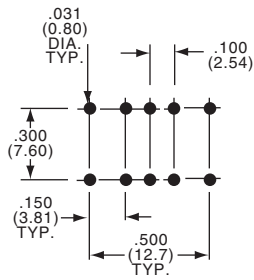
Terminations

- Blank = PC
- RA = Right angle for DRM, DRW, DRS only
- RAE = Right angle, Auto Assembly Compatible for DRD type only

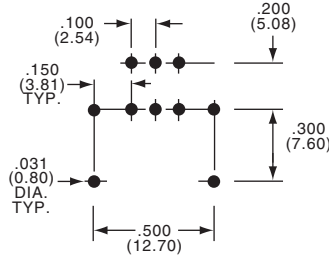
*DRD Available in RAE version only. For PC or SMT versions, see Pg. A24 DRD "E" Process Sealed Product.

Rotary DIP Switches, Unsealed, Through Hole, Straight and Right-Angle

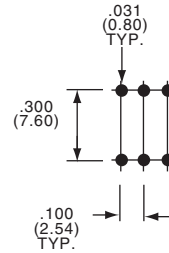
FOOTPRINTS



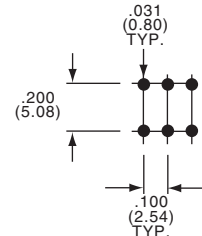
**S STYLE VERTICAL
(METAL SHAFT)**



**S STYLE RA
(METAL SHAFT)**



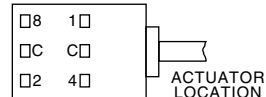
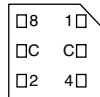
PC



**PC
RIGHT ANGLE**

TRUTH TABLES

Terminal Identification
(view from bottom of the switch)



| 10-Position, BCD (red actuator) | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|
| Pos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| C | X | X | X | X | X | X | X | X | X | X |
| 1 | | X | | X | | X | | X | | X |
| 2 | | | X | X | | | X | X | | |
| 4 | | | | | X | X | X | X | | |
| 8 | | | | | | | | | X | X |

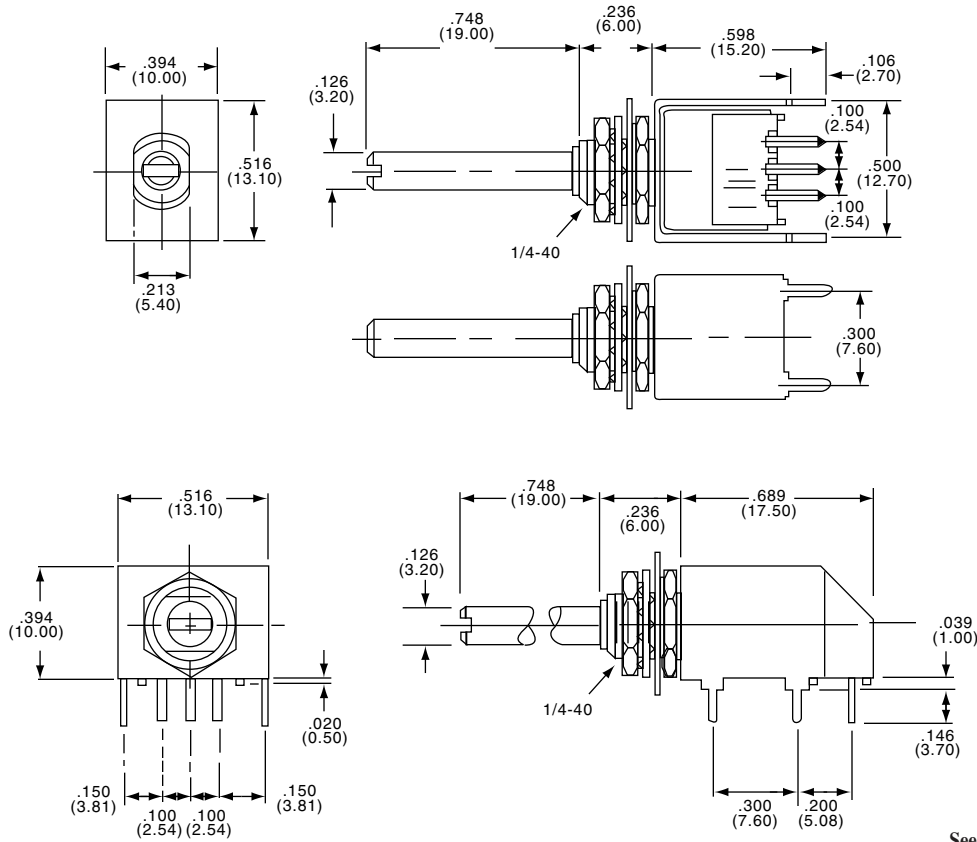
| 16-Position, Hexadecimal (black actuator) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| C | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 1 | | X | | X | | X | | X | | X | | X | | X | | X |
| 2 | | | X | X | | | X | X | | | X | X | | | X | X |
| 4 | | | | | X | X | X | X | | | | | X | X | X | X |
| 8 | | | | | | | | | X | X | X | X | X | X | X | X |

| 10-Position, BCD Complement (orange actuator) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| \bar{C} | X | X | X | X | X | X | X | X | X | X |
| $\bar{1}$ | X | | X | | X | | X | | X | |
| $\bar{2}$ | X | X | | | X | X | | | X | X |
| $\bar{4}$ | X | X | X | X | | | | | X | X |
| $\bar{8}$ | X | X | X | X | X | X | X | X | | |

| 16-Position Hexadecimal Complement (white actuator) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| \bar{C} | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| $\bar{1}$ | X | | X | | X | | X | | X | | X | | X | | X | |
| $\bar{2}$ | X | X | | | X | X | | | X | X | | | X | X | | |
| $\bar{4}$ | X | X | X | X | | | | | X | X | X | X | | | | |
| $\bar{8}$ | X | X | X | X | X | X | X | X | | | | | | | | |

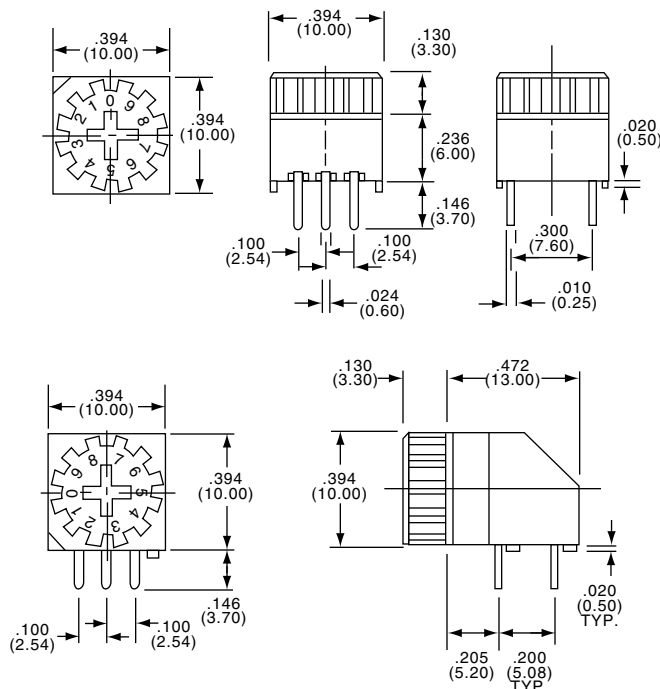
Rotary DIP Switches, Unsealed, Through Hole, Metal Shaft or Wheel Actuator

“S” METAL SHAFT ACTUATOR



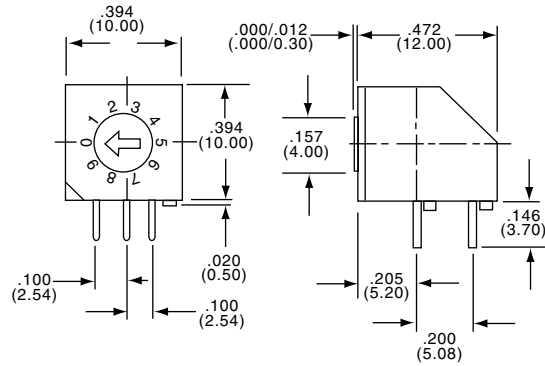
See Section K for knob selection

“W” WHEEL ACTUATOR



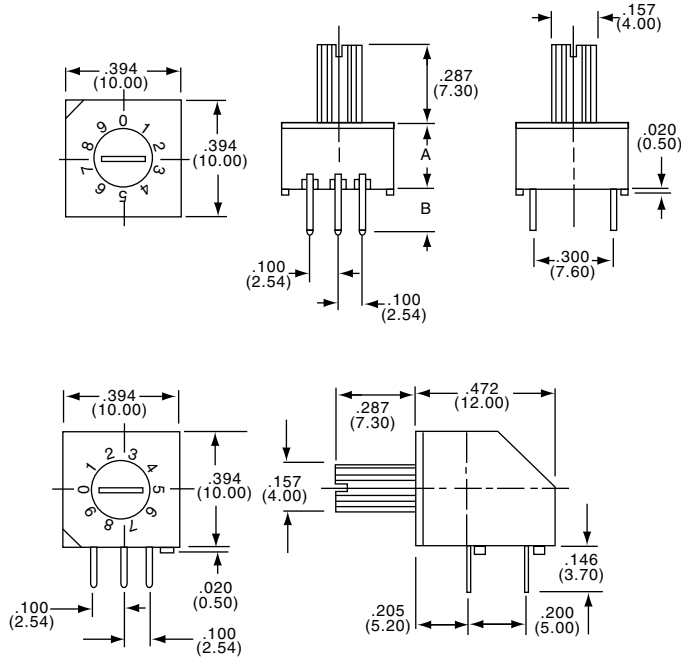
Rotary DIP Switches, Unsealed, Through-Hole, Flush and Mini Shaft Actuator

“D” FLUSH ACTUATOR



| DIM. | DR | RC, *RA, RR |
|------|-------------|-------------|
| A | .236 (6.00) | .256 (6.50) |
| B | .146 (3.70) | .126 (3.20) |

“M” MINI-SHAFT ACTUATOR



| DIM. | DR | RR |
|------|-------------|-------------|
| A | .236 (6.00) | .256 (6.50) |
| B | .146 (3.70) | .126 (3.20) |



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MSS Series - Page B18



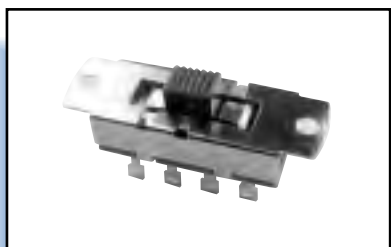
MSSA Series - Page B24



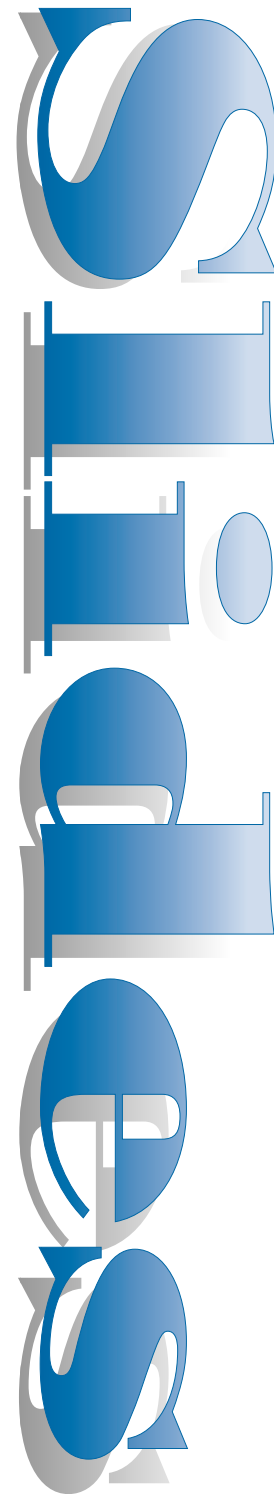
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Slide Switches Part Number Index

B

Slide Switches

| | | | | | | | |
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| ASE22G | B6 | ASF62S | B9 | MSSA101DGRA | B32 | SLS121PC | B43 |
| ASE22GL | B6 | CST022NK | B45 | MSSA101EG | B31 | SLS121RA | B43 |
| ASE22GS | B7 | CST023NK | B45 | MSSA101EGRA | B32 | SLS131PC | B44 |
| ASE22L | B6 | CST042NK | B46 | MSSA104D | B31 | SLS131RA | B44 |
| ASE22R | B5,B6 | CST043NK | B46 | MSSA104D1 | B31 | SLS141PC | B44 |
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| ASE42GL | B6 | MHS122K | B33 | MSSA1350G | B26 | SLS250PC | B40 |
| ASE42GS | B7 | MHS122KG | B33 | MSSA1350R | B26 | SLS260PC | B40 |
| ASE42L | B6 | MHS122RA | B34 | MSSA1350RG | B26 | SLSA120 | B41 |
| ASE42R | B6 | MHS123 | B33 | MSSA1450 | B26 | SLSA1201 | B42 |
| ASE42RG | B6 | MHS123G | B33 | MSSA1450G | B26 | SLSA220 | B41 |
| ASE42RGL | B7 | MHS123GRA | B34 | MSSA1450R | B26 | SLSA2201 | B42 |
| ASE42RGS | B7 | MHS123K | B33 | MSSA1450RG | B26 | SSA12 | B39 |
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| ASE42RS | B7 | MHS123RA | B34 | MSSA201PGRA | B32 | SSA22 | B39 |
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| ASE62GS | B7 | MHS223KG | B33 | MSSA3350G | B28 | STS1300PC | B14 |
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| ASE62R | B6 | MHS233 | B33 | MSSA3350RG | B28 | STS131PC | B13 |
| ASE62RG | B6 | MHS233G | B33 | MSSA3450 | B28 | STS131RA | B13 |
| ASE62RGL | B7 | MHS233GRA | B34 | MSSA3450G | B28 | STS1400PC | B14 |
| ASE62RGS | B7 | MHS233K | B33 | MSSA3450R | B28 | STS1400RA | B14 |
| ASE62RL | B7 | MHS233KG | B33 | MSSA3450RG | B28 | STS141PC | B14 |
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| ASF22GL | B8 | MMS12 | B36 | MSSA4450G | B29 | STS161RA | B15 |
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| ASF22L | B8 | MMS22R | B36 | MSSA4450RG | B29 | STS2300PC | B15 |
| ASF22R | B5,B8 | MMS23 | B36 | S1DGPC | B12 | STS230PC | B16 |
| ASF22RG | B8 | MMS23R | B36 | S1DGRA | B12 | STS2400PC | B15 |
| ASF22RGL | B9 | MMS42 | B37 | S1EGPC | B12 | STS240PC | B16 |
| ASF22RGS | B9 | MMS42R | B37 | S1EGRA | B12 | STS250PC | B16 |
| ASF22RL | B9 | MMS43 | B37 | S2DGPC | B12 | STS260PC | B16 |
| ASF22RS | B9 | MMS43R | B37 | S2DGRA | B12 | STSA220RA | B16 |
| ASF22S | B9 | MSS1200 | B20 | S2EGPC | B12 | STSA220RA1 | B16 |
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| ASF42G | B8 | MSS1200R | B20 | SDS1240RA0 | B17 | STSA230RA1 | B16 |
| ASF42GL | B8 | MSS1200RG | B20 | SDS1240RA8 | B17 | TSD21AAGPC | B18 |
| ASF42GS | B9 | MSS1300 | B20 | SDS1340RA0 | B17 | TSD21DDGIPC | B18 |
| ASF42L | B8 | MSS1300G | B20 | SDS1340RA8 | B17 | TSD21DDGIRA | B19 |
| ASF42R | B8 | MSS1300R | B20 | SDS2240RA0 | B17 | TSD21DDGPC | B18 |
| ASF42RG | B8 | MSS1400 | B21 | SDS2240RA8 | B17 | TSD21DDGIRA | B19 |
| ASF42RGL | B9 | MSS1400G | B21 | SDS2340RA0 | B17 | TSD21IEEGIRA | B19 |
| ASF42RGS | B9 | MSS2225 | B21 | SDS2340RA8 | B17 | TSD21IEEGRA | B19 |
| ASF42RL | B9 | MSS2225G | B21 | SE1DGPC | B12 | TSD21RGIPC | B18 |
| ASF42RS | B9 | MSS2250 | B21 | SE1DGRA | B12 | TSS11AGIPC | B18 |
| ASF42S | B9 | MSS2250G | B21 | SE1DGRA | B12 | TSS11AGPC | B18 |
| ASF43 | B8 | MSS2250R | B22 | SE1DGSMT | B11 | TSS11DGIPC | B18 |
| ASF43G | B8 | MSS2250RG | B22 | SE1DGSMTR | B11 | TSS11DGIRA | B19 |
| ASF43GL | B8 | MSS4200 | B22 | SE1EGPC | B12 | TSS11DGPC | B18 |
| ASF43GS | B9 | MSS4200G | B22 | SE1EGRA | B12 | TSS11DGRA | B18 |
| ASF43L | B8 | MSS4200R | B23 | SE1EGSMT | B11 | TSS11EGIRA | B19 |
| ASF43R | B8 | MSS4200RG | B23 | SE1EGSMTR | B11 | TSS11EGIPC | B18 |
| ASF43RG | B8 | MSS4250 | B22 | SE1GSMT | B11 | TSS11EGIRA | B19 |
| ASF43RGL | B9 | MSS4300 | B23 | SE1GSMTR | B11 | TSS11EGPC | B18 |
| ASF43RGS | B9 | MSS4300G | B23 | SE2DGPC | B12 | TSS11EGRA | B19 |
| ASF43RL | B9 | MSS4300R | B24 | SE2DGRA | B12 | TSS21KGIIPC | B18 |
| ASF43RS | B9 | MSS4300RG | B24 | SE2EGPC | B12 | TSS21KGPC | B18 |
| ASF43S | B9 | MSS4335 | B23 | SE2EGRA | B12 | TSS21NGIPC | B18 |
| ASF62 | B8 | MSS4350R | B24 | SL1000 | B40 | TSS21NGIRA | B19 |
| ASF62G | B8 | MSS4350RG | B24 | SL220 | B40 | TSS21NGPC | B18 |
| ASF62GL | B8 | MSS6200 | B24 | SL330 | B40 | TSS21NGRA | B19 |
| ASF62GS | B9 | MSS6200G | B24 | SL550 | B40 | TSS21PAGRA | B19 |
| ASF62L | B8 | MSS6250 | B25 | SL660 | B40 | TSS21PGIRA | B19 |
| ASF62R | B8 | MSS6350 | B25 | SL770 | B40 | TSS21PGPC | B18 |
| ASF62RG | B8 | MSS6350G | B25 | SL880 | B40 | TSS21PGRA | B19 |
| ASF62RGL | B9 | MSS6350R | B25 | SLS120 | B41 | TSS41NGPC | B18 |
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B2

Slide Switch Selection Guide

PRODUCT LINE FEATURES

- One of the broadest lines in the industry.
- One to six pole configurations.
- Current ratings from 0.4V @ 20VDC to 3A @ 115VAC.
- Miniature and sub-miniature case sizes.
- Gold or silver plating available in most series.
- Wave solderable, washable, and surface mount versions.
- Rocker (butt), shoe and bifurcated contact mechanisms.
- Vertical and RA actuator styles.

| CIRCUITRY | SERIES | TERMINATION | CONTACT RATING/PLATING | ACTION | LIFE EXPECTANCY |
|-----------|----------------------|----------------------|------------------------|----------------|-----------------|
| SPST | TSS | P.C. | .4VA/GOLD | STANDARD/FLUSH | 80K CYCLES |
| SPDT | MHS | P.C./RIGHT ANGLE | .4VA/GOLD:300mA/SILVER | STANDARD/BATON | 15K CYCLES |
| | MLL | SURFACE MOUNT | 0.3A @ 4 VDC/SILVER | RIGHT ANGLE | 10K CYCLES |
| | MMS | P.C. | 100MA/SILVER | STANDARD | 10K CYCLES |
| | MSS | P.C./RIGHT ANGLE | .4VA/GOLD:300MA/SILVER | STANDARD | 15K CYCLES |
| | MSSA ^H H1 | P.C./RIGHT ANGLE | .4VA/GOLD | STANDARD | 30K CYCLES |
| | MSSA ^H H4 | P.C./RIGHT ANGLE | 3A/SILVER | STANDARD | 30K CYCLES |
| | SDS | P.C./RIGHT ANGLE | 300mA @ 125VAC/SILVER | STANDARD | 10K CYCLES |
| | SE, S | P.C./RIGHT ANGLE/SMT | .4VA/GOLD | STANDARD | 6K CYCLES |
| | SL | P.C. | 250mA/SILVER | STANDARD | 6K CYCLES |
| | SLS | P.C./RIGHT ANGLE | 250mA/SILVER | STANDARD | 6K CYCLES |
| | SLS/A | P.C. | 500mA/SILVER | STANDARD | 10K CYCLES |
| | SSA | P.C. | 100mA/SILVER:.4VA/GOLD | STANDARD | 10K CYCLES |
| | SSB | P.C./RIGHT ANGLE | 100MA/SILVER:.4VA/GOLD | STANDARD | 10K CYCLES |
| | SSJ | P.C./RIGHT ANGLE | 100mA/SILVER | STANDARD | 10K CYCLES |
| | STS | P.C./RIGHT ANGLE | 300mA/SILVER | STANDARD | 10K CYCLES |
| | TSS | P.C./RIGHT ANGLE | .4VA/GOLD | STANDARD/FLUSH | 60-80K CYCLES |
| SP3T | MHS | P.C./RIGHT ANGLE | 300MA/SILVER:.4VA/GOLD | STANDARD/BATON | 15K CYCLES |
| | MLL | SURFACE MOUNT | 0.3A @ 4 VDC/SILVER | RIGHT ANGLE | 10K CYCLES |
| | MSS | P.C./RIGHT ANGLE | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES |
| | MSSA | P.C./RIGHT ANGLE | 300MA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES |
| | SDS | P.C./RIGHT ANGLE | 300mA @ 125VAC/SILVER | STANDARD | 10K CYCLES |
| | SL | P.C. | 250mA/SILVER | STANDARD | 6K CYCLES |
| | SLS | P.C./RIGHT ANGLE | 250MA/SILVER | STANDARD | 6K CYCLES |
| | SSJ | P.C. | 100mA/SILVER | STANDARD | 10K CYCLES |
| | STS | P.C./RIGHT ANGLE | 300mA/SILVER | STANDARD | 10K CYCLES |
| SP4T | MSS | P.C. | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES |
| | MSSA | P.C./RIGHT ANGLE | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES |
| | SLS | P.C./RIGHT ANGLE | 250mA/SILVER | STANDARD | 6K CYCLES |
| | STS | P.C./RIGHT ANGLE | 300mA/SILVER | STANDARD | 10K CYCLES |
| SP5T | SL | P.C. | 250mA/SILVER | STANDARD | 6K CYCLES |
| | SLS | P.C./RIGHT ANGLE | 250mA/SILVER | STANDARD | 6K CYCLES |
| | STS | P.C./RIGHT ANGLE | 300mA/SILVER | STANDARD | 10K CYCLES |
| SP6T | SL | P.C. | 250mA/SILVER | STANDARD | 6K CYCLES |
| | STS | P.C./RIGHT ANGLE | 300mA/SILVER | STANDARD | 10K CYCLES |
| SP7T | SL | P.C. | 250mA/SILVER | STANDARD | 6K CYCLES |
| SP8T | SL | P.C. | 250mA/SILVER | STANDARD | 6K CYCLES |
| SP10T | SL | P.C. | 250mA/SILVER | STANDARD | 6K CYCLES |
| DPST | TSS | P.C. | .4VA/GOLD | STANDARD/FLUSH | 80K CYCLES |
| DPDT | ASE/F | P.C./RIGHT ANGLE/SMT | .4VA/GOLD:300mA SILVER | STANDARD/FLUSH | 10K CYCLES |
| | CSS | P.C. | 300mA/SILVER | BATON | 15K CYCLES |
| | CST | P.C. | 300mA/SILVER | BATON | 15K CYCLES |
| | MHS | P.C./RIGHT ANGLE | 300mA/SILVER:.4VA/GOLD | STANDARD/BATON | 15K CYCLES |
| | MMS | P.C./RIGHT ANGLE | 100mA/SILVER | STANDARD | 10K CYCLES |
| | MSS | P.C./RIGHT ANGLE | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES |
| | MSSA21 | P.C./RIGHT ANGLE | .4VA/GOLD | STANDARD | 30K CYCLES |

B

Slide Switches

Slide Switch Selection Guide

B
Slide Switches

| CIRCUITRY | SERIES | TERMINATION | CONTACT RATING/PLATING | ACTUATION | LIFE EXPECTANCY | |
|-----------|----------|----------------------|-------------------------|------------------------|-----------------|------------|
| DPDT | 1571491 | PANEL | 6A/SILVER | STANDARD | 5K CYCLES | |
| | MSSA2H4 | P.C./RIGHT ANGLE | 3A/SILVER | STANDARD/FLUSH | 30K CYCLES | |
| | SDS | P.C./RIGHT ANGLE | 300mA @ 125 VAC/SILVER | STANDARD | 10K CYCLES | |
| | SE, S | P.C./RIGHT ANGLE | .4VA/GOLD | STANDARD | 10K CYCLES | |
| | SLS | P.C. | 250mA/SILVER | STANDARD | 6K CYCLES | |
| | SLS/A | P.C. | 500mA/SILVER | STANDARD | 10K CYCLES | |
| | SSA | P.C. | 100mA/SILVER:.4VA/GOLD | STANDARD | 10K CYCLES | |
| | SSB | P.C./RIGHT ANGLE | 100mA/SILVER:.4VA/GOLD | STANDARD | 10K CYCLES | |
| | STS | P.C./RIGHT ANGLE | 300 mA/SILVER | STANDARD | 10K CYCLE | |
| | TSS | P.C./RIGHT ANGLE | .4VA/GOLD | STANDARD/FLUSH | 60-80K CYCLES | |
| | DP3T | 1571490 | PANEL | 13A/SILVER | STANDARD | 5K CYCLES |
| | | CST | P.C. | 300mA/SILVER | BATON | 10K CYCLES |
| | | MHS | P.C./RIGHT ANGLE | 300mA/SILVER:.4VA/GOLD | STANDARD/BATON | 15KCYCLES |
| MMS | | P.C./RIGHT ANGLE | 100mA/SILVER | STANDARD | 10K CYCLES | |
| MSSA | | P.C./RIGHT ANGLE | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES | |
| SDS | | P.C./RIGHT ANGLE | 300mA @ 125 VAC | STANDARD | 10K CYCLES | |
| SLS | | P.C. | 250mA/SILVER | STANDARD | 6K CYCLES | |
| STS | | P.C./RIGHT ANGLE | 300mA/SILVER | STANDARD | 10K CYCLES | |
| DP4T | | MSS | P.C. | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES |
| | | MSSA | P.C./RIGHT ANGLE | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES |
| | | SLS | P.C. | 250mA/SILVER | STANDARD | 6K CYCLES |
| DP5T | | STS | P.C./RIGHT ANGLE | 300mA/SILVER | STANDARD | 10K CYCLES |
| | | SLS | P.C. | 250mA/SILVER | STANDARD | 6K CYCLES |
| DP6T | STS | P.C./RIGHT ANGLE | 300mA/SILVER | STANDARD | 10K CYCLES | |
| | SLS | P.C. | 250mA/SILVER | STANDARD | 6K CYCLES | |
| 3P3T | MSSA | P.C./RIGHT ANGLE | 300mA/SILVER: .4VA/GOLD | STANDARD | 15K CYCLES | |
| | SSB | P.C. | 100mA/SILVER:.4VA/GOLD | STANDARD | 10K CYCLES | |
| | MSSA | P.C./RIGHT ANGLE | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES | |
| 4PDT | ASE/F | P.C./RIGHT ANGLE/SMT | 300mA/SILVER:.4VA/GOLD | STANDARD/FLUSH | 10K CYCLES | |
| | CST | P.C. | 300mA/SILVER | BATON | 10K CYCLES | |
| | MMS | P.C./RIGHT ANGLE | 100mA/SILVER | STANDARD | 10K CYCLES | |
| | MSS | P.C./RIGHT ANGLE | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES | |
| | SSB | P.C. | 100mA/SILVER:.4VA/GOLD | STANDARD | 10K CYCLES | |
| | TSS | P.C./RIGHT ANGLE | .4VA/GOLD | STANDARD | 80K CYCLES | |
| | ASE/F | P.C./RIGHT ANGLE/SMT | 300mA/SILVER | STANDARD/FLUSH | 10K CYCLES | |
| 4P3T | CST | P.C. | 300mA/SILVER | BATON | 10K CYCLES | |
| | MHS | P.C. | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES | |
| | MMS | P.C./RIGHT ANGLE | 100mA/SILVER | STANDARD | 10K CYCLES | |
| | MSS/MSSA | P.C./RIGHT ANGLE | 300mA/SILVER:.4VA/GOLD | STANDARD | 15L CYCLES | |
| 4P4T | MSSA | P.C./RIGHT ANGLE | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES | |
| 6PDT | ASE/F | P.C./RIGHT ANGLE/SMT | 300mA/SILVER:.4VA/GOLD | STANDARD/FLUSH | 10K CYCLES | |
| | CST | P.C. | 300mA/SILVER:.4VA/GOLD | BATON | 10K CYCLES | |
| | MSS | P.C. | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES | |
| 6P3T | MSS | P.C./RIGHT ANGLE | 300mA/SILVER:.4VA/GOLD | STANDARD | 15K CYCLES | |

Slide Switches, Auto-insertable, Through Hole and Surface Mount

FEATURES:

- Unique design allows ASE/F to withstand aqueous or solvent cleaning processes.
- High temperature anti-static plastic construction will withstand most surface mount, vapor phase reflow or wave soldering conditions.
- Three standard types:
ASF – DIP package with flush actuator allows auto insertion on standard IC equipment. Standard tape seal and closed case construction provide process seal.

- ASFO–Open ended flush actuator without tape seal.
- ASE–extended actuator open-ended case allows washout after process cleaning.
- 2, 4 and 6 pole versions available with top or side actuator.
- Bifurcated double wipe contacts provide dependable, telecom grade switching.
- Industry standard .100 x .300 pin spacing

MATERIAL SPECIFICATIONS:

ContactsGold over nickel or
Silver over nickel flash
Case MaterialPET
Actuator MaterialNylon
Terminal.....Copper alloy, terminals tin lead plate
(90/10) over nickel

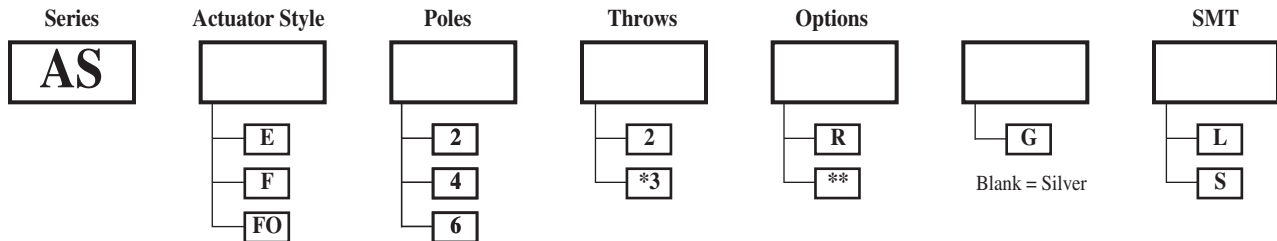
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact RatingGold: 0.4 VA @ 20 VDC or peak AC shorting type
Silver: 300mA @ 115 VAC 28 VDC
Initial Contact Resistance40 Milliohms max.
Insulation Resistance1,000 Megohms @ 500 VDC min.
Dielectric Strength1,000 Volts RMS @ sea level
Contact TimingShorting
Life Expectancy10,000 Cycles
Actuation Force850g±150grams
Travel100 ±.010 [2.54±.25]

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-40°F to +176°F (-40°C to +80°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)
Solder Heat ResistanceSee page M3-M4
Movable ContactCopper alloy
Terminal SealInsert molded

PART NUMBERING



ASF: Tape seal, closed (sealed) case, flush top actuator.
ASE: Open ended case, extended top or side actuator.
ASFO: Open ended case, flush top or side actuator.

Standard actuator color is white.
E= Extended actuator
F= Flush actuator
FO= Open ended without tape seal
G= Gold contacts
R= Side actuator
*3= Throw available in 4 pole only
L= SMT terminal configuration
S= SMT terminal reverse L configuration (Refer to page B10 for pad layout)



ASE22R

ASE62G



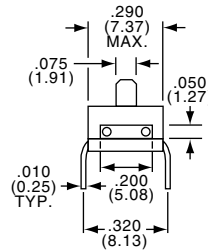
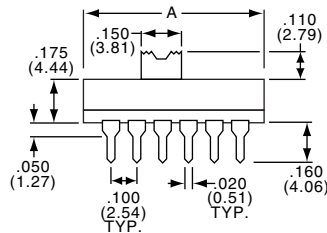
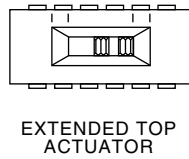
ASF22

ASF22R

**Flush side actuator “R” versions are supplied with open ended case and without tape seal.

Note: For SPDT requirements, order DPDT version and use either set of contacts for SPDT switching.

Slide Switches, Extended Actuator, Through Hole and Surface Mount

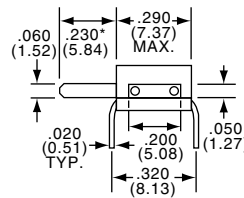
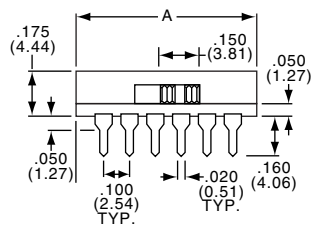
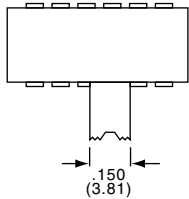


NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Upright, Through Hole, Extended Actuator

| Tyco Electronics | Alcoswitch | Type | Contact | Dim A |
|------------------|------------|------|---------|-----------|
| 1437581-2 | ASE22 | DPDT | Silver | .400/10.2 |
| 1437581-4 | ASE22G | DPDT | Gold | .400/10.2 |
| 1-1437581-4 | ASE42 | 4PDT | Silver | .700/17.8 |
| 1-1437581-6 | ASE42G | 4PDT | Gold | .700/17.8 |
| 2-1437581-5 | ASE43 | 4P3T | Silver | 1.10/27.9 |
| 2-1437581-6 | ASE43G | 4P3T | Gold | 1.10/27.9 |
| 3-1437581-1 | ASE62 | 6PDT | Silver | 1.00/25.4 |
| 3-1437581-3 | ASE62G | 6PDT | Gold | 1.00/25.4 |

EXTENDED SIDE ACTUATOR

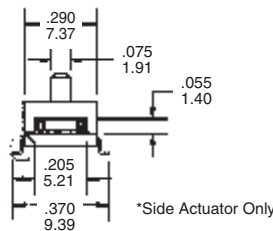
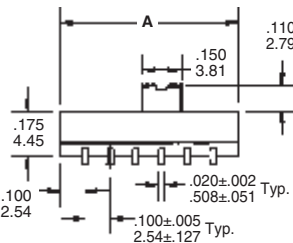
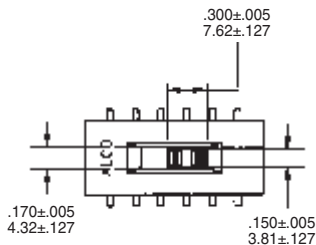


*.105 (2.67) ASE22R, ASE22RG

NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Right Angle, Through Hole, Extended Actuator

| Tyco Electronics | Alcoswitch | Type | Contact | Dim A |
|------------------|------------|------|---------|-----------|
| 1437581-8 | ASE22R | DPDT | Silver | .400/10.2 |
| 1437581-9 | ASE22RG | DPDT | Gold | .400/10.2 |
| 1-1437581-9 | ASE42R | 4PDT | Silver | .700/17.8 |
| 2-1437581-0 | ASE42RG | 4PDT | Gold | .700/17.8 |
| 2-1437581-9 | ASE43R | 4P3T | Silver | 1.10/27.9 |
| 3-1437581-0 | ASE43RG | 4P3T | Gold | 1.10/27.9 |
| 3-1437581-6 | ASE62R | 6PDT | Silver | 1.00/25.4 |
| 3-1437581-7 | ASE62RG | 6PDT | Gold | 1.00/25.4 |



L Type Surface Mount

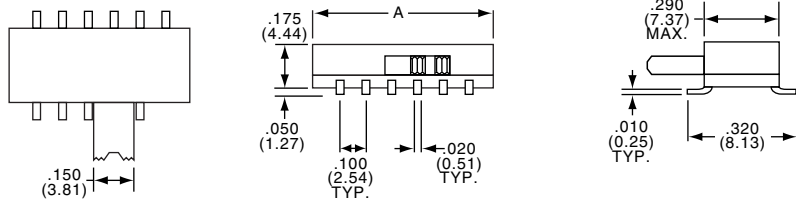
NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Upright, Surface Mount "L" Type, Extended Actuator

| Tyco Electronics | Alcoswitch | Type | Contact | Dim A |
|------------------|------------|------|---------|-----------|
| 1437581-5 | ASE22GL | DPDT | Gold | .400/10.2 |
| 1437581-7 | ASE22L | DPDT | Silver | .400/10.2 |
| 1-1437581-7 | ASE42GL | 4PDT | Gold | .700/17.8 |
| 1-1437581-8 | ASE42L | 4PDT | Silver | .700/17.8 |
| 2-1437581-7 | ASE43GL | 4P3T | Gold | 1.10/27.9 |
| 2-1437581-8 | ASE43L | 4P3T | Silver | 1.10/27.9 |
| 3-1437581-4 | ASE62GL | 6PDT | Gold | 1.00/25.4 |
| 3-1437581-5 | ASE62L | 6PDT | Silver | 1.00/25.4 |

Slide Switches, Extended Actuator, Through Hole and Surface Mount

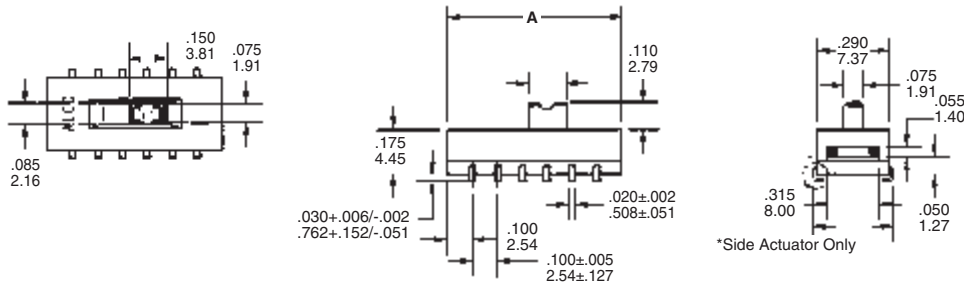
B
ASE/F Series



NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Right Angle, Surface Mount "L" Type, Extended Actuator

| Tyco Electronics | Alcoswitch | Type | Contact | Dim A |
|------------------|------------|------|---------|-----------|
| — | ASE22RGL | DPDT | Gold | .400/10.2 |
| 1-1437581-1 | ASE22RL | DPDT | Silver | .400/10.2 |
| 2-1437581-1 | ASE42RGL | 4PDT | Gold | .700/17.8 |
| 2-1437581-2 | ASE42RL | 4PDT | Silver | .700/17.8 |
| — | ASE43RGL | 4P3T | Gold | 1.10/27.9 |
| — | ASE43RL | 4P3T | Silver | 1.10/27.9 |
| 3-1437581-8 | ASE62RGL | 6PDT | Gold | 1.00/25.4 |
| 3-1437581-9 | ASE62RL | 6PDT | Silver | 1.00/25.4 |

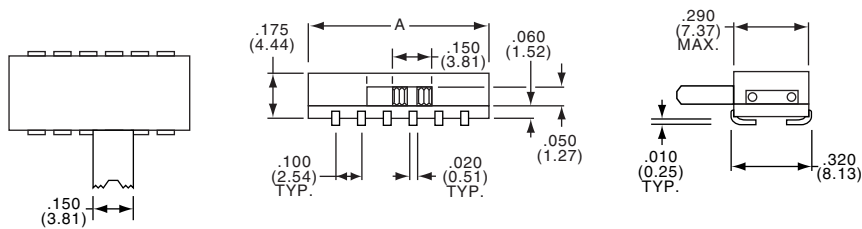


S Type Surface Mount

NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Upright, Surface Mount "S" Type, Extended Actuator

| Tyco Electronics | Alcoswitch | Type | Contact | Dim A |
|------------------|------------|------|---------|-----------|
| 1437581-6 | ASE22GS | DPDT | Gold | .400/10.2 |
| 1-1437581-3 | ASE22S | DPDT | Silver | .400/10.2 |
| — | ASE42GS | 4PDT | Gold | .700/17.8 |
| 2-1437581-4 | ASE42S | 4PDT | Silver | .700/17.8 |
| — | ASE43GS | 4P3T | Gold | 1.10/27.9 |
| — | ASE43S | 4P3T | Silver | 1.10/27.9 |
| — | ASE62GS | 6PDT | Gold | 1.00/25.4 |
| — | ASE62S | 6PDT | Silver | 1.00/25.4 |

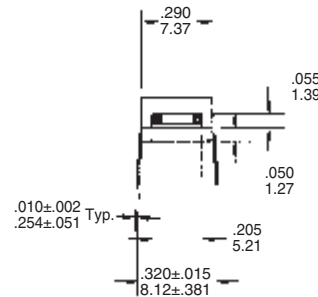
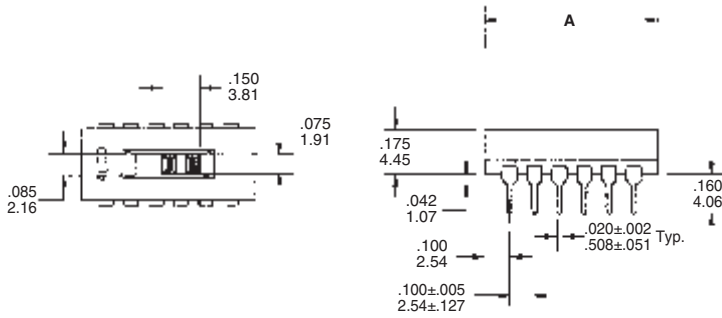


NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Right Angle, Surface Mount "S" Type, Extended Actuator

| Tyco Electronics | Alcoswitch | Type | Contact | Dim A |
|------------------|------------|------|---------|-----------|
| 1-1437581-0 | ASE22RGS | DPDT | Gold | .400/10.2 |
| 1-1437581-2 | ASE22RS | DPDT | Silver | .400/10.2 |
| — | ASE42RGS | 4PDT | Gold | .700/17.8 |
| 2-1437581-3 | ASE42RS | 4PDT | Silver | .700/17.8 |
| — | ASE43RGS | 4P3T | Gold | 1.10/27.9 |
| — | ASE43RS | 4P3T | Silver | 1.10/27.9 |
| — | ASE62RGS | 6PDT | Gold | 1.00/25.4 |
| — | ASE62RS | 6PDT | Silver | 1.00/25.4 |

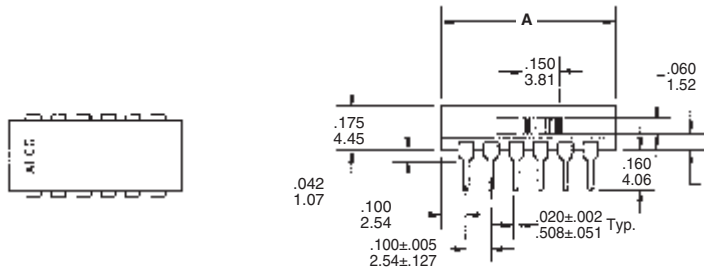
Slide Switches, Flush Actuator, Through Hole and Surface Mount



Upright, Through Hole, Flush Actuator

| Tyco Electronics | Alcoswitch | Type | Contact | Dim A |
|------------------|------------|------|---------|-----------|
| 5-1437581-6 | ASF22 | DPDT | Silver | .400/10.2 |
| 5-1437581-8 | ASF22G | DPDT | Gold | .400/10.2 |
| 6-1437581-8 | ASF42 | 4PDT | Silver | .700/17.8 |
| 7-1437581-0 | ASF42G | 4PDT | Gold | .700/17.8 |
| 7-1437581-8 | ASF43 | 4P3T | Silver | 1.10/27.9 |
| 7-1437581-9 | ASF43G | 4P3T | Gold | 1.10/27.9 |
| 8-1437581-4 | ASF62 | 6PDT | Silver | 1.00/25.4 |
| 8-1437581-6 | ASF62G | 6PDT | Gold | 1.00/25.4 |

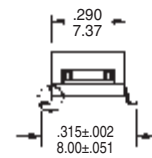
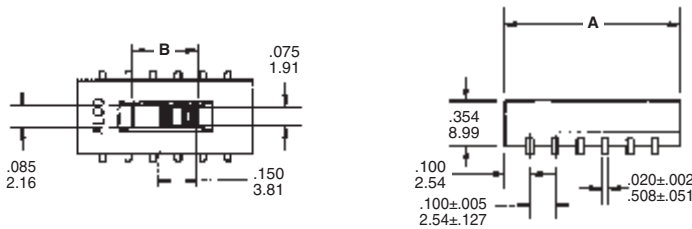
NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.



Right Angle, Through Hole, Flush Actuator

| Tyco Electronics | Alcoswitch | Type | Contact | Dim A |
|------------------|------------|------|---------|-----------|
| 6-1437581-2 | ASF22R | DPDT | Silver | .400/10.2 |
| 6-1437581-3 | ASF22RG | DPDT | Gold | .400/10.2 |
| 7-1437581-3 | ASF42R | 4PDT | Silver | .700/17.8 |
| 7-1437581-4 | ASF42RG | 4PDT | Gold | .700/17.8 |
| | ASF43R | 4P3T | Silver | 1.10/27.9 |
| 8-1437581-2 | ASF43RG | 4P3T | Gold | 1.10/27.9 |
| 8-1437581-9 | ASF62R | 6PDT | Silver | 1.00/25.4 |
| 9-1437581-1 | ASF62RG | 6PDT | Gold | 1.00/25.4 |

NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.



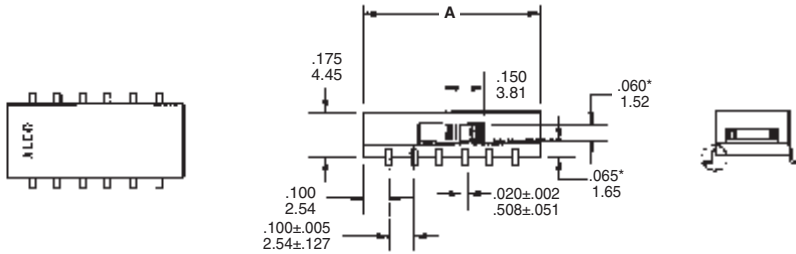
L Type Surface Mount

Upright, Surface Mount "L" Type, Flush Actuator

| Tyco Electronics | Alcoswitch | Type | Contact | Dim A |
|------------------|------------|------|---------|-----------|
| 5-1437581-9 | ASF22GL | DPDT | Gold | .400/10.2 |
| 6-1437581-1 | ASF22L | DPDT | Silver | .400/10.2 |
| 7-1437581-1 | ASF42GL | 4PDT | Gold | .700/17.8 |
| 7-1437581-2 | ASF42L | 4PDT | Silver | .700/17.8 |
| 8-1437581-0 | ASF43GL | 4P3T | Gold | 1.10/27.9 |
| 8-1437581-1 | ASF43L | 4P3T | Silver | 1.10/27.9 |
| 8-1437581-7 | ASF62GL | 6PDT | Gold | 1.00/25.4 |
| 8-1437581-8 | ASF62L | 6PDT | Silver | 1.00/25.4 |

NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Slide Switches, Flush Actuator, Through Hole and Surface Mount

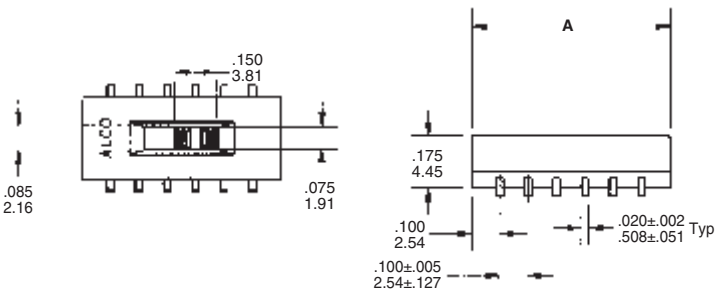


L Type Surface Mount

NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Right Angle, Surface Mount "L" Type, Flush Actuator

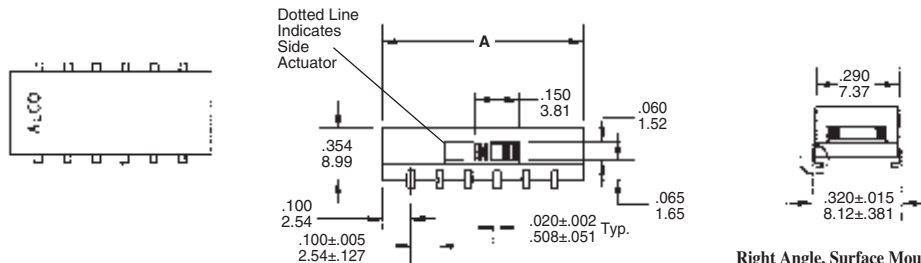
| Tyco Electronics | Alcoswitch | Type | Contact | Dim A |
|------------------|------------|------|---------|-----------|
| 6-1437581-4 | ASF22RGL | DPDT | Gold | .400/10.2 |
| — | ASF22RL | DPDT | Silver | .400/10.2 |
| 7-1437581-5 | ASF42RGL | 4PDT | Gold | .700/17.8 |
| 7-1437581-6 | ASF42RL | 4PDT | Silver | .700/17.8 |
| — | ASF43RGL | 4P3T | Gold | 1.10/27.9 |
| — | ASF43RL | 4P3T | Silver | 1.10/27.9 |
| 9-1437581-2 | ASF62RGL | 6PDT | Gold | 1.00/25.4 |
| — | ASF62RL | 6PDT | Silver | 1.00/25.4 |



NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Upright, Surface Mount "S" Type, Flush Actuator

| Tyco Electronics | Alcoswitch | Type | Contact | Dim A |
|------------------|------------|------|---------|-----------|
| 6-1437581-0 | ASF22GS | DPDT | Gold | .400/10.2 |
| 6-1437581-7 | ASF22S | DPDT | Silver | .400/10.2 |
| — | ASF42GS | 4PDT | Gold | .700/17.8 |
| 7-1437581-7 | ASF42S | 4PDT | Silver | .700/17.8 |
| — | ASF43GS | 4P3T | Gold | 1.10/27.9 |
| 8-1437581-3 | ASF43S | 4P3T | Silver | 1.10/27.9 |
| — | ASF62GS | 6PDT | Gold | 1.00/25.4 |
| 9-1437581-4 | ASF62S | 6PDT | Silver | 1.00/25.4 |



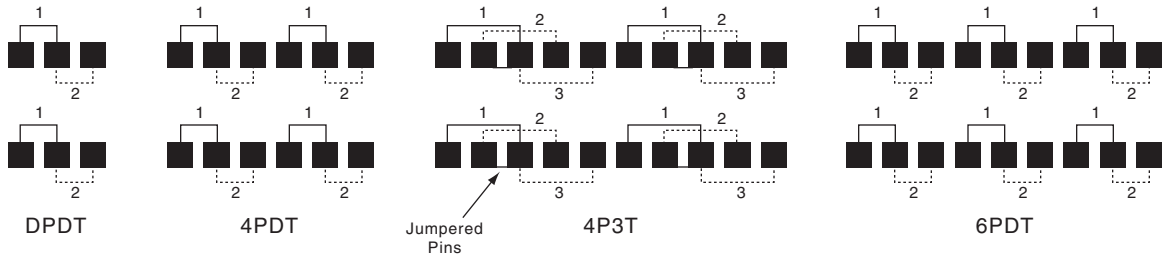
NOTE: See Page B10 for Circuit Diagram and Recommended PC Board Layout.

Right Angle, Surface Mount "S" Type, Flush Actuator

| Tyco Electronics | Alcoswitch | Type | Contact | Dim A |
|------------------|------------|------|---------|-----------|
| 6-1437581-5 | ASF22RGS | DPDT | Gold | .400/10.2 |
| 6-1437581-6 | ASF22RS | DPDT | Silver | .400/10.2 |
| — | ASF42RGS | 4PDT | Gold | .700/17.8 |
| — | ASF42RS | 4PDT | Silver | .700/17.8 |
| — | ASF43RGS | 4P3T | Gold | 1.10/27.9 |
| — | ASF43RS | 4P3T | Silver | 1.10/27.9 |
| 9-1437581-3 | ASF62RGS | 6PDT | Gold | 1.00/25.4 |
| — | ASF62RS | 6PDT | Silver | 1.00/25.4 |

Slide Switches, Auto-insertable, Through Hole and Surface Mount

CIRCUIT DIAGRAMS

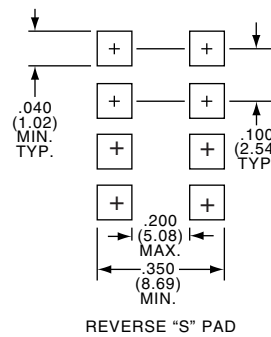
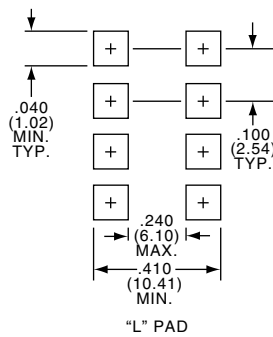


NOTE: For SPDT requirements order DPDT version and use either set of contacts for SPDT switching.

PC LAYOUT



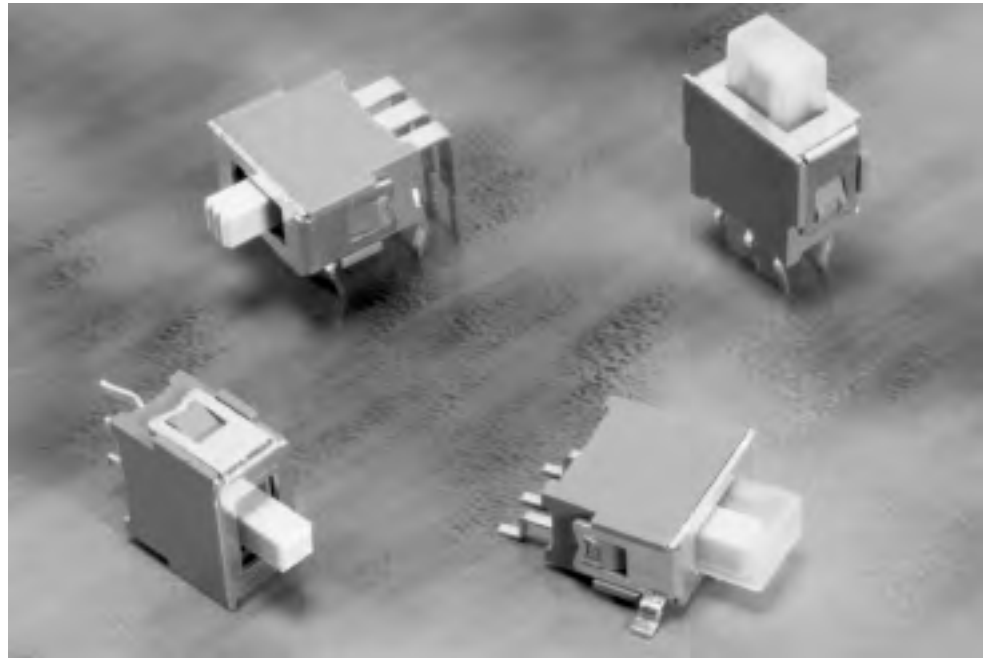
PAD LAYOUT



S Series Unsealed, SE Series Sealed, Through-Hole and Surface Mount

Product Facts

- Sealed or Unsealed
- Straight or Right-Angle
- Through-hole or Surface-mount
- Bulk or Tape-and-Reel packaged
- Compact size
- Double-pole function in a single-pole body
- PC retention feature
- High reliability contact system
- Epoxy sealed base
- Robust actuator for easy actuation
- Non-shorting (break-before-make)



Switch, Slide, Surface Mount - SE1 SMT (Shown w/Boot)

Electrical Characteristics

Contact rating: .4 VA @ 20 VDC Max.
50mA 48V AC/DC
Min. 1 micro A 20 mV AC/DC

Initial Contact Resistance: less than 50 milliohms

Final Contact Resistance: 100 milliohms max.

Insulation Resistance: 500 Megaohms @ 250 VDC

Dielectric Strength: 500 VAC between terminals and ground

Mechanical

Mechanical Life: Up to 10,000 cycles @ max. load

Actuation Force: 70 to 500 grams

Materials and Finish

Terminals: Tin-lead over nickel-plated phosphor bronze

Contacts: Gold over nickel plated phosphor bronze

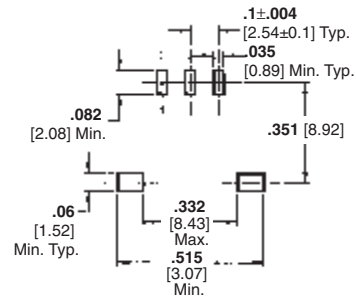
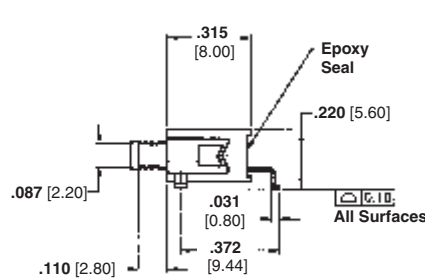
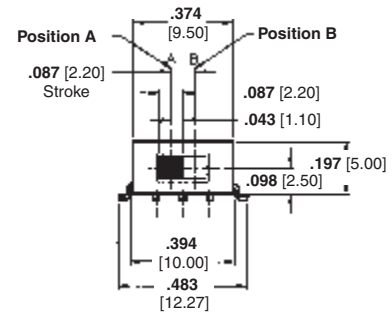
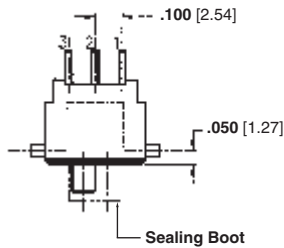
Frame: Tin over nickel plated brass

Case, Actuator, Plunger, Terminal Board: UL 94V-0 glass-filled Polyamide

Actuator Boot: Silicon Rubber

Standards & Specs

Sealed switch per IP 67



Recommended P.C.B. Pad Layout

SMT-Sealed Part Numbers

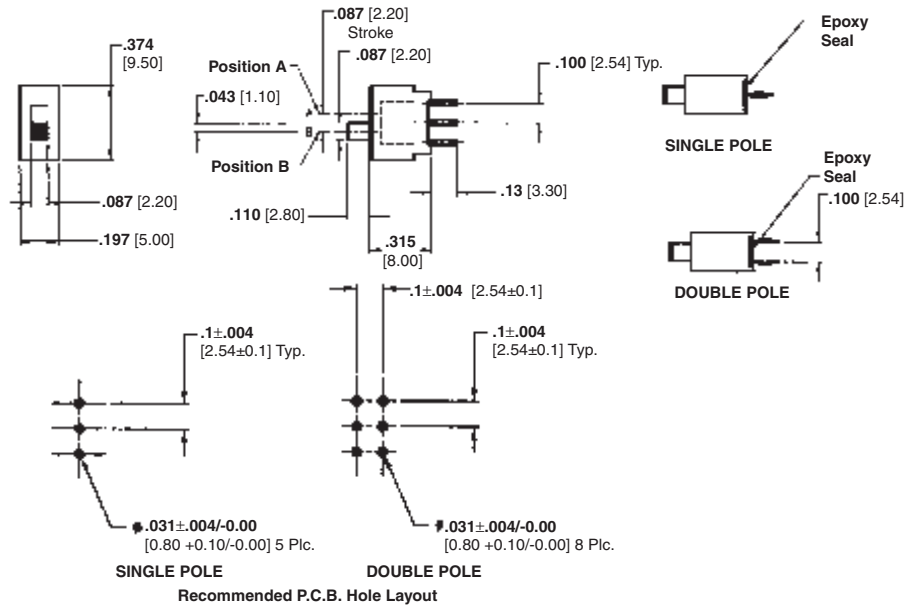
| Tyco Electronics | Alcoswitch | Function |
|------------------|------------|------------|
| 1571004-1 | SE1GSMT | On-Off |
| 1571004-2 | SE1EGSMT | On-Off-On |
| 1571004-3 | SE1DGSMT | On-None-On |

Tape & Reel Package

| Tyco Electronics | Alcoswitch | Function |
|------------------|------------|------------|
| 1571004-4 | SE1GSMTTR | On-Off |
| 1571004-5 | SE1EGSMTTR | On-Off-On |
| 1571004-6 | SE1DGSMTTR | On-None-On |

B
S/SE Series

Switch, Slide, PC Tail, S/SE GPC (Shown w/o Boot)



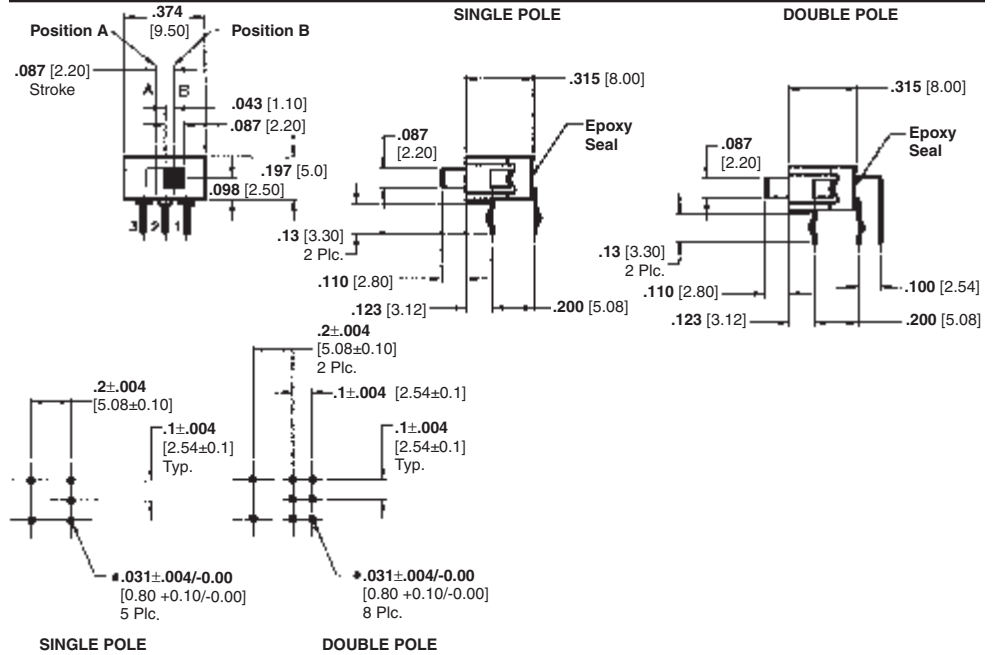
Sealed Part Numbers w/Boot

| Tyco Electronics | Alcoswitch | Function |
|------------------|------------|------------|
| 1437574-9 | SE1DGPC | On-None-On |
| 1-1437574-4 | SE1EGPC | On-Off-On |
| 1-1437574-6 | SE2DGPC | On-None-On |
| 2-1437574-0 | SE2EGPC | On-Off-On |

Unsealed Part Numbers w/o Boot

| Tyco Electronics | Alcoswitch | Function |
|------------------|------------|------------|
| 1571005-1 | S1DGPC | On-None-On |
| 1571005-2 | S1EGPC | On-Off-On |
| 1571005-3 | S2DGPC | On-None-On |
| 1571005-4 | S2EGPC | On-Off-On |

Switch, Slide, Right Angle, S/SE GRA (Shown w/o Boot)



Sealed Part Numbers w/Boot

| Tyco Electronics | Alcoswitch | Function |
|------------------|------------|------------|
| 1-1437574-1 | SE1DGRA | On-None-On |
| 1-1437574-5 | SE1EGRA | On-Off-On |
| 1-1437574-8 | SE2DGRA | On-None-On |
| 2-1437574-1 | SE2EGRA | On-Off-On |

Unsealed Part Numbers w/o Boot

| Tyco Electronics | Alcoswitch | Function |
|------------------|------------|------------|
| 1571006-1 | S1DGRA | On-None-On |
| 1571006-2 | S1EGRA | On-Off-On |
| 1571006-3 | S2DGRA | On-None-On |
| 1571006-4 | S2EGRA | On-Off-On |

Slide Switches, Miniature, Low Profile, Economy Grade

MATERIAL SPECIFICATIONS:

ContactsSilver clad copper alloy
 Case MaterialSteel zinc plated
 Actuator MaterialPolyester (UL 94HB)
 Terminal SealEpoxy
 Terminals/Fixed ContactsSilver plate copper alloy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature..... -5°F to 140°F (-15°C to +60°C)
 Storage Temperature.....-4°F to +158°F (-20°C to +70°C)
 Solder Heat ResistanceMIL-STD-202, Method 210

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating300 mA @ 125 VAC
 Initial Contact Resistance20 Milliohms max.
 Contact TimingMake-before-break
 Insulation Resistance100 Megohms min. @ 500 VDC
 Dielectric Strength500 VAC
 Actuation Force250 Grams, +150 Grams, -100 Grams
 Actuator Travel.....0.098" (2.49)
 Life ExpectancyUp to 10,000 Cycles

NOTICE: Bifurcated contact produces double wiping, self-cleaning contacts.

P. C. HOLE LAYOUT

| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 5-1437577-8 | STS121PC | Silver | Upright |

SPDT

STS121PC

P. C. HOLE LAYOUT

| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 5-1437577-9 | STS121RA | Silver | Right Angle |

SPDT

STS121RA

P. C. HOLE LAYOUT

| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 6-1437577-2 | STS131PC | Silver | Upright |

SP3T

STS131PC

P. C. HOLE LAYOUT

| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 6-1437577-3 | STS131RA | Silver | Right Angle |

SP3T

STS131RA

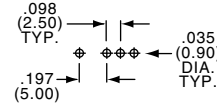
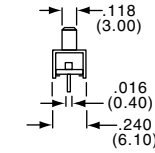
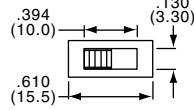
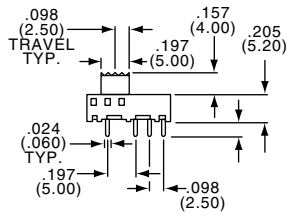
Slide Switches, Miniature, Low Profile, Economy Grade

SEE PAGE B13 FOR PRODUCT SPECIFICATIONS

SP3T



STS1300PC

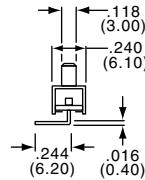
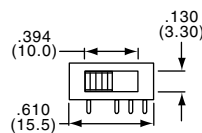


P. C. HOLE LAYOUT

SP3T



STS1300RA

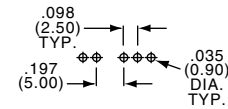
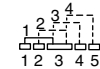
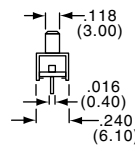
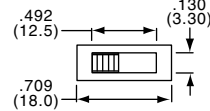
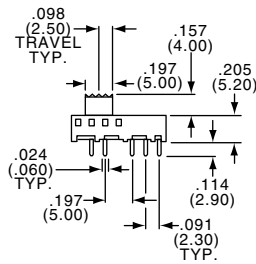


| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 6-1437577-0 | STS1300PC | Silver | Upright |
| 6-1437577-1 | STS1300RA | Silver | Right Angle |

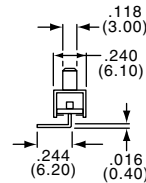
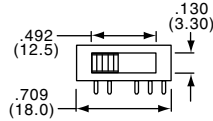
SP4T



STS1400PC



P. C. HOLE LAYOUT

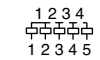
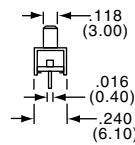
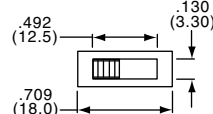
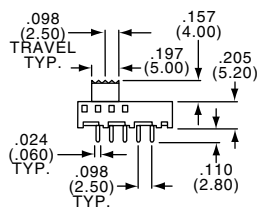


| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 6-1437577-5 | STS1400PC | Silver | Upright |
| 6-1437577-6 | STS1400RA | Silver | Right Angle |

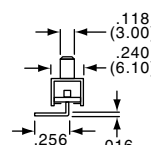
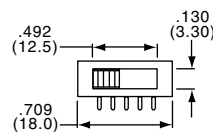
SP4T



STS141RA



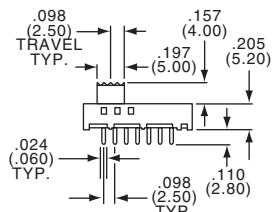
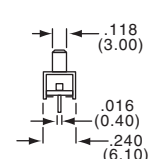
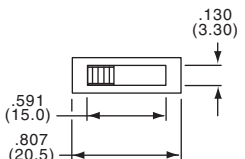
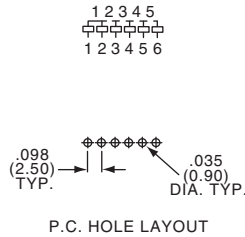
P. C. HOLE LAYOUT



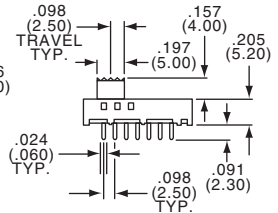
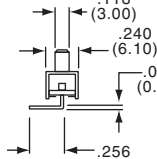
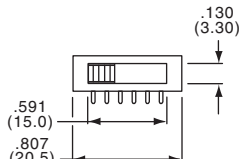
| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 6-1437577-7 | STS141PC | Silver | Upright |
| 6-1437577-8 | STS141RA | Silver | Right Angle |

Slide Switches, Miniature, Low Profile, Economy Grade

SEE PAGE B13 FOR PRODUCT SPECIFICATIONS

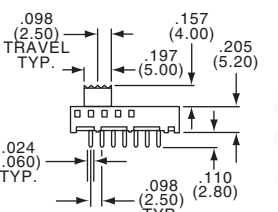
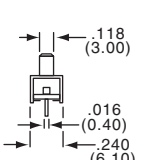
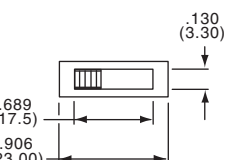
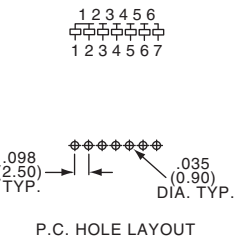


STS151PC

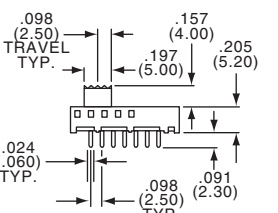
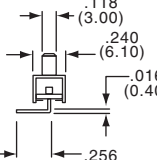
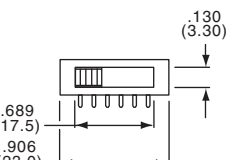


STS151RA

| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 6-1437577-9 | STS151PC | Silver | Upright |
| 7-1437577-0 | STS151RA | Silver | Right Angle |

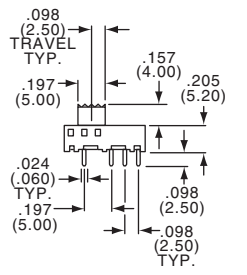
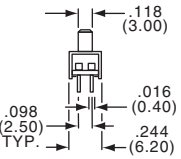
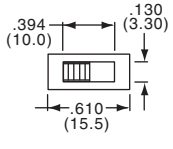
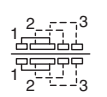
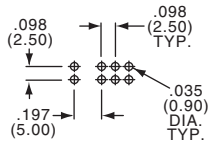


STS161PC

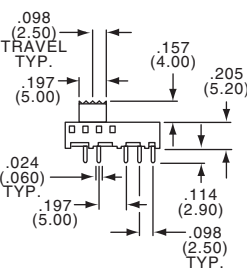
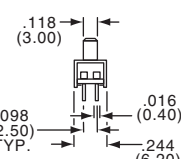
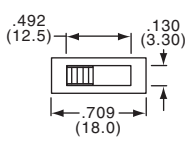
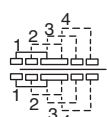
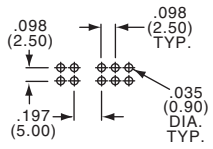


STS161RA

| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 7-1437577-1 | STS161PC | Silver | Upright |
| 7-1437577-2 | STS161RA | Silver | Right Angle |



STS2300PC



STS2400PC

| Part Number | | | | |
|------------------|------------|---------|----------------|---------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style | |
| 7-1437577-4 | STS2300PC | DP3T | Silver | Upright |
| 7-1437577-6 | STS2400PC | DP4T | Silver | Upright |

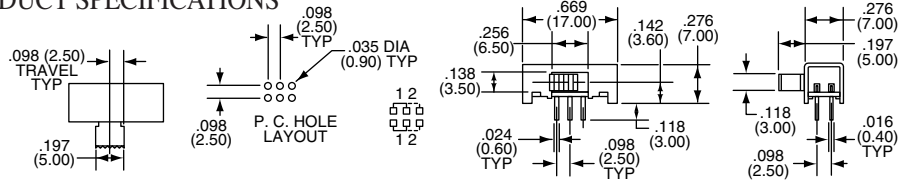
Slide Switches, Miniature, Low Profile, Economy Grade

SEE PAGE B13 FOR PRODUCT SPECIFICATIONS

DPDT



STSA220RA

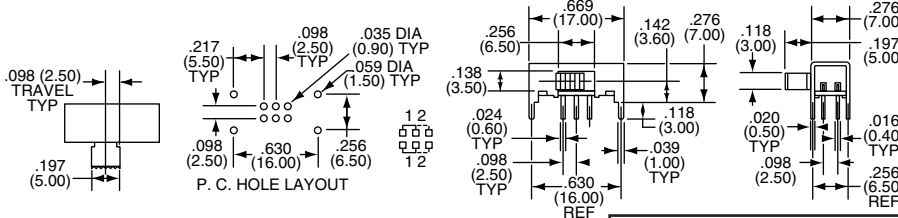


| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 8-1437577-0 | STSA220RA | Silver | Right Angle |

DPDT



STSA220RA1

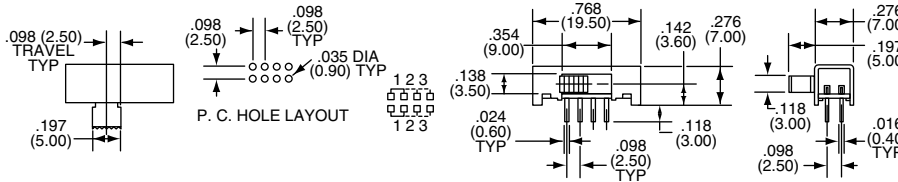


| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 8-1437577-1 | STSA220RA1 | Silver | Right Angle |

DP3T



STSA230RA

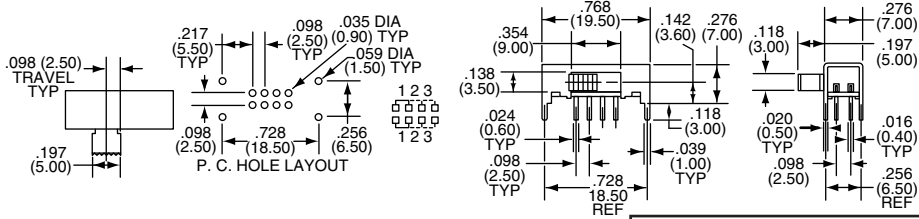


| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 8-1437577-2 | STSA230RA | Silver | Right Angle |

DP3T



STSA230RA1

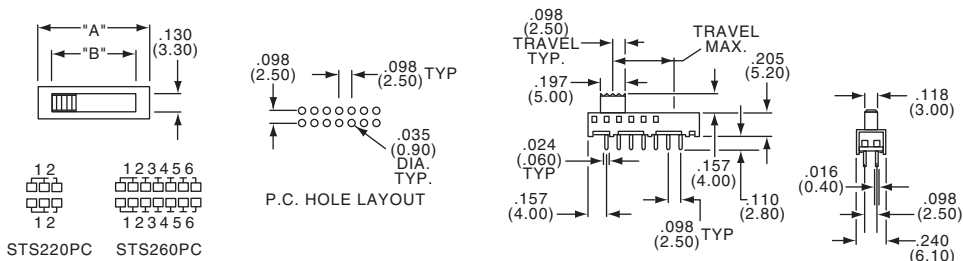


| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 8-1437577-3 | STSA230RA1 | Silver | Right Angle |

DP6T/DP5T/DP4T/
DP3T/DP2T



STS220PC



| Part Number | | | | | | Part Number | | | | | | | |
|------------------|------------|------|------------|------------|-------------|-------------|------------------|------------|------|------------|------------|-------------|-----------|
| Tyco Electronics | Alcoswitch | Type | Dim.A | Dim.B | Travel Max. | Pin Holes | Tyco Electronics | Alcoswitch | Type | Dim.A | Dim.B | Travel Max. | Pin Holes |
| 7-1437577-3 | STS220PC | DP2T | .512(13.0) | .295(7.50) | .098(2.50) | 6 | 7-1437577-8 | STS250PC | DP5T | .807(20.5) | .591(15.0) | .394(10.0) | 12 |
| 7-1437577-5 | STS230PC | DP3T | .610(15.5) | .394(10.0) | .197(5.00) | 8 | 7-1437577-9 | STS260PC | DP6T | .906(23.0) | .689(17.5) | .492(12.5) | 14 |
| 7-1437577-7 | STS240PC | DP4T | .709(18.0) | .492(12.5) | .295(7.50) | 10 | | | | | | | |

B STS/STSA Series

Slide Switches, Instrument Grade, Decorative

MATERIAL SPECIFICATIONS:

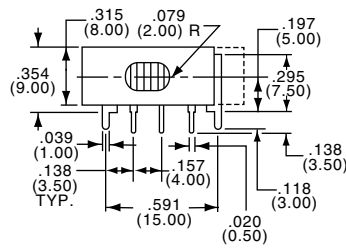
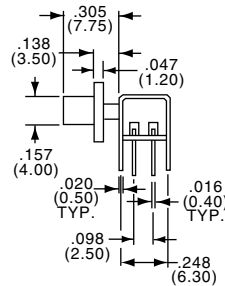
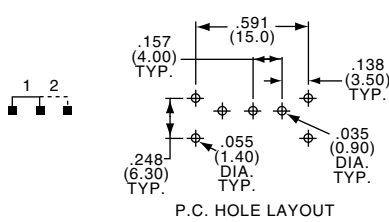
ContactsSilver clad copper alloy
 Case MaterialSteel, tin plated
 Actuator MaterialPolycarbonate
 Terminals/Fixed ContactsSilver over nickel
 Terminal SealEpoxy

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating300 mA @ 125 VAC
 Initial Contact Resistance20 Milliohms max.
 Insulation Resistance1,000 Megohms min. @ 500 VDC
 Dielectric Strength500 VAC
 Actuation Force0.250 Grams, +200/-150
 Plunger/Actuator Travel0.079" (2.01)
 Life ExpectancyUp to 10,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

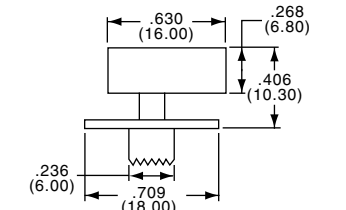
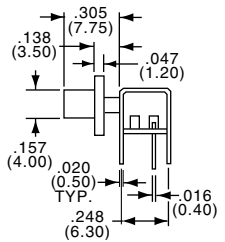
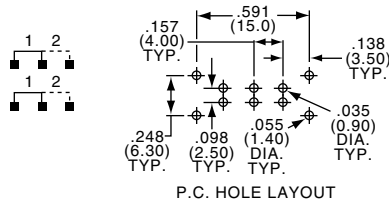
Operating Temperature.....-14°F to +140°F (-10°C to +60°C)
 Storage Temperature.....-14°F to +140°F (-10°C to +60°C)
 Solder Heat Resistance.....MIL-STD-202, Method 210



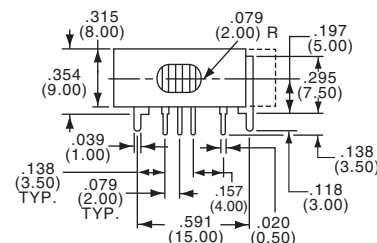
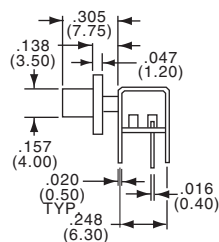
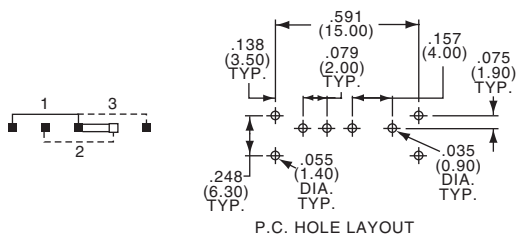
SPDT/DPDT



SDS2240RA0



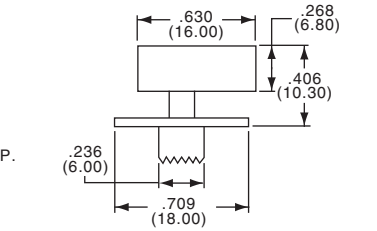
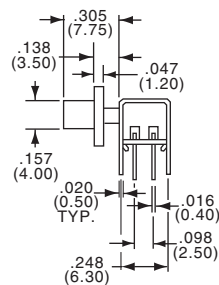
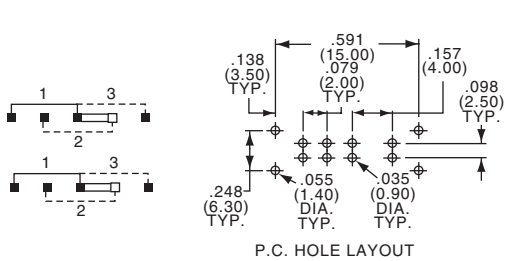
| Part Number | | | | Part Number | | | |
|------------------|------------|------|----------------|------------------|------------|------|----------------|
| Tyco Electronics | Alcoswitch | Type | Actuator Color | Tyco Electronics | Alcoswitch | Type | Actuator Color |
| 1437577-2 | SDS1240RA0 | SPDT | Black | 1437577-6 | SDS2240RA0 | DPDT | Black |
| 1437577-3 | SDS1240RA8 | SPDT | Gray | — | SDS2240RA8 | DPDT | Gray |



SP3T/DP3T



SDS1340RA8



| Part Number | | | | Part Number | | | |
|------------------|------------|------|----------------|------------------|------------|------|----------------|
| Tyco Electronics | Alcoswitch | Type | Actuator Color | Tyco Electronics | Alcoswitch | Type | Actuator Color |
| 1437577-4 | SDS1340RA0 | SP3T | Black | 1437577-7 | SDS2340RA0 | DP3T | Black |
| 1437577-5 | SDS1340RA8 | SP3T | Gray | — | SDS2340RA8 | DP3T | Gray |

Slide Switches, Vertical, Single or Dual Actuator

MATERIAL SPECIFICATIONS:

ContactsCopper w/gold plate over nickel
 Case MaterialHigh temperature polyester (94-VO)
 Actuator MaterialPolyester (94-VO)
 TerminalsCopper alloy tin/lead/nickel or gold/nickel
 Terminal SealEpoxy standard: single pole, optional: double pole

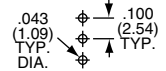
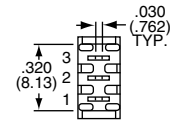
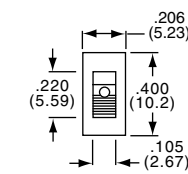
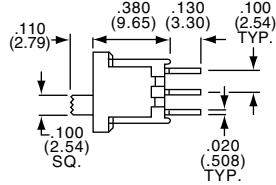
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact RatingGold: 0.4 VA max. @ 20 VDC or peak AC
 Initial Contact Resistance20 Milliohms max.
 Contact TimingNon-shorting
 Insulation Resistance1,000 Megohms min. @ 500 VDC
 Dielectric Strength1,000 Volts RMS @ sea level
 Plunger/Actuator Travel0.120" (3.05)
 Life ExpectancyUp to 60,000-80,000 Cycles

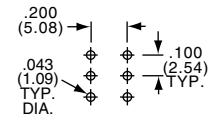
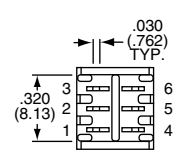
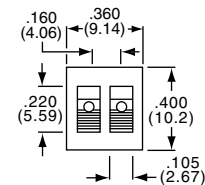
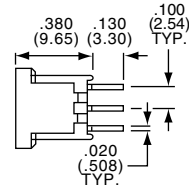
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4°F to + 176°F (-20°C to + 80°C)
 Storage Temperature-4°F to + 176°F (-20°C to + 80°C)

SPST/SPDT



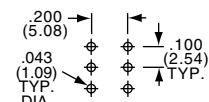
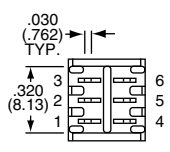
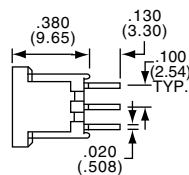
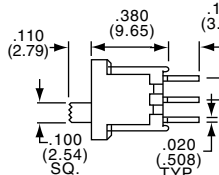
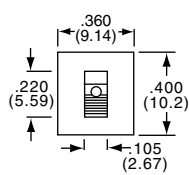
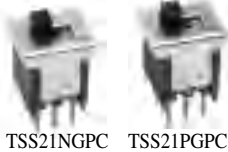
SPST/SPDT (DUAL)



| Extended Actuator Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | On | None | Off | Extended Dual Actuator Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | On | None | Off |
|------------------------------------|------------|------|-----------------|----|------|-----|---|-------------|----------|-----------------|----|------|-----|
| 1437578-3 | TSS11AGPC | SPST | A | On | None | Off | — | TSD21AAGPC | 2 x SPST | A | On | None | Off |
| 1-1437589-0 | TSS11DGPC | SPDT | D | On | None | On | 1437579-5 | TSD21DDGPC | 2 x SPDT | D | On | None | On |
| 1-1437579-4 | TSS11EGPC | SPDT | E | On | Off | On | Flush Dual Actuator | | | | | | |
| — | TSS11AG1PC | SPST | A | On | None | Off | — | TSD21DDG1PC | 2 x SPDT | D | On | None | On |
| 1437579-8 | TSS11DG1PC | SPDT | D | On | None | On | | | | | | | |
| 1-1437579-2 | TSS11EG1PC | SPDT | E | On | Off | On | | | | | | | |

Note: No center terminals on "A" action switches.

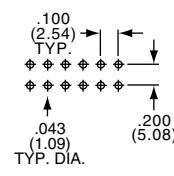
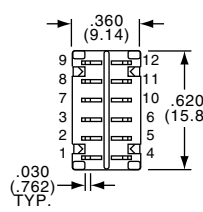
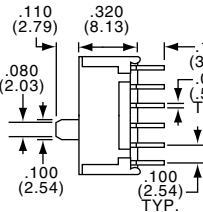
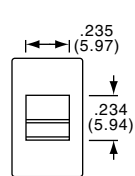
DPST/DPDT



| Extended Actuator Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | On | None | Off | Flush Actuator Tyco Electronics | Alcoswitch | Act. Code Type | P. M6 | On | None | Off |
|------------------------------------|------------|------|-----------------|----|------|-----|---------------------------------|------------|----------------|-------|----|------|-----|
| 1-1437579-6 | TSS21KGPC | DPST | K | On | None | Off | — | TSS21KG1PC | DPST | K | On | None | Off |
| 1-1437579-9 | TSS21NGPC | DPDT | N | On | None | On | 1-1437579-7 | TSS21NG1PC | DPDT | N | On | None | On |
| 2-1437579-3 | TSS21PGPC | DPDT | P | On | Off | On | 2-1437579-1 | TSD21RG1PC | DPDT | P | On | Off | On |

Note: No center terminals on "K" action switches.

4PDT

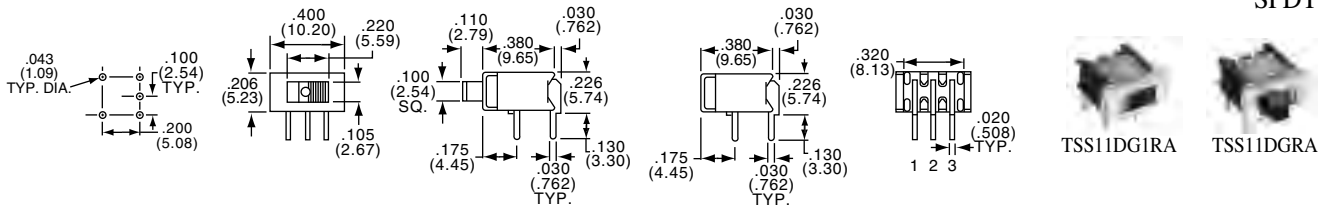


| Extended Actuator Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | On | None | Off |
|------------------------------------|------------|------|-----------------|----|------|-----|
| 2-1437579-5 | TSS41NGPC | 4PDT | N | On | None | On |

Slide Switches, Right Angle, Single or Dual Actuator

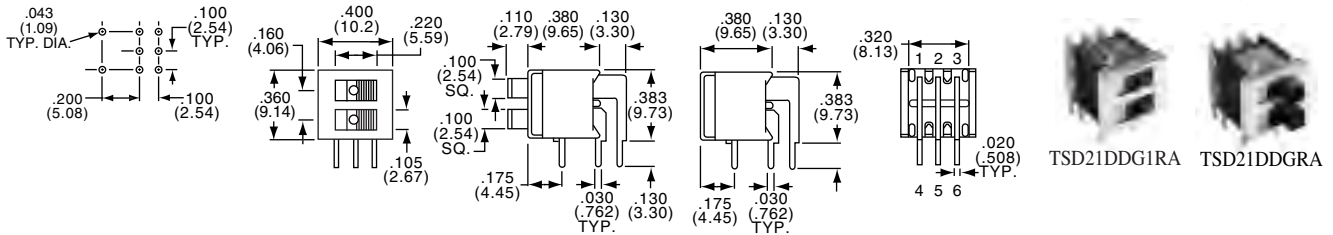
SEE PAGE B18 FOR PRODUCT SPECIFICATIONS

SPDT



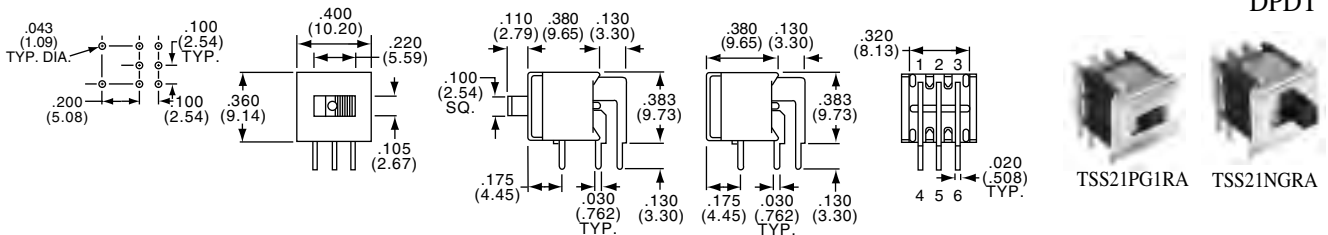
| Extended Actuator | | | Act. Code | | | Flush Actuator | | | Act. Code | | | |
|-------------------|------------|------|-----------|----|------|------------------|------------|------|-----------|----|------|----|
| Tyco Electronics | Alcoswitch | Type | P. M6 | On | None | Tyco Electronics | Alcoswitch | Type | P. M6 | On | None | On |
| 1-1437579-1 | TSS11DGRA | SPDT | D | On | None | 1437579-9 | TSS11DG1RA | SPDT | D | On | None | On |
| 1-1437579-5 | TSS11EGRA | SPDT | E | On | Off | 1-1437579-3 | TSS11EG1RA | SPDT | E | On | Off | On |

SPDT (DUAL)



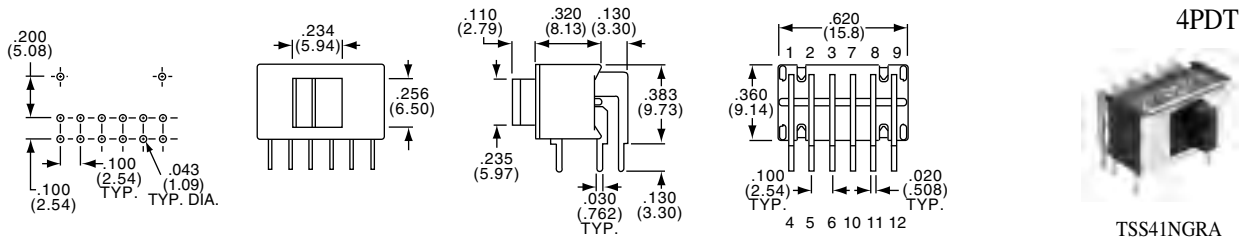
| Extended Actuator | | | Act. Code | | | Flush Actuator | | | Act. Code | | | |
|-------------------|------------|----------|-----------|----|------|------------------|-------------|----------|-----------|----|------|----|
| Tyco Electronics | Alcoswitch | Type | P. M6 | On | None | Tyco Electronics | Alcoswitch | Type | P. M6 | On | None | On |
| 1437579-6 | TSD21DDGRA | 2 x SPDT | D | On | None | 1437579-4 | TSD21DDG1RA | 2 x SPDT | D | On | None | On |
| 1437579-7 | TSD21EEGRA | 2 x SPDT | E | On | Off | — | TSD21EEG1RA | 2 x SPDT | E | On | Off | On |

DPDT



| Extended Actuator | | | Act. Code | | | Flush Actuator | | | Act. Code | | | |
|-------------------|------------|------|-----------|----|------|------------------|------------|------|-----------|----|------|----|
| Tyco Electronics | Alcoswitch | Type | P. M6 | On | None | Tyco Electronics | Alcoswitch | Type | P. M6 | On | None | On |
| — | TSS21PAGRA | SP3T | PA | On | On | — | TSS21NG1RA | DPDT | N | On | None | On |
| 2-1437579-0 | TSS21NGRA | DPDT | N | On | None | — | TSS21PG1RA | DPDT | P | On | Off | On |
| 2-1437579-4 | TSS21PGRA | DPDT | P | On | Off | — | — | — | — | — | — | — |

4PDT



| Extended Actuator | | | Act. Code | | | |
|-------------------|------------|------|-----------|----|------|----|
| Tyco Electronics | Alcoswitch | Type | P. M6 | On | None | On |
| 2-1437579-7 | TSS41NGRA | 4PDT | N | On | None | On |

Slide Switches, Instrumentation Grade

MATERIAL SPECIFICATIONS:

ContactsGold or silver over nickel/copper alloy
 Frame MaterialTin plated steel
 Terminals/Fixed Contacts.....Gold or silver over nickel/over copper alloy
 Terminal SealEpoxy
 Actuator MaterialPOM-UL94HB

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-40°F to +212°F (-40°C to +100°C)
 Solder Heat ResistanceSee page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

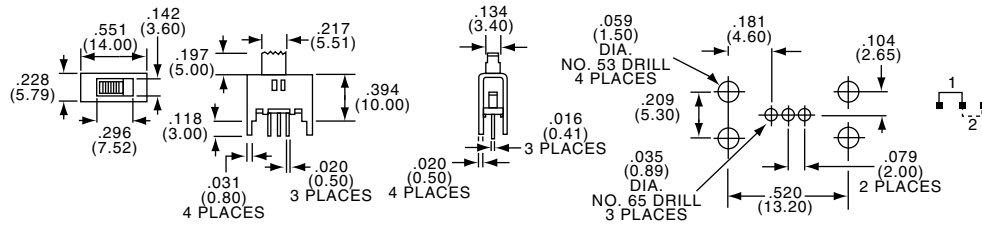
Contact RatingGold: 0.4 VA 20 VDC or peak AC
 Silver: 300 mA @ 125 VAC
 Initial Contact Resistance20 Milliohms max.
 Contact TimingMake before break
 Insulation Resistance1,000 Megohms min.
 Dielectric Strength500 VAC
 Actuation Force100 to 600 Grams
 Life ExpectancyUp to 15,000 Cycles
 Travel0.079" (2.01) (unless otherwise specified)

B
MSS Series

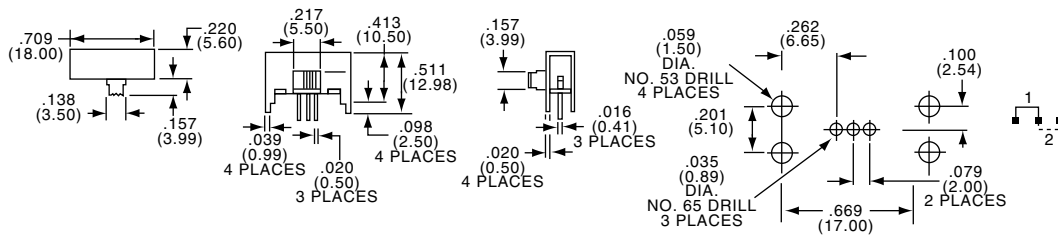
SPDT



MSS1200



MSS1200R

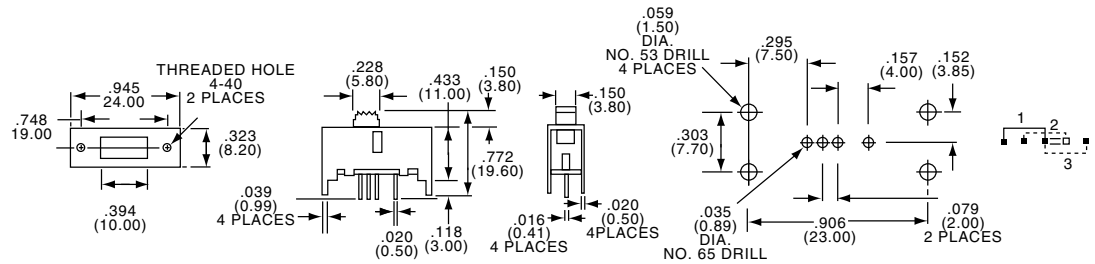


| Tyco Electronics | Alcoswitch | Plating | Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|------------------|------------|---------|
| 5-1437576-0 | MSS1200 | Silver | 5-1437576-2 | MSS1200R | Silver |
| 5-1437576-1 | MSS1200G | Gold | 5-1437576-3 | MSS1200RG | Gold |

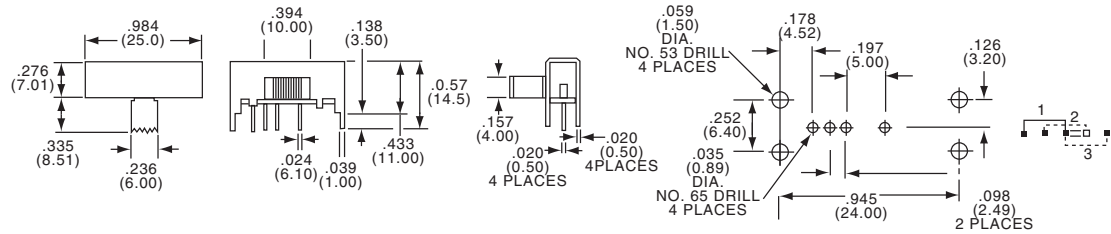
SP3T



MSS1300



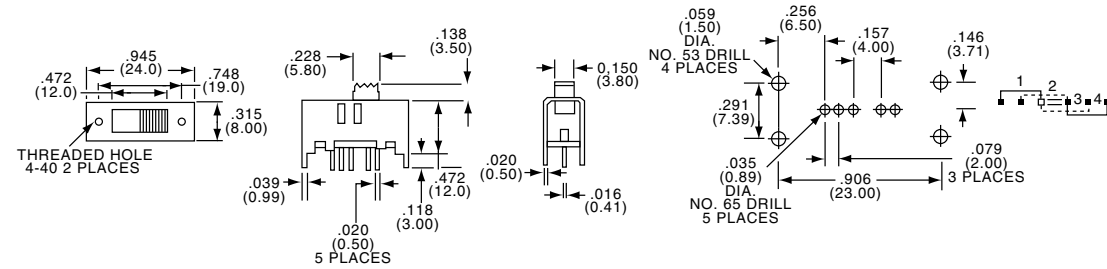
MSS1300R



| Tyco Electronics | Alcoswitch | Plating | Tyco Electronics | Alcoswitch | Plating | Total Actuator Travel |
|------------------|------------|---------|------------------|------------|---------|-----------------------|
| 5-1437576-4 | MSS1300 | Silver | 5-1437576-6 | MSS1300R | Silver | .098(2.50) |
| 5-1437576-5 | MSS1300G | Gold | 5-1437576-7 | MSS1300RG | Gold | .098(2.50) |

Slide Switches, Instrumentation Grade

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS

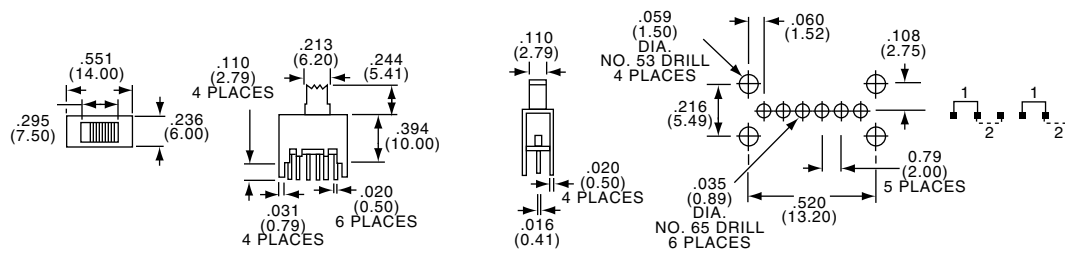


SP4T



MSS1400

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 5-1437576-8 | MSS1400 | Silver |
| 1571423-1 | MSS1400G | Gold |

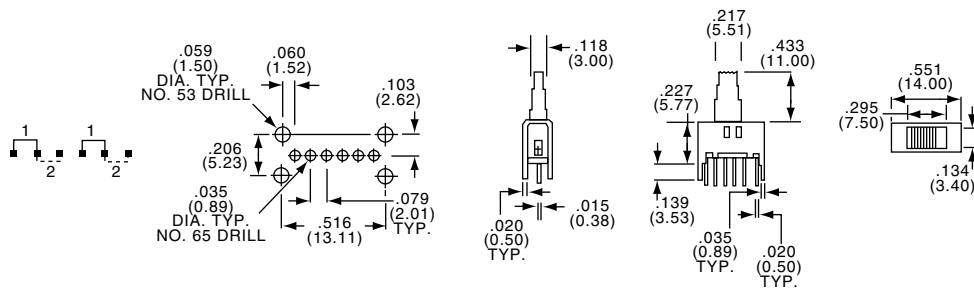


DPDT



MSS2225

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 6-1437576-3 | MSS2225 | Silver |
| 6-1437576-4 | MSS2225G | Gold |



DPDT



MSS2250

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 6-1437576-5 | MSS2250 | Silver |
| 6-1437576-6 | MSS2250G | Gold |

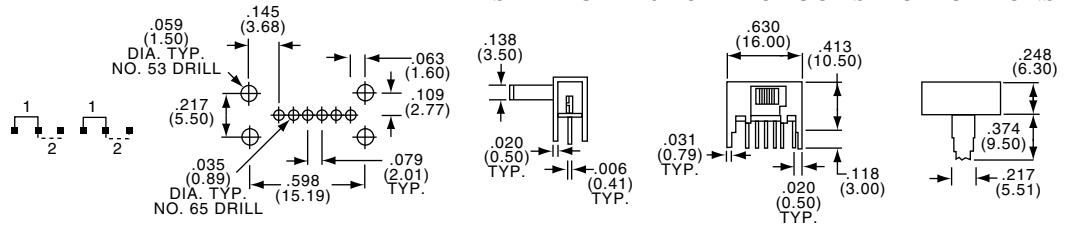
Slide Switches, Instrumentation Grade

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS

DPDT



MSS2250R

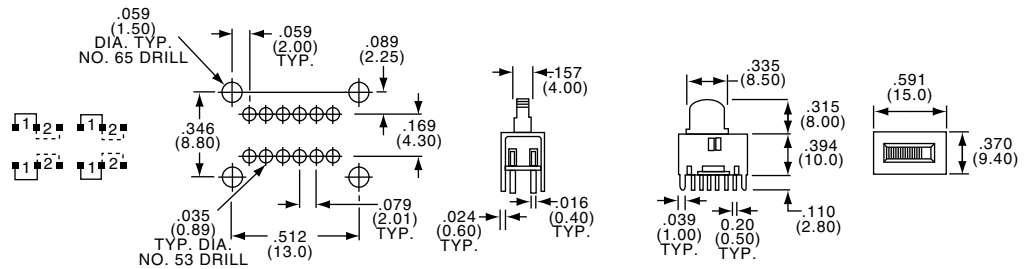


| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 6-1437576-7 | MSS2250R | Silver |
| 6-1437576-8 | MSS2250RG | Gold |

4PDT



MSS4200

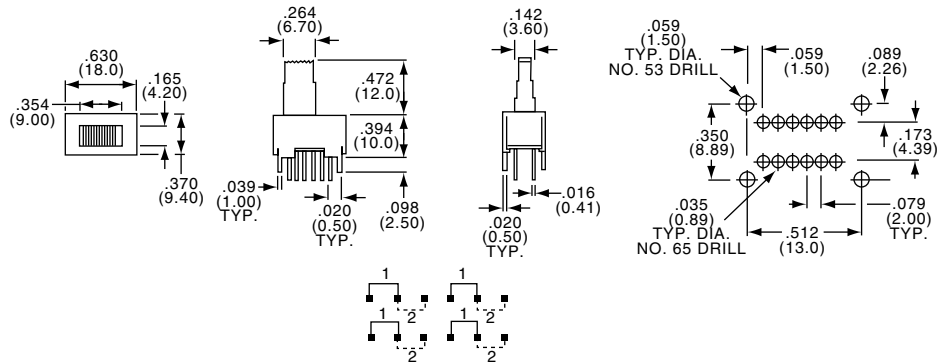


| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 6-1437576-9 | MSS4200 | Silver |
| 7-1437576-0 | MSS4200G | Gold |

4PDT



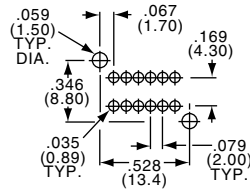
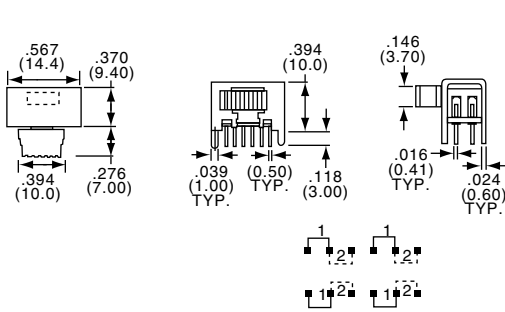
MSS4250



| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 7-1437576-4 | MSS4250 | Silver |

Slide Switches, Instrumentation Grade

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS

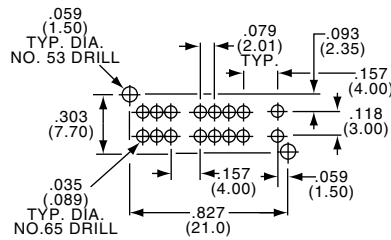
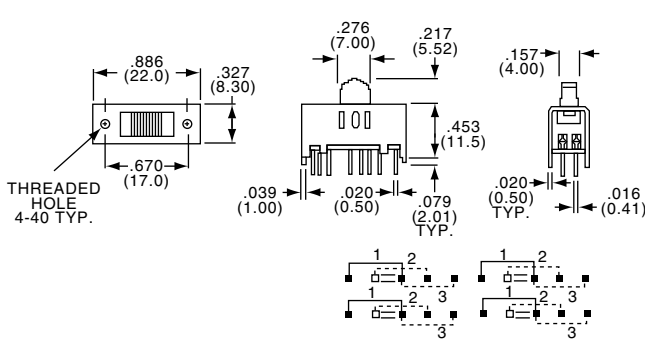


4PDT



MSS4200R

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 7-1437576-2 | MSS4200R | Silver |
| 7-1437576-3 | MSS4200RG | Gold |

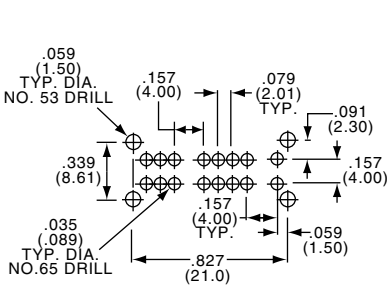
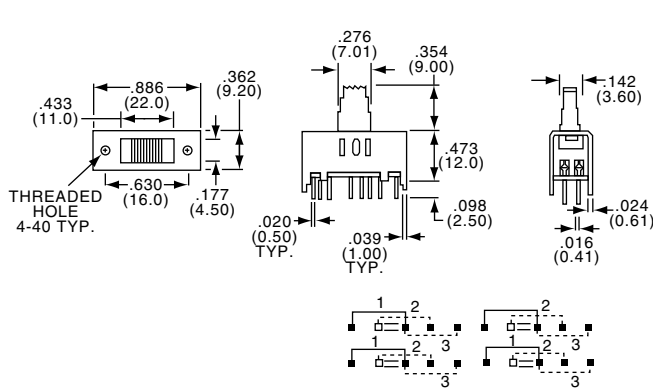


4P3T



MSS4300

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 7-1437576-5 | MSS4300 | Silver |
| 7-1437576-6 | MSS4300G | Gold |



4P3T



MSS4335

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 7-1437576-9 | MSS4335 | Silver |

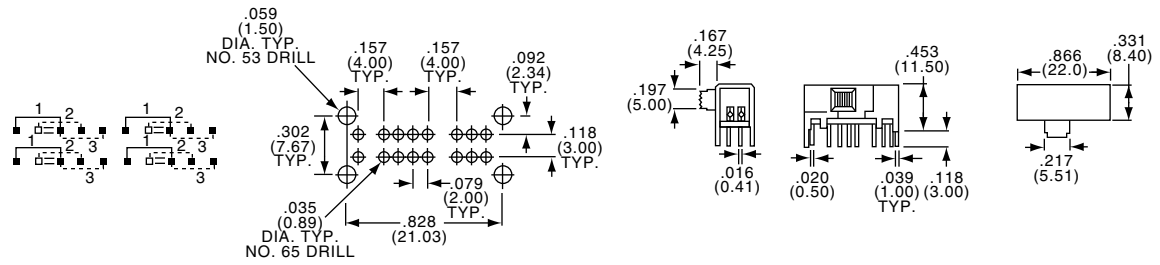
Slide Switches, Instrumentation Grade

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS

4P3T



MSS4300R

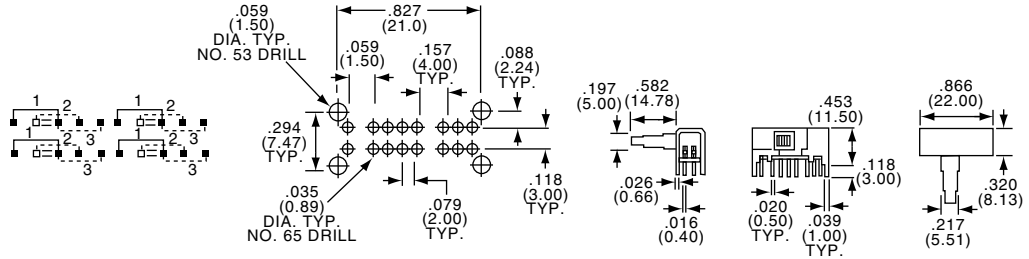


| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 7-1437576-7 | MSS4300R | Silver |
| 7-1437576-8 | MSS4300RG | Gold |

4P3T



MSS4350R

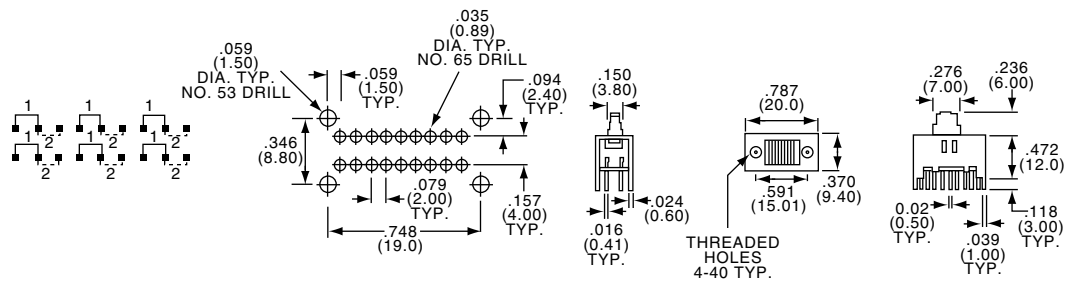


| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 8-1437576-0 | MSS4350R | Silver |
| 8-1437576-1 | MSS4350RG | Gold |

6PDT



MSS6200

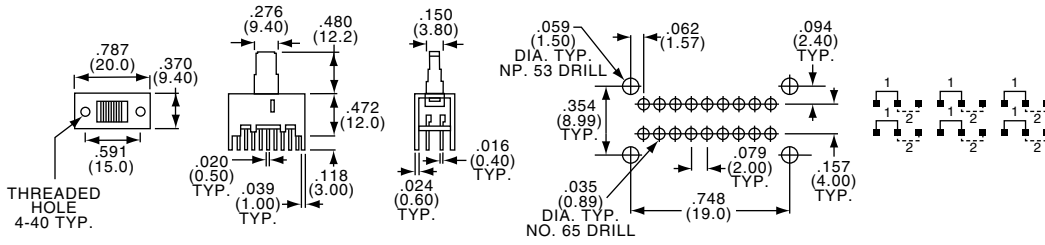


| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 8-1437576-8 | MSS6200 | Silver |
| 8-1437576-9 | MSS6200G | Gold |

B
MSS Series

Slide Switches, Instrumentation Grade

SEE PAGE B20 FOR PRODUCT SPECIFICATIONS

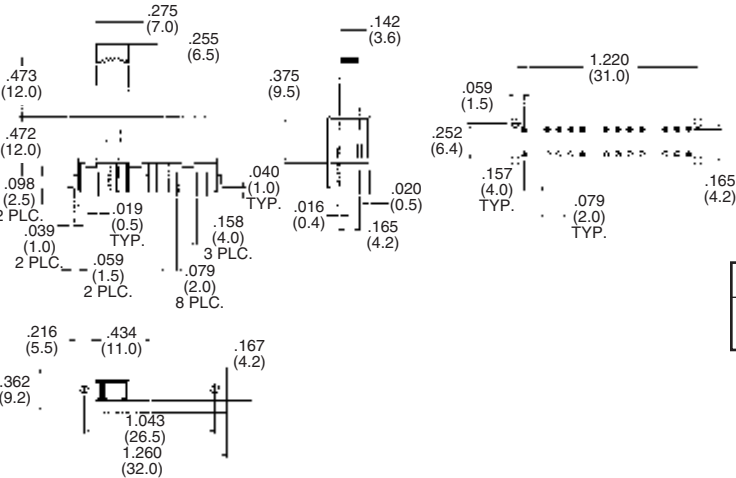


6PDT

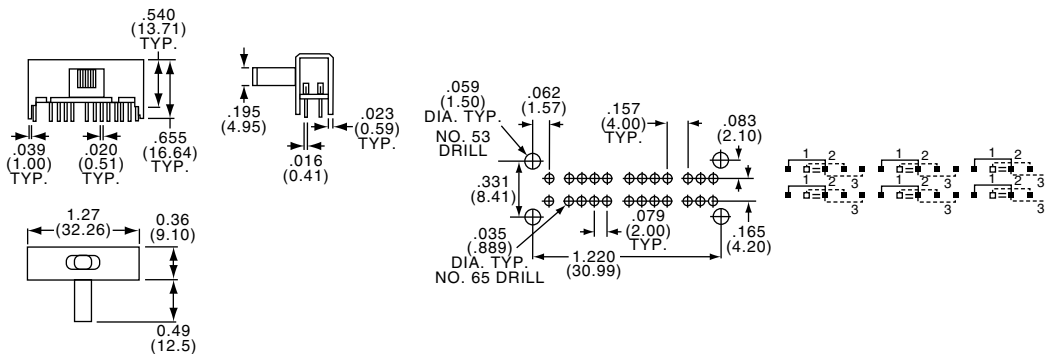


MSS6250

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 9-1437576-0 | MSS6250 | Silver |



| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 9-1437576-3 | MSS6350 | Silver |
| — | MSS6350G | Gold |



6P3T



MSS6350R

| Tyco Electronics | Alcoswitch | Plating |
|------------------|------------|---------|
| 9-1437576-4 | MSS6350R | Silver |
| — | MSS6350RG | Gold |

Slide Switches, Instrumentation Grade

MATERIAL SPECIFICATIONS:

ContactsSilver or gold over copper alloy
 Case MaterialCold rolled steel
 Actuator MaterialPolyester UL94V-0
 Terminals/Fixed Contacts.....Gold or silver plate over copper alloy
 Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-40°F to +212°F (-40°C to +100°C)
 Solder Heat Resistance.....See page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

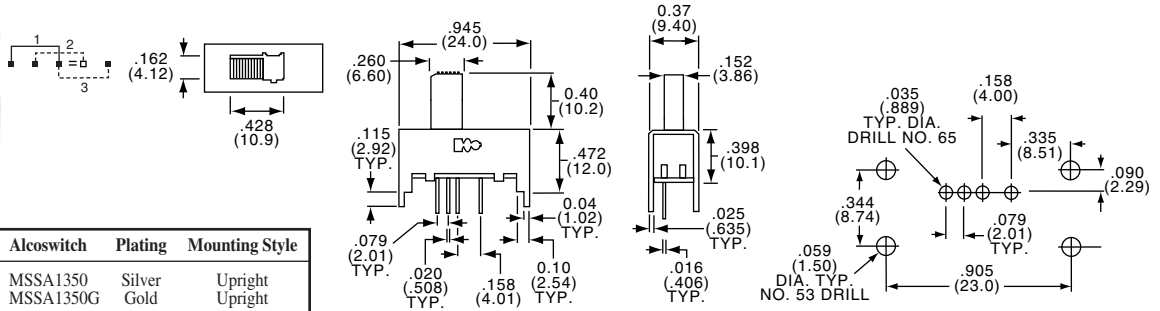
Contact RatingGold: 0.4 VA 20 VDC or peak AC
 Silver: 300 mA @ 125 VAC
 Initial Contact Resistance30 Milliohms max.
 Contact Timing.....Make before break
 Insulation Resistance1,000 Megohms min.
 Dielectric Strength500 Volts RMS @ sea level
 Actuation Force600±300/470 Grams average
 Actuator Travel.....0.079" (2.01) approximate
 Life ExpectancyUp to 15,000 Cycles

B
MSSA Series

SP3T



MSSA1350

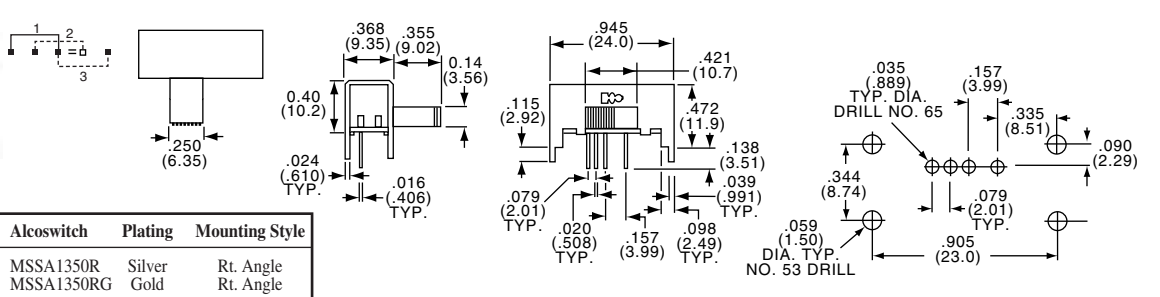


| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 3-1437580-3 | MSSA1350 | Silver | Upright |
| 3-1437580-4 | MSSA1350G | Gold | Upright |

SP3T



MSSA1350R

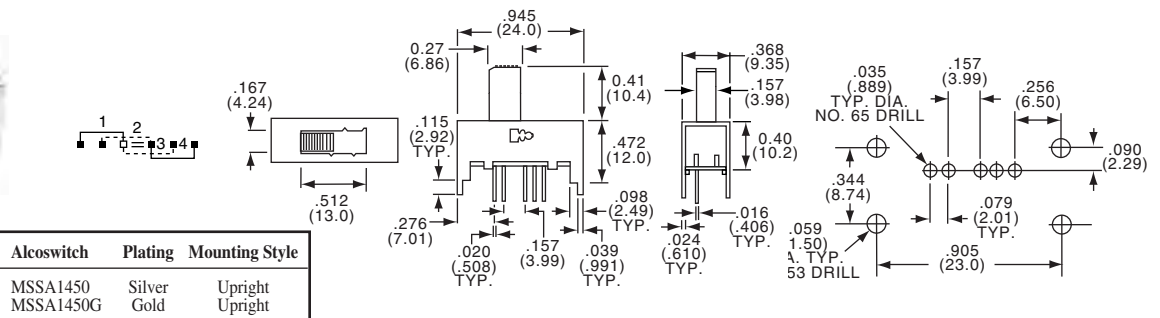


| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 3-1437580-5 | MSSA1350R | Silver | Rt. Angle |
| 3-1437580-6 | MSSA1350RG | Gold | Rt. Angle |

SP4T



MSSA1450

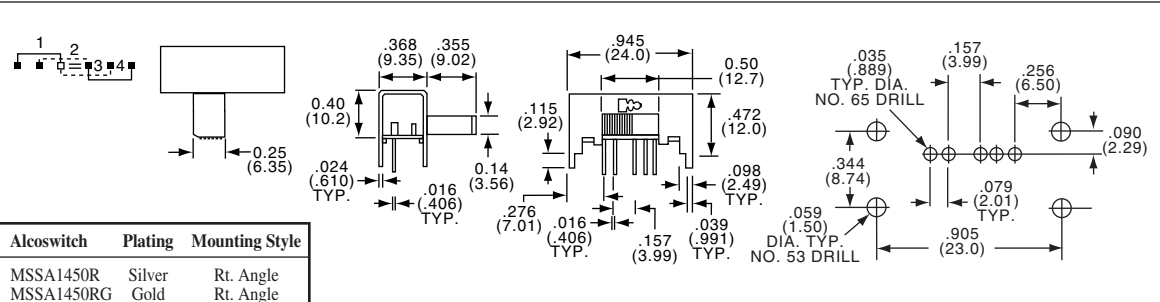


| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 3-1437580-7 | MSSA1450 | Silver | Upright |
| 3-1437580-8 | MSSA1450G | Gold | Upright |

SP4T



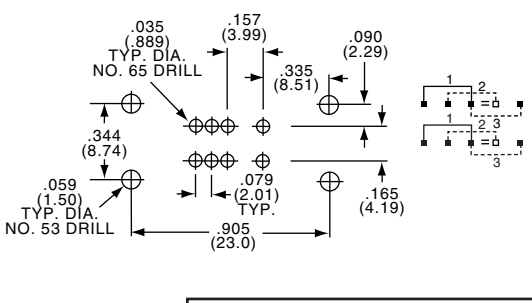
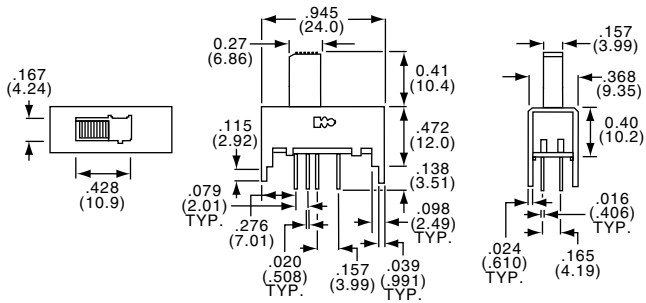
MSSA1450R



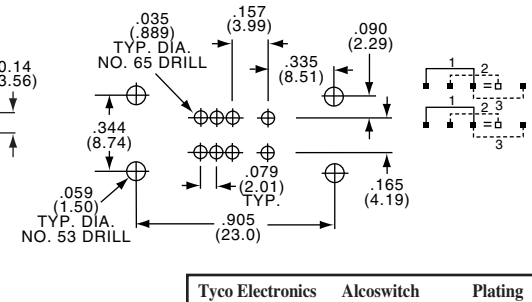
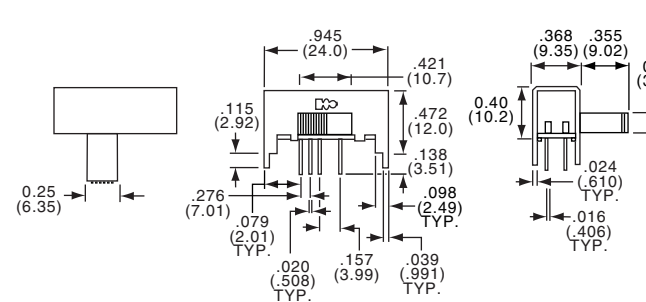
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 3-1437580-9 | MSSA1450R | Silver | Rt. Angle |
| 4-1437580-0 | MSSA1450RG | Gold | Rt. Angle |

Slide Switches, Instrumentation Grade

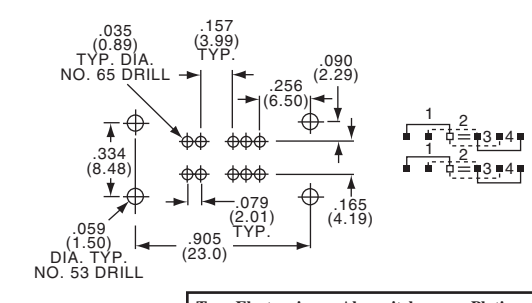
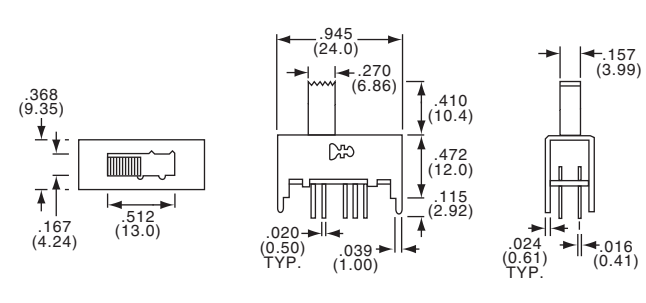
SEE PAGE B26 FOR PRODUCT SPECIFICATIONS



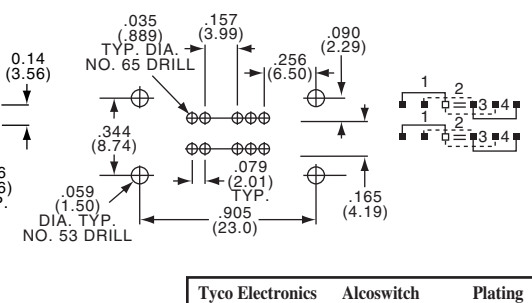
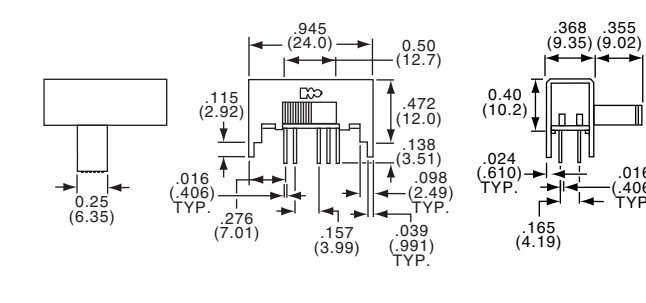
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 5-1437580-3 | MSSA2350 | Silver | Upright |
| 5-1437580-4 | MSSA2350G | Gold | Upright |



| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 5-1437580-5 | MSSA2350R | Silver | Rt. Angle |
| 5-1437580-6 | MSSA2350RG | Gold | Rt. Angle |



| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 5-1437580-7 | MSSA2450 | Silver | Upright |
| 5-1437580-8 | MSSA2450G | Gold | Upright |



| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 5-1437580-9 | MSSA2450R | Silver | Rt. Angle |
| 6-1437580-0 | MSSA2450RG | Gold | Rt. Angle |

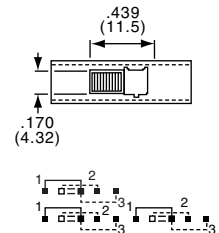
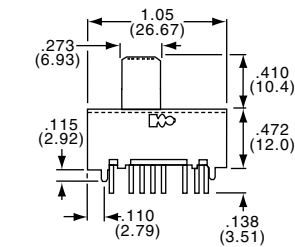
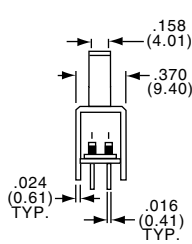
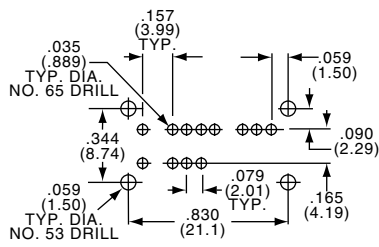
Slide Switches, Instrumentation Grade

SEE PAGE B26 FOR PRODUCT SPECIFICATIONS

3P3T



MSSA3350

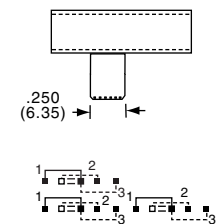
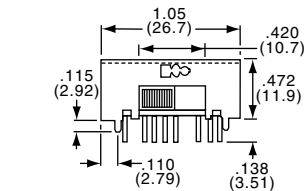
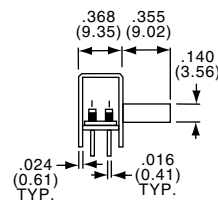
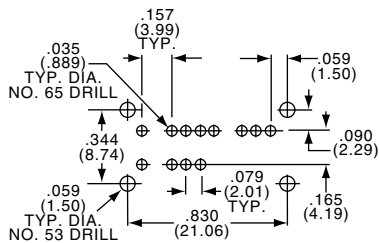


| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 6-1437580-1 | MSSA3350 | Silver | Upright |
| 6-1437580-2 | MSSA3350G | Gold | Upright |

3P3T



MSSA3350R

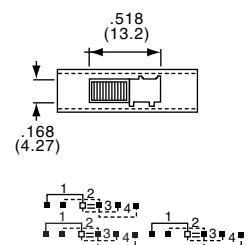
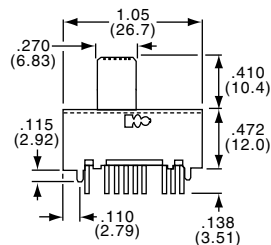
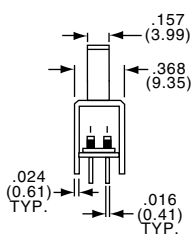
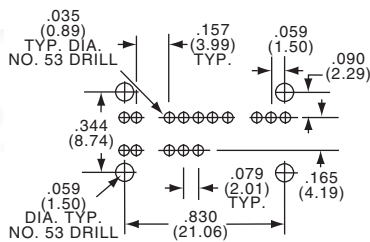


| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 6-1437580-3 | MSSA3350R | Silver | Rt. Angle |
| 6-1437580-4 | MSSA3350RG | Gold | Rt. Angle |

3P4T



MSSA3450

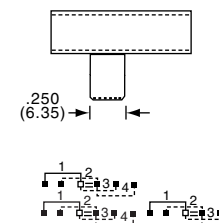
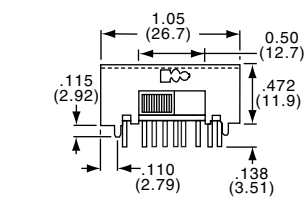
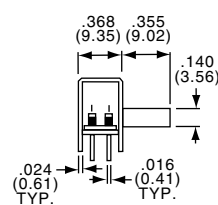
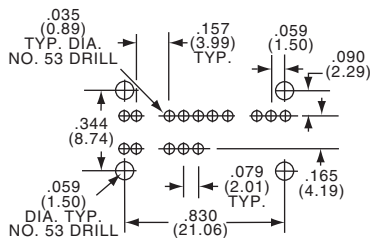


| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 6-1437580-5 | MSSA3450 | Silver | Upright |
| 6-1437580-6 | MSSA3450G | Gold | Upright |

3P4T



MSSA3450R

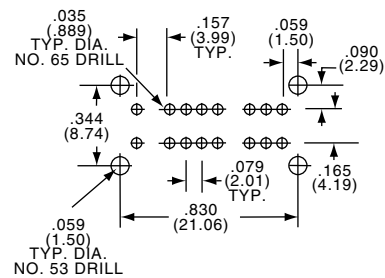
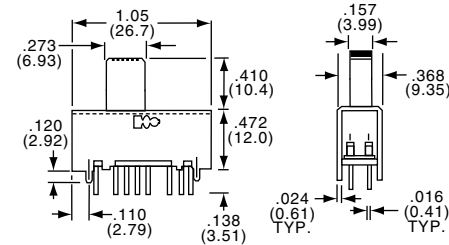
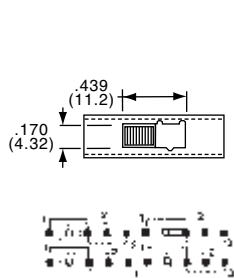


| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 6-1437580-7 | MSSA3450R | Silver | Rt. Angle |
| 6-1437580-8 | MSSA3450RG | Gold | Rt. Angle |

Slide Switches, Instrumentation Grade

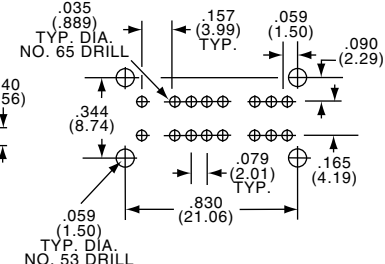
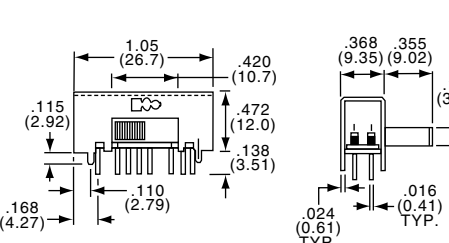
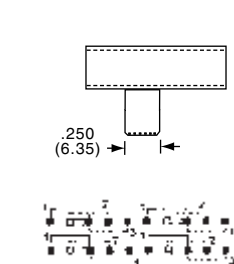
SEE PAGE B26 FOR PRODUCT SPECIFICATIONS

4P3T



MSSA4350

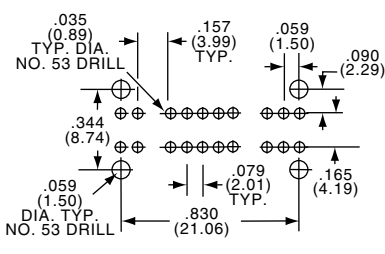
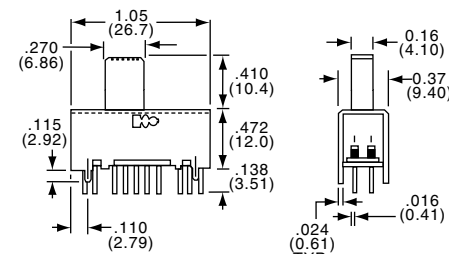
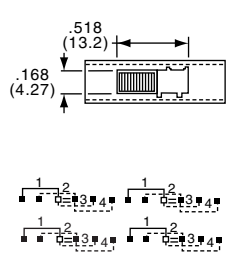
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 6-1437580-9 | MSSA4350 | Silver | Upright |
| 7-1437580-0 | MSSA4350G | Gold | Upright |



MSSA4350R

| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 7-1437580-1 | MSSA4350R | Silver | Rt. Angle |
| 7-1437580-2 | MSSA4350RG | Gold | Rt. Angle |

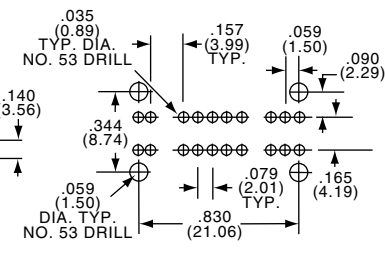
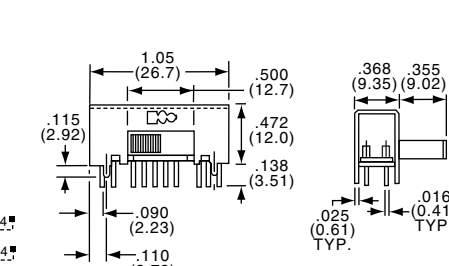
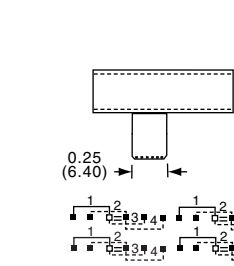
4P3T



MSSA4450

| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 7-1437580-3 | MSSA4450 | Silver | Upright |
| 7-1437580-4 | MSSA4450G | Gold | Upright |

4P4T



MSSA4450R

| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
|------------------|------------|---------|----------------|
| 7-1437580-5 | MSSA4450R | Silver | Rt. Angle |
| 7-1437580-6 | MSSA4450RG | Gold | Rt. Angle |

Slide Switches, Instrumentation Grade, .200 Terminal Spacing

MATERIAL SPECIFICATIONS:

ContactsSilver clad or gold plate
 Case MaterialPolyester
 Actuator MaterialPolyamide
 TerminalsGold or silver plate
 Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +149°F (-20°C to +65°C)
 Storage Temperature.....-40°F to +212°F (-40°C to +100°C)
 Solder Heat Resistance.....See page M3-4

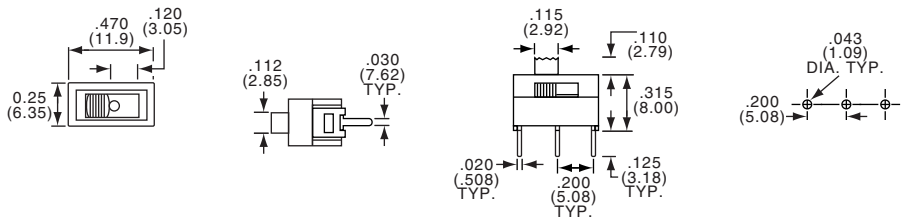
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact RatingGold: 0.4 VA max. 20 VDC or peak AC
 Silver: 3 A @ 115 VAC, 1.5A @ 230 VAC
 Initial Contact Resistance20 Milliohms max.
 Contact TimingNon-shorting
 Insulation Resistance1,000 Megohms @ 500 VDC min.
 Dielectric Strength500 Volts RMS @ sea level
 Actuation Force600 ±300 Grams
 Actuator Travel120" (3.05) Approximate
 Life ExpectancyUp to 30,000 Cycles

SPDT



MSSA114D

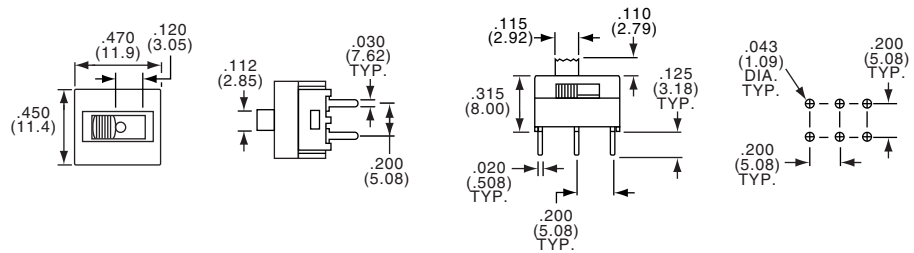


| Tyco Electronics | Alcoswitch | Act. Code | Pg. M5 | | | | Contacts |
|------------------|------------|-----------|--------|----|------|----|----------|
| 2-1437580-9 | MSSA111DG | D | | On | None | On | Gold |
| 3-1437580-0 | MSSA111EG | E | | On | Off | On | Gold |
| 3-1437580-1 | MSSA114D | D | | On | None | On | Silver |
| 3-1437580-2 | MSSA114E | E | | On | Off | On | Silver |

DPDT



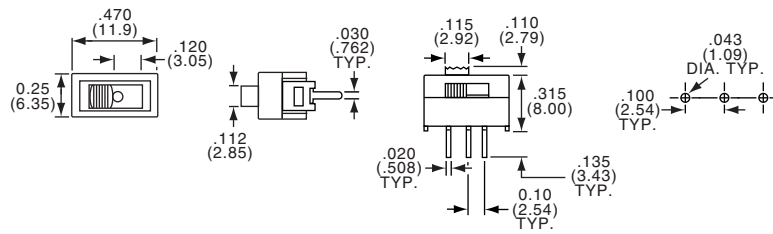
MSSA214N



| Tyco Electronics | Alcoswitch | Act. Code | Pg. M5 | | | | Contacts |
|------------------|------------|-----------|--------|----|------|----|----------|
| 4-1437580-9 | MSSA211NG | N | | On | None | On | Gold |
| 5-1437580-2 | MSSA214N | N | | On | None | On | Silver |

Slide Switches, Instrumentation Grade, .100 Terminal Spacing

SEE PAGE B30 FOR PRODUCT SPECIFICATIONS

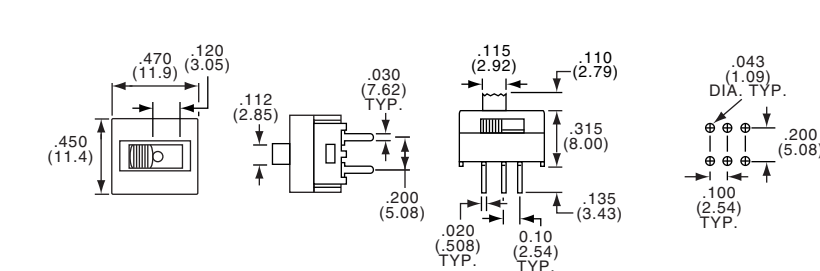


SPDT



MSSA104D

| Tyco Electronics | Alcoswitch | Act. Code | Pg. M5 | | | | Contacts |
|------------------|------------|-----------|--------|----|------|----|----------|
| 1-1437580-7 | MSSA101DG | D | | On | None | On | Gold |
| — | MSSA101EG | E | | On | Off | On | Gold |
| 2-1437580-3 | MSSA104D | D | | On | None | On | Silver |
| 2-1437580-6 | MSSA104E | E | | On | Off | On | Silver |

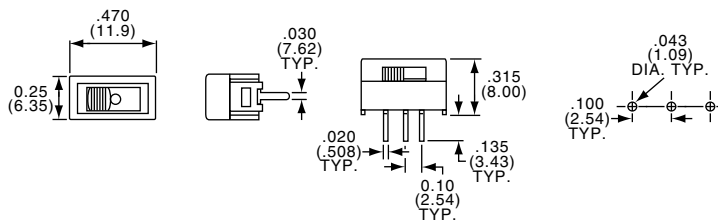


DPDT



MSSA204N

| Tyco Electronics | Alcoswitch | Act. Code | Pg. M5 | | | | Contacts |
|------------------|------------|-----------|--------|----|------|----|----------|
| 4-1437580-4 | MSSA204N | N | | On | None | On | Silver |

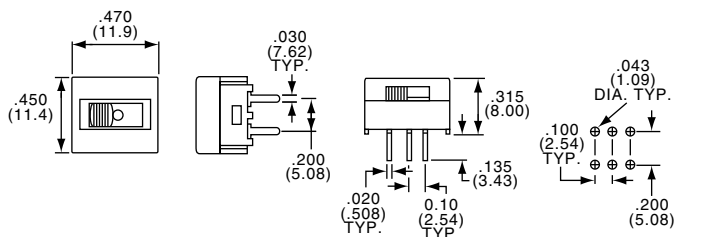


SPDT FLUSH ACTUATOR



MSSA104D1

| Tyco Electronics | Alcoswitch | Act. Code | Pg. M5 | | | | Contacts |
|------------------|------------|-----------|--------|----|------|----|----------|
| 2-1437580-4 | MSSA104D1 | D | | On | None | On | Silver |



DPDT FLUSH ACTUATOR



MSSA204N1

| Tyco Electronics | Alcoswitch | Act. Code | Pg. M5 | | | | Contacts |
|------------------|------------|-----------|--------|----|------|----|----------|
| 4-1437580-5 | MSSA204N1 | N | | On | None | On | Silver |
| 4-1437580-8 | MSSA204P1 | P | | On | Off | On | Silver |

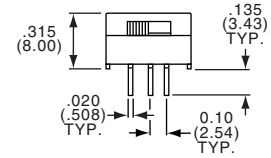
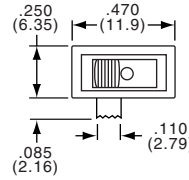
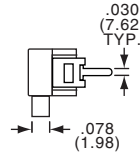
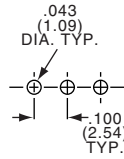
Slide Switches, Instrumentation Grade, .100 Terminal Spacing

SEE PAGE B30 FOR PRODUCT SPECIFICATIONS

SPDT



MSSA101DGRA

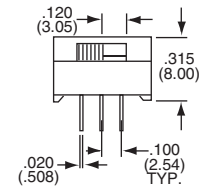
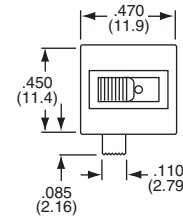
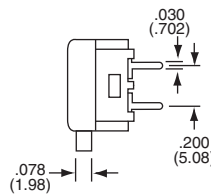
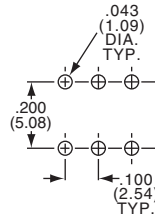


| Tyco Electronics | Alcoswitch | Act. Code | Pg. M5 | ■ ■ ■ | | | Contacts |
|------------------|-------------|-----------|--------|-------|------|----|----------|
| 1-1437580-9 | MSSA101DGRA | D | | On | None | On | Gold |
| 2-1437580-1 | MSSA101EGRA | E | | On | Off | On | Gold |
| 2-1437580-5 | MSSA104DRA | D | | On | None | On | Silver |
| 2-1437580-8 | MSSA104ERA | E | | On | Off | On | Silver |

DPDT



MSSA204NRA



| Tyco Electronics | Alcoswitch | Act. Code | Pg. M5 | ■ ■ ■ | | | Contacts |
|------------------|-------------|-----------|--------|-------|------|----|----------|
| 4-1437580-2 | MSSA201NGRA | N | | On | None | On | Gold |
| 8-1437580-2 | MSSA201PGRA | P | | On | Off | On | Gold |
| 4-1437580-6 | MSSA204NRA | N | | On | None | On | Silver |
| — | MSSA204PRA | P | | On | Off | On | Silver |

Slide Switches, Low Profile, Instrumentation Grade

MATERIAL SPECIFICATIONS:

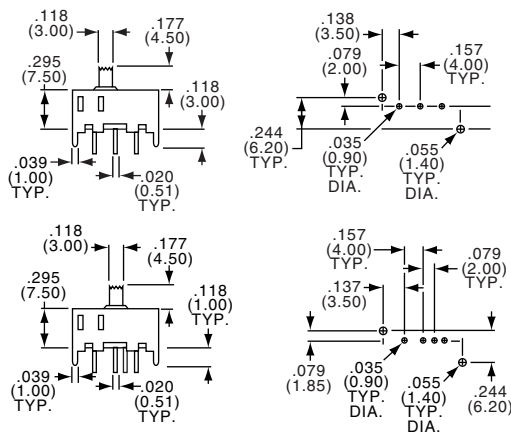
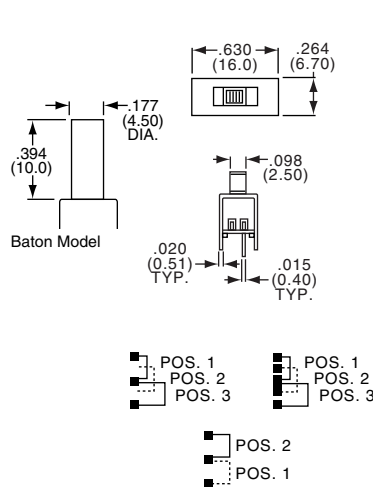
ContactsGold or silver over nickel over Cu alloy
 Frame MaterialNickel plated, Steel
 Actuator MaterialPOM 94 HB
 Terminals/Fixed Contacts.....Gold or silver over nickel over Cu alloy
 Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +212°F (-20°C to +100°C)
 Storage Temperature.....-40°F to +212°F (-40°C to + 100°C)
 Solder Heat ResistanceSee page M3-4
 Recommended Cleaning.....No chlorine base or Freon can be used.
 Aqueous or 100% ethanol.

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact RatingGold: 0.4 VA 20 VDC or peak AC
 Silver: 300 mA @ 125 VAC
 Initial Contact Resistance20 Milliohms max.
 Contact Timing.....Make-before-break
 Insulation Resistance1000 Megohms min.
 Dielectric Strength500 Volts RMS @ sea level
 Actuation Force50 to 450 Grams
 Actuator Travel.....0.079"-.158" (2.01-4.01)
 Life ExpectancyUp to 15,000 Cycles



SPDT/SP3T

Standard

MHS122

Baton

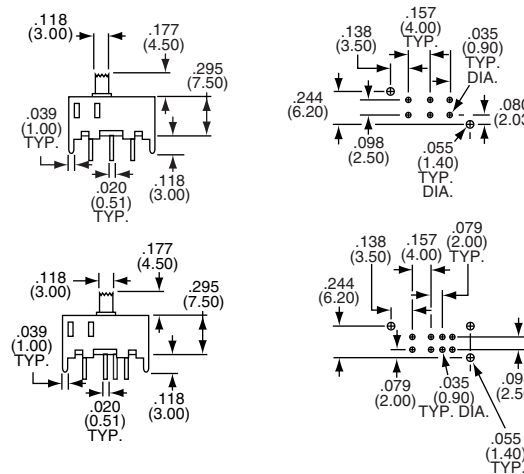
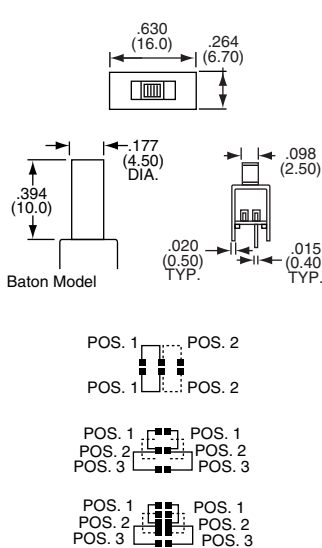
MHS122K

MHS123

MHS133

MHS122K

| Standard Model Tyco Electronics | Alcoswitch | Baton Model Tyco Electronics | Alcoswitch | Type | On | None | Off | Contacts |
|---------------------------------|------------|------------------------------|------------|------|----|------|-----|----------|
| 1437576-9 | MHS122 | 1-1437576-2 | MHS122K | SPDT | On | None | On | Silver |
| 1-1437576-5 | MHS123 | 1-1437576-7 | MHS123K | SPDT | On | Off | On | Silver |
| 1-1437576-9 | MHS133 | 2-1437576-2 | MHS133K | SP3T | On | On | On | Silver |
| 1-1437576-0 | MHS122G | 1-1437576-3 | MHS122KG | SPDT | On | None | On | Gold |
| | MHS123G | | MHS123KG | SPDT | On | Off | On | Gold |
| 2-1437576-0 | MHS133G | 2-1437576-3 | MHS133KG | SP3T | On | On | On | Gold |



DPDT/DP3T

Standard

MHS222

MHS223

Baton

MHS233K

MHS233

| Standard Model Tyco Electronics | Alcoswitch | Baton Model Tyco Electronics | Alcoswitch | Type | On | None | Off | Contacts |
|---------------------------------|------------|------------------------------|------------|------|----|------|-----|----------|
| 2-1437576-5 | MHS222 | 2-1437576-8 | MHS222K | DPDT | On | None | On | Silver |
| 3-1437576-1 | MHS223 | 3-1437576-4 | MHS223K | DPDT | On | Off | On | Silver |
| 3-1437576-6 | MHS233 | 3-1437576-9 | MHS233K | DP3T | On | On | On | Silver |
| 2-1437576-6 | MHS222G | 2-1437576-9 | MHS222KG | DPDT | On | None | On | Gold |
| 3-1437576-2 | MHS223G | — | MHS223KG | DPDT | On | Off | On | Gold |
| 3-1437576-7 | MHS233G | 4-1437576-0 | MHS233KG | DP3T | On | On | On | Gold |

Slide Switches, Low Profile, Right Angle, Instrumentation Grade

SEE PAGE B33 FOR PRODUCT SPECIFICATIONS

B
MHS Series

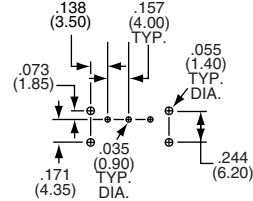
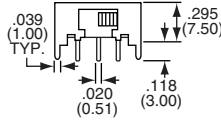
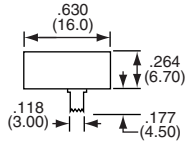
SPDT/SP3T



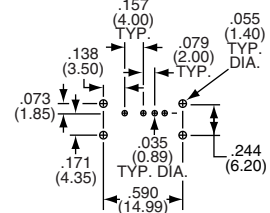
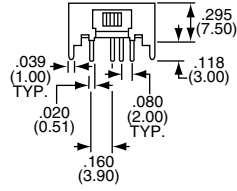
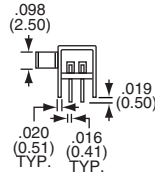
MHS122RA



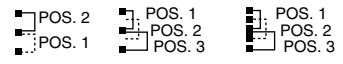
MHS133GRA



MHS122/123



MHS133



| Tyco Electronics | Alcoswitch | Type | | | | Contacts |
|------------------|------------|------|----|------|----|----------|
| 1-1437576-4 | MHS122RA | SPDT | On | None | On | Silver |
| 1-1437576-8 | MHS123RA | SPDT | On | Off | On | Silver |
| 2-1437576-4 | MHS133RA | SP3T | On | On | On | Silver |
| 1-1437576-1 | MHS122GRA | SPDT | On | None | On | Gold |
| 1-1437576-6 | MHS123GRA | SPDT | On | Off | On | Gold |
| 2-1437576-1 | MHS133GRA | SP3T | On | On | On | Gold |

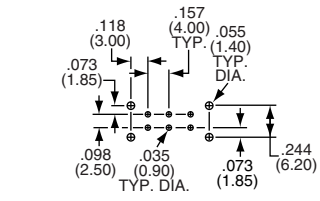
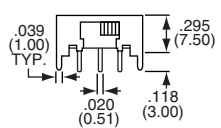
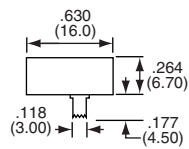
DPDT/DP3T



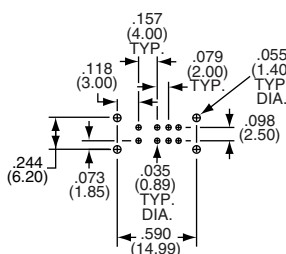
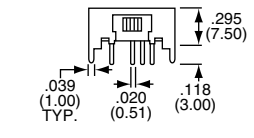
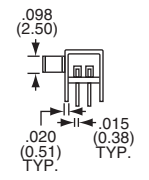
MHS222RA



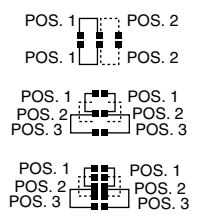
MHS233GRA



MHS222/223



MHS233



| Tyco Electronics | Alcoswitch | Type | | | | Contacts |
|------------------|------------|------|----|------|----|----------|
| 3-1437576-0 | MHS222RA | DPDT | On | None | On | Silver |
| 3-1437576-5 | MHS223RA | DPDT | On | Off | On | Silver |
| 4-1437576-1 | MHS233RA | DP3T | On | On | On | Silver |
| 2-1437576-7 | MHS222GRA | DPDT | On | None | On | Gold |
| 3-1437576-3 | MHS223GRA | DPDT | On | Off | On | Gold |
| 3-1437576-8 | MHS233GRA | DP3T | On | On | On | Gold |

Slide Switches, Micro Size, Instrumentation Grade

MATERIAL SPECIFICATIONS:

ContactsSilver clad plate over copper alloy
 Cover Base MaterialPolyester
 Actuator MaterialPolyacetal
 TerminalsSilver over nickel plate over copper alloy
 Terminal SealMolded in

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating100 Milliamps @ 12 VDC
 Initial Contact Resistance20 Milliohms max.
 Contact TimingMake before break
 Insulation Resistance100 Megohms min.
 Dielectric Strength500 Volts RMS @ sea level
 Actuation Force250 Grams, (+200g, -150g)
 Actuator Travel0.079" (2.01)
 Life ExpectancyUp to 10,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature+14°F to +140°F (-10°C to +60°C)
 Storage Temperature-4°F to +140°F (-20°C to +60°C)
 Solder Heat Resistance270°C+10°C, 5 seconds per MIL-STD-202,
 Method 210

PCB Hole Layout

Circuit Diagram

SPDT

SSJ12

| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 3-1437575-1 | SSJ12 | Silver | Upright |

PCB Hole Layout

Circuit Diagram

SPDT

SSJ12R

| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 3-1437575-2 | SSJ12R | Silver | Right Angle |

PCB Hole Layout

Circuit Diagram

SP3T

SSJ13

| Part Number | | | |
|------------------|------------|---------|----------------|
| Tyco Electronics | Alcoswitch | Plating | Mounting Style |
| 3-1437575-3 | SSJ13 | Silver | Upright |

Slide Switches, Micro Size, Instrumentation Grade

MATERIAL SPECIFICATIONS:

ContactsSilver over nickel over copper alloy
 Case MaterialPolyacetal UL94HB
 Actuator MaterialPolyester UL94HB
 TerminalsSilver over nickel over copper alloy
 Terminal SealEpoxy
 Terminal Board.....UL 94 V-O

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +140°F (-10°C to +60°C)
 Storage Temperature.....+14°F to +140°F (-10°C to +60°C)
 Solder Heat Resistance.....230 ± 150 grams ± 5°C for 3 seconds per MIL-STD-202, Method 210

TYPICAL PERFORMANCE CHARACTERISTICS:

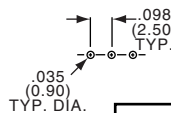
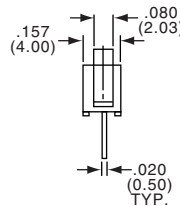
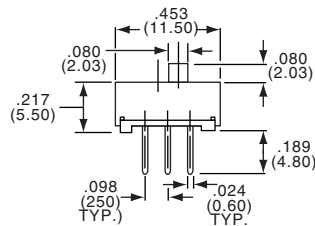
Contact Rating100 mA @ 30 VDC or peak AC
 Initial Contact Resistance30 Milliohms max.
 Contact TimingMake before break
 Insulation Resistance100 Megohms min.
 Dielectric Strength500 VAC
 Actuation Force200 ± 150 Grams
 Life ExpectancyUp to 10,000 Cycles

B
MMS Series

SPDT



MMS12



Circuit Diagram

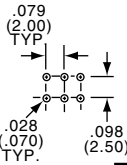
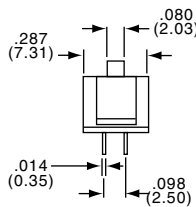
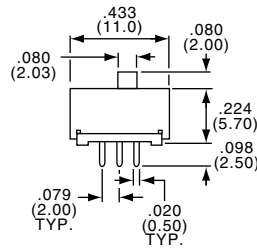


| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| 1437575-4 | MMS12 | SPDT | Silver | Upright |

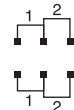
DPDT



MMS22



Circuit Diagram

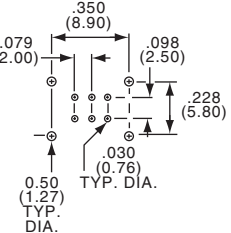
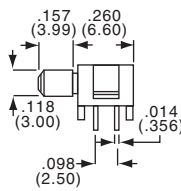
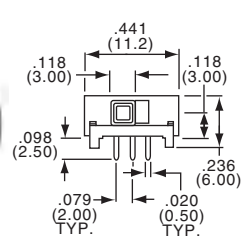


| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| 1437575-5 | MMS22 | DPDT | Silver | Upright |

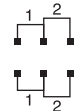
DPDT



MMS22R



Circuit Diagram

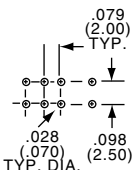
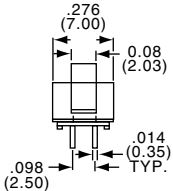
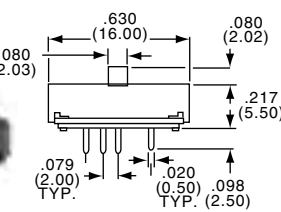


| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| 1437575-6 | MMS22R | DPDT | Silver | Right Angle |

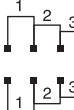
DP3T



MMS23



Circuit Diagram

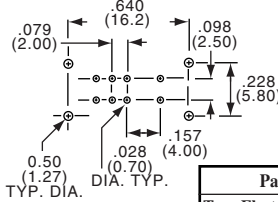
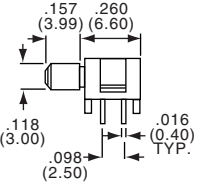
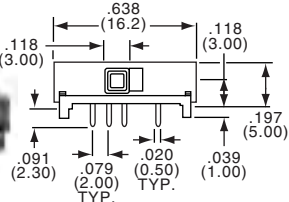


| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| 1437575-8 | MMS23 | DP3T | Silver | Upright |

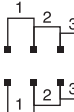
DP3T



MMS23R



Circuit Diagram

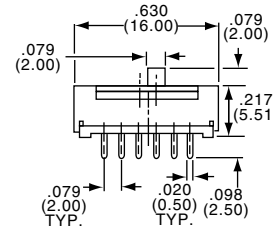
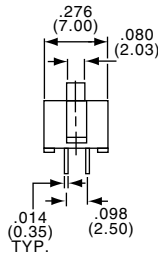
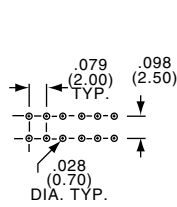
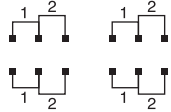


| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| 1437575-9 | MMS23R | DP3T | Silver | Right Angle |

Slide Switches, Micro Size, Instrumentation Grade

SEE PAGE B36 FOR PRODUCT SPECIFICATIONS

Circuit Diagram

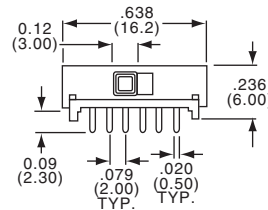
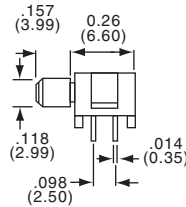
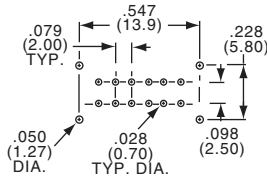
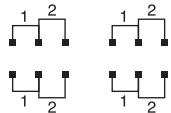


4PDT

MMS42

| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| I-1437575-0 | MMS42 | 4PDT | Silver | Upright |

Circuit Diagram

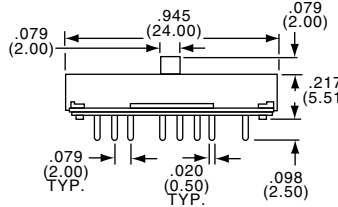
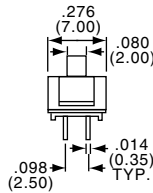
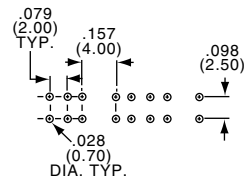
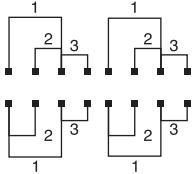


4PDT

MMS42R

| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| I-1437575-1 | MMS42R | 4PDT | Silver | Right Angle |

Circuit Diagram

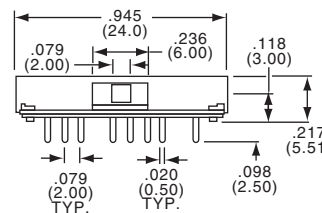
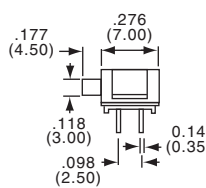
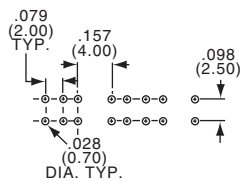
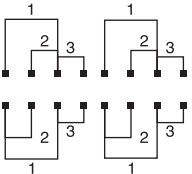


4P3T

MMS43

| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| I-1437575-2 | MMS43 | 4P3T | Silver | Upright |

Circuit Diagram



4P3T

MMS43R

| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| I-1437575-3 | MMS43R | 4P3T | Silver | Right Angle |

Slide Switches, Micro Size, Instrumentation Grade

MATERIAL SPECIFICATIONS:

ContactsGold or silver plate over nickel plate
 Case MaterialSteel, tin plate
 Actuator MaterialPolyacetal UL94HB
 TerminalsGold or silver plate over nickel plate
 Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
 Storage Temperature.....-40°F to +212°F (-40°C to +100°C)
 Solder Heat Resistance.....+260°C (+500°F) for 5 seconds
 per MIL-STD-202, Method 210

TYPICAL PERFORMANCE CHARACTERISTICS:

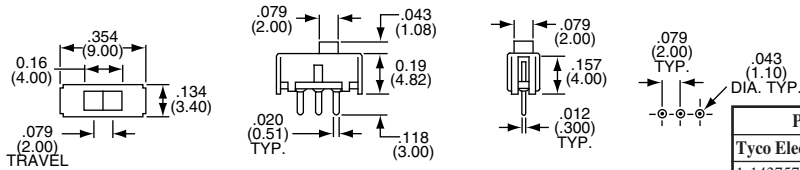
Contact RatingGold: 0.4 VA @ 20 VDC or peak AC
 Silver: 100 mA @ 30 VDC
 Initial Contact Resistance.....30 Milliohms max.
 Contact Timing.....Make before break
 Insulation Resistance100 Megohms min.
 Dielectric Strength500 VAC
 Actuation Force250 ± 150 Grams
 Life ExpectancyUp to 10,000 Cycles
 Travel0.079" (2.01)

B
SSB Series

SPDT



SSB12



Circuit Diagram

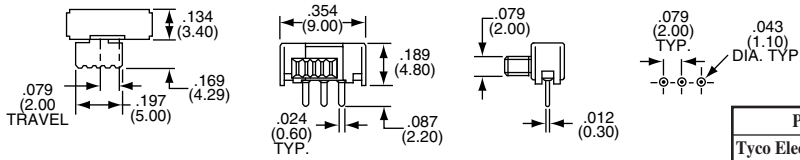


| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| 1-1437575-8 | SSB12 | SPDT | Silver | Upright |
| 1-1437575-9 | SSB12G | SPDT | Gold | Upright |

SPDT



SSB12R



Circuit Diagram

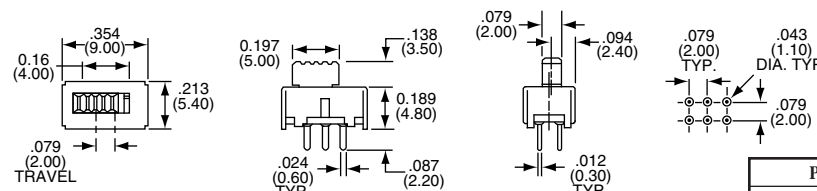


| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| 2-1437575-0 | SSB12R | SPDT | Silver | Right Angle |
| 2-1437575-1 | SSB12RG | SPDT | Gold | Right Angle |

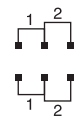
DPDT



SSB22



Circuit Diagram

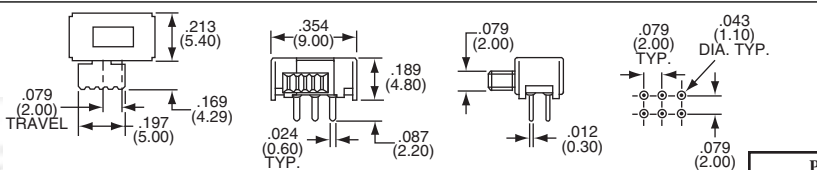


| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| 2-1437575-2 | SSB22 | DPDT | Silver | Upright |
| 2-1437575-3 | SSB22G | DPDT | Gold | Upright |

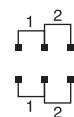
DPDT



SSB22R



Circuit Diagram

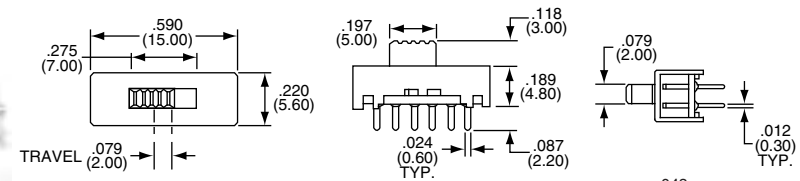


| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| 2-1437575-4 | SSB22R | DPDT | Silver | Right Angle |
| 2-1437575-5 | SSB22RG | DPDT | Gold | Right Angle |

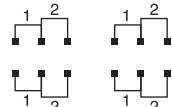
4PDT



SSB42



Circuit Diagram



| Part Number | | | | |
|------------------|------------|------|---------|----------------|
| Tyco Electronics | Alcoswitch | Type | Plating | Mounting Style |
| 2-1437575-8 | SSB42 | 4PDT | Silver | Upright |
| 2-1437575-9 | SSB42G | 4PDT | Gold | Upright |

Slide Switches, PC Tails, Wiping Contact, Consumer Grade

MATERIAL SPECIFICATIONS:

ContactsSilver plate over copper alloy
 Case MaterialSteel
 Actuator MaterialPolycarbonate
 Terminals/Fixed Contacts.....Silver plate over copper alloy
 Terminal SealEpoxy

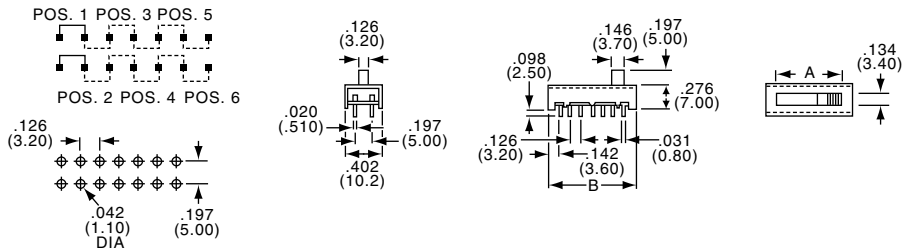
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating250 mA @ 125 VAC, 150 mA @ 12 VDC
 Initial Contact Resistance30 Milliohms max.
 Contact TimingBreak before make
 Insulation Resistance500 Megohms min.
 Dielectric Strength500 VAC
 Actuation Force100-300 Grams
 Actuator Travel.....0.126" (3.20)
 Life ExpectancyUp to 10,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....14°F to +140°F (-10°C to +60°C)
 Storage Temperature.....14°F to +140°F (-10°C to +60°C)

2 TO 6 POSITIONS

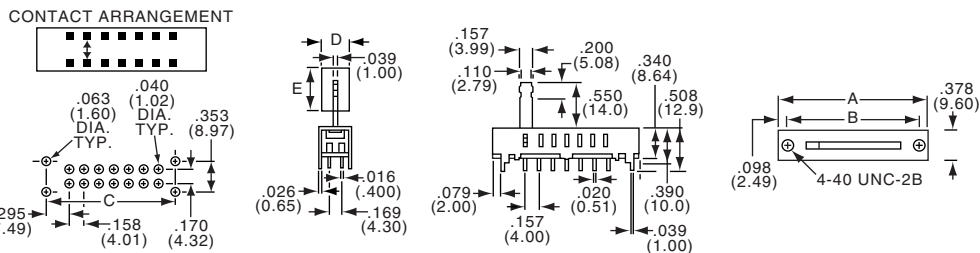


| Part Number | | Type | Dim.A | Dim.B |
|------------------|------------|-------------|-------------|--------------|
| Tyco Electronics | Alcoswitch | | | |
| 3-1437577-9 | SLS220PC | 2 Positions | .272(6.91) | .535(13.59) |
| 4-1437577-1 | SLS230PC | 3 Positions | .398(10.11) | .661(16.79) |
| 4-1437577-3 | SLS240PCA | 4 Positions | .524(13.31) | .787(19.99) |
| 4-1437577-5 | SLS250PC | 5 Positions | .650(16.51) | .913(23.19) |
| 4-1437577-7 | SLS260PC | 6 Positions | .776(19.71) | 1.039(26.39) |

SL Series

Slide Switches, PC Tails, Lever or Knob Actuator

2 TO 10 POSITIONS



| Part Number | | Type | Dim. A | Dim. B | Dim. C | Knob Only | Description | Dim. D | Dim. E |
|------------------|------------|--------------|-------------|-------------|-------------|-----------|------------------------|------------|-------------|
| Tyco Electronics | Alcoswitch | | | | | | | | |
| 1437577-9 | SL220 | 2 Positions | .95(24.13) | .750(19.05) | .750(19.05) | KSS10A | Aluminum-Clear Anodize | .270(6.86) | .500(12.70) |
| 1-1437577-0 | SL330 | 3 Positions | 1.11(28.19) | .910(23.1) | .910(23.1) | KSS10B | Aluminum-Black Anodize | .270(6.86) | .500(12.70) |
| 1-1437577-1 | SL550 | 5 Positions | 1.42(36.07) | 1.22(30.99) | 1.22(31.1) | KSS20A | Aluminum-Clear Anodize | .305(7.75) | .512(13.00) |
| 1-1437577-2 | SL660 | 6 Positions | 1.58(40.13) | 1.38(35.05) | 1.38(35.1) | KSS20B | Aluminum-Black Anodize | .305(7.75) | .512(13.00) |
| 1-1437577-3 | SL770 | 7 Positions | 1.74(44.20) | 1.54(39.12) | 1.54(39.1) | | | | |
| 1-1437577-4 | SL880 | 8 Positions | 1.89(48.01) | 1.70(43.18) | 1.70(43.1) | | | | |
| 1437577-8 | SL1000 | 10 Positions | 2.21(56.13) | 2.01(51.05) | 2.01(51.5) | | | | |

Slide Switches, Panel Mount, Wiping Contact, Consumer Grade

MATERIAL SPECIFICATIONS:

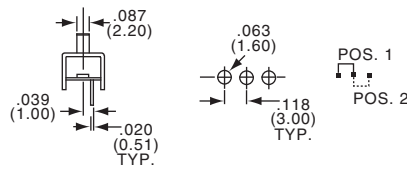
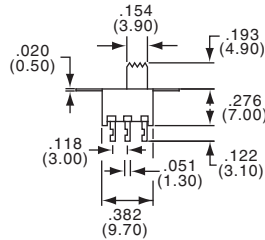
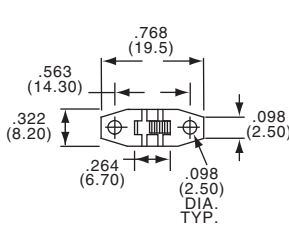
ContactsSilver over nickel plate copper alloy
 Case MaterialSteel-zinc plated
 Actuator MaterialPBT 30% glass
 Terminals/Fixed Contacts.....Silver over nickel plate copper alloy
 Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-40°F to +212°F (-40°C to +100°C)
 Solder Heat Resistance+300°C (+572°F) for 5 seconds

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating500 mA @ 125 VAC, 200 mA @ 12 VDC
 Initial Contact Resistance30 Milliohms max.
 Contact TimingBreak-Before-Make
 Insulation Resistance500 Megohms min.
 Dielectric Strength500 VAC
 Actuation ForceSLS: 100-300 Grams; SLSA: 220, 300 -500 Grams
 Plunger/Actuator Travel:0.106" (2.69)
 Life ExpectancyUp to 10,000 Cycles

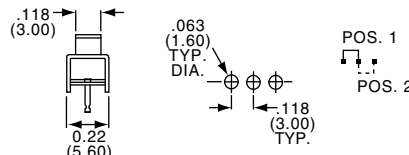
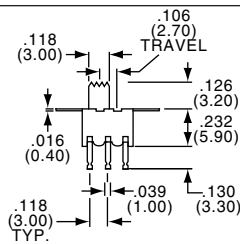
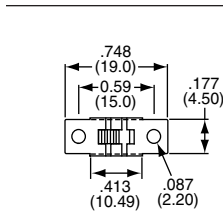


SPDT



SLS120

| Part Number | | | | |
|------------------|------------|------|----------|--------------------|
| Tyco Electronics | Alcoswitch | Type | Mounting | Terminals Contacts |
| 1-1437577-5 | SLS120 | SPDT | Panel | Lug |

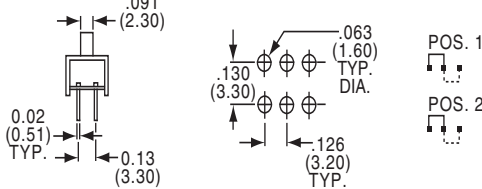
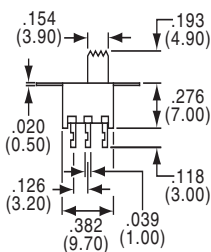
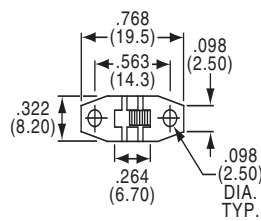


SPDT



SLSA120

| Part Number | | | | |
|------------------|------------|------|----------|--------------------|
| Tyco Electronics | Alcoswitch | Type | Mounting | Terminals Contacts |
| 5-1437577-3 | SLSA120 | SPDT | Panel | Turret |

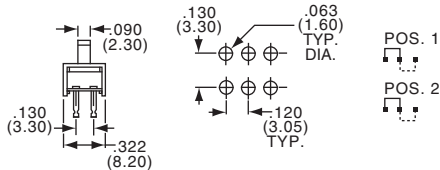
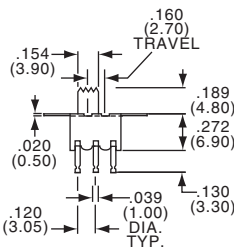
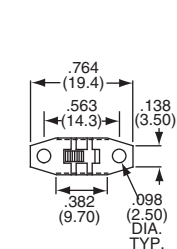


DPDT



SLS220

| Part Number | | | | |
|------------------|------------|------|----------|--------------------|
| Tyco Electronics | Alcoswitch | Type | Mounting | Terminals Contacts |
| 3-1437577-7 | SLS220 | DPDT | Panel | Lug |



DPDT



SLSA220

| Part Number | | | | |
|------------------|------------|------|----------|--------------------|
| Tyco Electronics | Alcoswitch | Type | Mounting | Terminals Contacts |
| 5-1437577-5 | SLSA220 | DPDT | Panel | Turret |

Slide Switches, Wiping Contacts, Consumer Grade

MATERIAL SPECIFICATIONS:

ContactsCopper alloy-silver/nickel
 Case MaterialSteel-zinc plate
 Actuator MaterialPBT 30% Glass
 Terminals/Fixed Contacts.....Copper, alloy, silver/nickel plate
 Terminal SealEpoxy

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating500 mA @ 125 VAC, 200 mA @ 12 VDC
 Initial Contact Resistance30 Milliohms max.
 Contact TimingBreak before make
 Insulation Resistance500 Megohms min.
 Dielectric Strength500 VAC
 Actuation Force350±150 Grams
 Plunger/Actuator Travel:0.106 (2.69)
 Life ExpectancyUp to 10,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to + 185°F (-20°C to + 85°C)
 Storage Temperature.....-40°F to + 212°F (-40°C to + 100°C)
 Solder Heat Resistance+300°C (+572°F) for 5 seconds

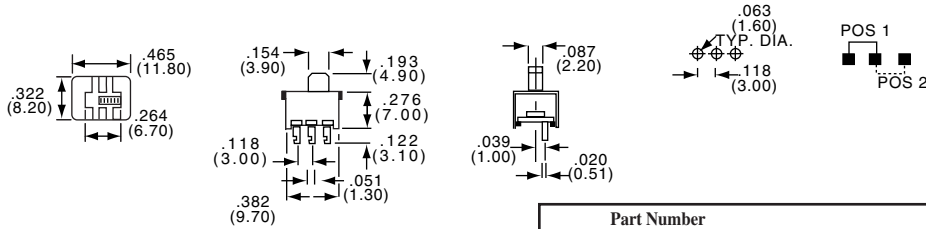
B
SLS/SLSA Series

SPDT



Lug

SLS1201



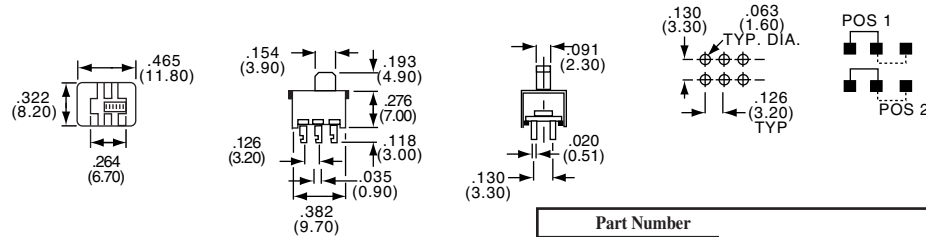
| Part Number | | | | |
|------------------|------------|------|----------|--------------------|
| Tyco Electronics | Alcoswitch | Type | Mounting | Terminals Contacts |
| 1-1437577-6 | SLS1201 | SPDT | PC | Lug |

DPDT



Lug

SLS2201



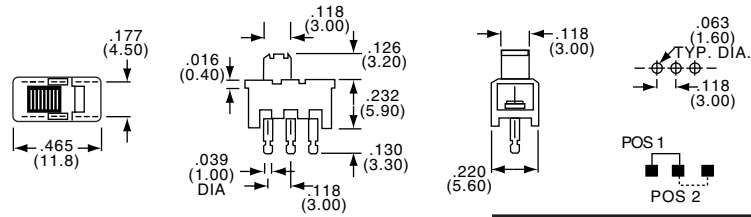
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|------------------|------------|------|----------|--------------------|
| Tyco Electronics | Alcoswitch | Type | Mounting | Terminals Contacts |
| 3-1437577-8 | SLS2201 | DPDT | PC | Lug |

SPDT



Turret

SLSA1201



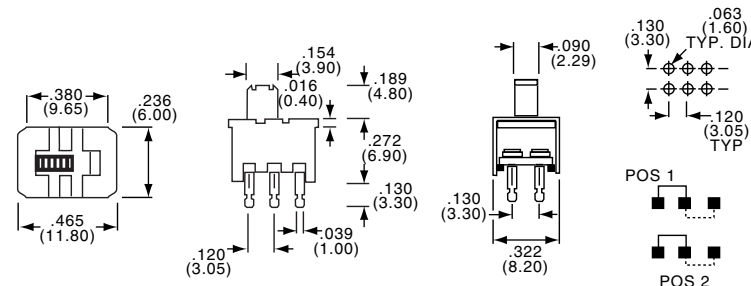
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|------------------|------------|------|----------|--------------------|
| Tyco Electronics | Alcoswitch | Type | Mounting | Terminals Contacts |
| 5-1437577-4 | SLSA1201 | SPDT | PC | Turret |

DPDT



Turret

SLSA2201



| Part Number | | | | |
|------------------|------------|------|----------|--------------------|
| Tyco Electronics | Alcoswitch | Type | Mounting | Terminals Contacts |
| 5-1437577-6 | SLSA2201 | DPDT | PC | Turret |

Slide Switches, Miniature, Rolling Contact, Economy Grade

MATERIAL SPECIFICATIONS:

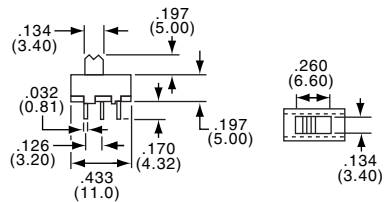
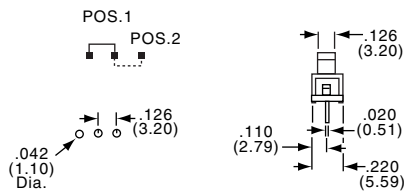
ContactsSilver over nickel plate over copper alloy
Case MaterialTin plate over steel
Actuator MaterialPolycarbonate
Terminals/Fixed Contacts.....Silver over nickel plate over copper alloy

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating250 mA @ 125 VAC, 150 mA @ 12 VDC
Initial Contact Resistance30 Milliohms max.
Contact TimingBreak before make
Insulation Resistance500 Megohms min.
Dielectric Strength500 VAC
Actuation Force340 ± 57 Grams
Actuator Travel.....0.126" (3.20)
Life ExpectancyUp to 6,000 to 10,000 Cycles

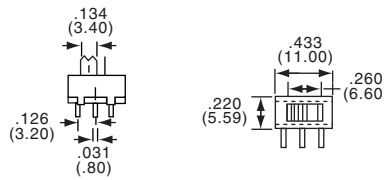
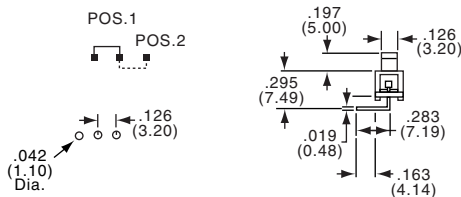
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....14°F to +185°F (-10°C to +85°C)
Storage Temperature.....14°F to +185°F (-10°C to +85°C)



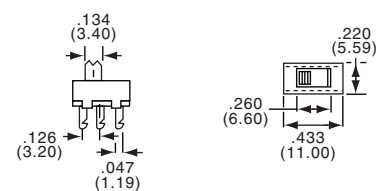
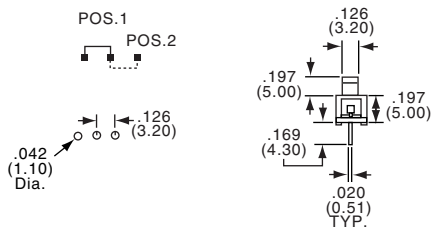
SLS121PC

| Part Number | | |
|------------------|------------|-----------------|
| Tyco Electronics | Alcoswitch | Mounting Style |
| 1-1437577-9 | SLS121PC | Printed Circuit |



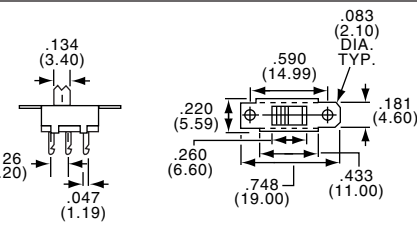
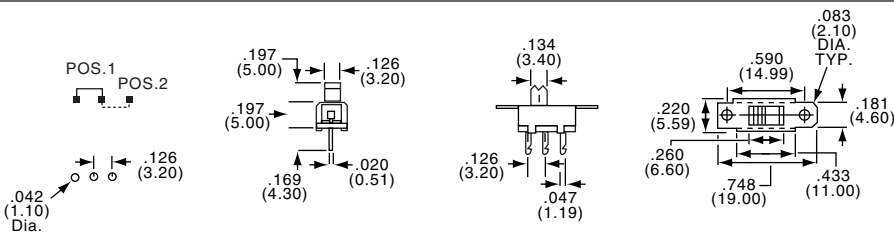
SLS121RA

| Part Number | | |
|------------------|------------|----------------|
| Tyco Electronics | Alcoswitch | Mounting Style |
| 2-1437577-2 | SLS121RA | Right Angle PC |



SLS1211

| Part Number | | |
|------------------|------------|-----------------|
| Tyco Electronics | Alcoswitch | Mounting Style |
| 1-1437577-8 | SLS1211 | Printed Circuit |



SLS121

| Part Number | | |
|------------------|------------|----------------|
| Tyco Electronics | Alcoswitch | Mounting Style |
| 1-1437577-7 | SLS121 | Panel Mounted |

Slide Switches, Miniature, Rolling Contact, Economy Grade

MATERIAL SPECIFICATIONS:

ContactsSilver over nickel flash over copper alloy
 Case MaterialSteel
 Actuator MaterialPolycarbonate
 Terminals/Fixed Contacts.....Silver over nickel over copper alloy

ENVIRONMENTAL SPECIFICATIONS:

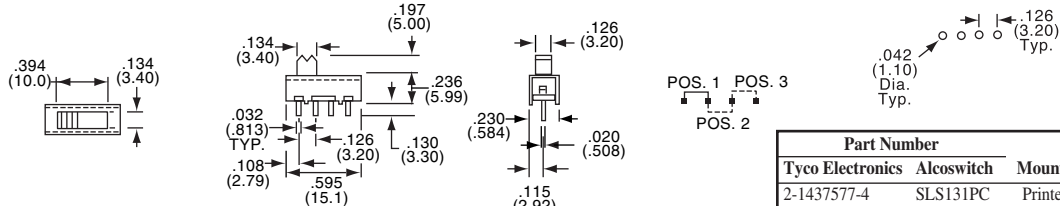
Operating Temperature.....+14°F to +185°F (-10°C to +85°C)
 Storage Temperature.....+14°F to +185°F (-10°C to +85°C)
 Solder Heat Resistance.....+260°C for 5 seconds

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating250mA @ 125 VAC
 150mA @ 12VDC
 Initial Contact Resistance20 Milliohms max.
 Contact Timing.....Break-Before-Make
 Insulation Resistance>50 Megohms.
 Dielectric Strength500 Volts RMS @ sea level
 Actuation Force340 ± 57 Grams
 Plunger/Actuator Travel:0.260" to 0.512" (6.60-13.00)
 Life ExpectancyUp to 10,000 Cycles at no load

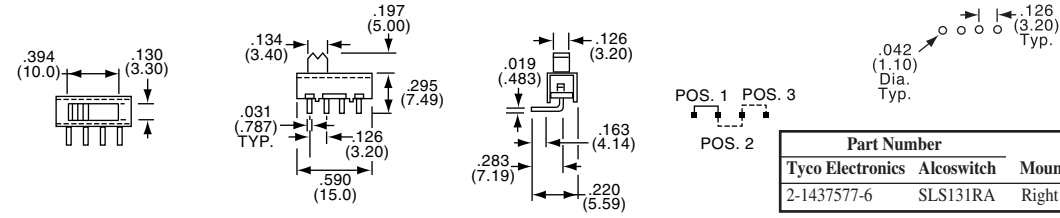
B
SLS Series

SP3T



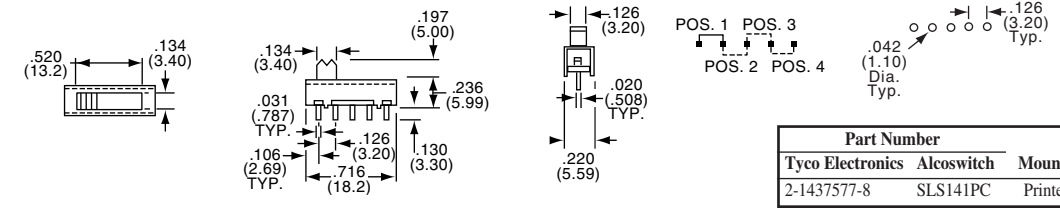
| Part Number | | |
|------------------|------------|-----------------|
| Tyco Electronics | Alcoswitch | Mounting Style |
| 2-1437577-4 | SLS131PC | Printed Circuit |

SP3T



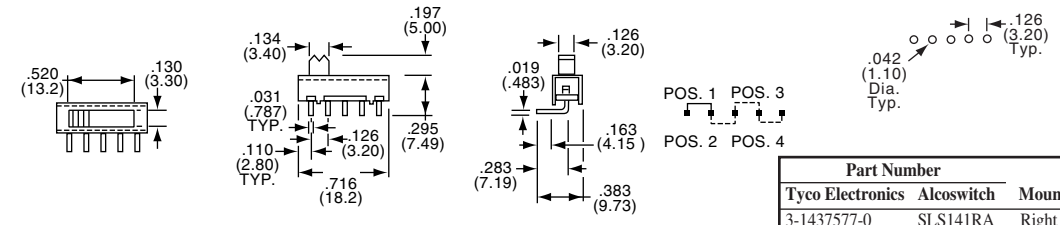
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|------------------|------------|----------------|
| Tyco Electronics | Alcoswitch | Mounting Style |
| 2-1437577-6 | SLS131RA | Right Angle PC |

SP4T



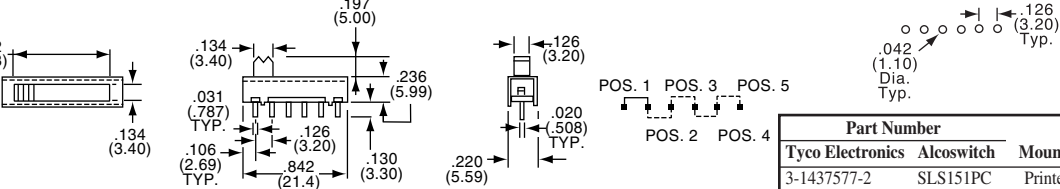
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|------------------|------------|-----------------|
| Tyco Electronics | Alcoswitch | Mounting Style |
| 2-1437577-8 | SLS141PC | Printed Circuit |

SP4T



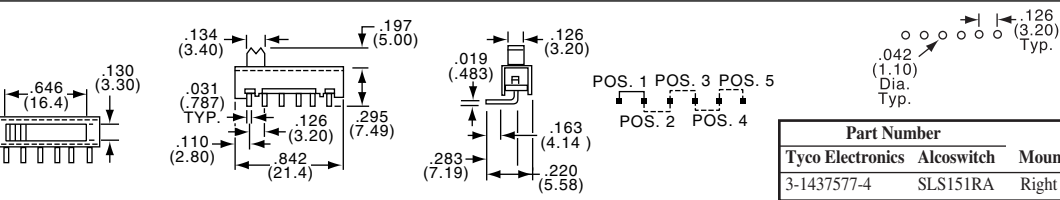
| Part Number | | |
|------------------|------------|----------------|
| Tyco Electronics | Alcoswitch | Mounting Style |
| 3-1437577-0 | SLS141RA | Right Angle PC |

SP5T



| Part Number | | |
|------------------|------------|-----------------|
| Tyco Electronics | Alcoswitch | Mounting Style |
| 3-1437577-2 | SLS151PC | Printed Circuit |

SP5T



| Part Number | | |
|------------------|------------|----------------|
| Tyco Electronics | Alcoswitch | Mounting Style |
| 3-1437577-4 | SLS151RA | Right Angle PC |

Slide Switches, Baton-Toggle, Multi Pole

MATERIAL SPECIFICATIONS:

ContactsSilver clad over nickel plated copper alloy
 Case MaterialSteel, tin plate
 Actuator MaterialABS plastic/Aluminum cap
 Terminals/Fixed Contacts.....Silver over nickel plated copper alloy
 Terminal SealEpoxy

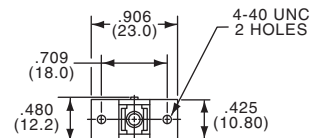
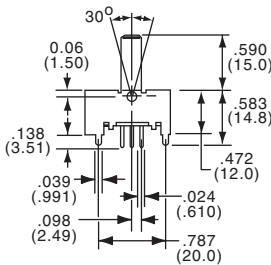
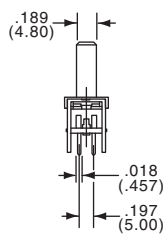
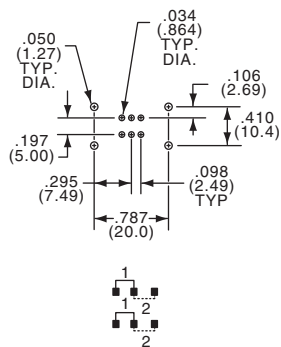
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+5°F to +131°F (-15°C to +55°C)
 Storage Temperature.....-4°F to +140°F (-20°C to +60°C)
 Solder Heat Resistance.....Hand: 300°C for 3 seconds
 Wave: 250°C for 5 seconds

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating300 mA @ 125 VAC, 200 mA @ 12VDC
 Initial Contact Resistance20 Milliohms max.
 Contact TimingSee table below
 Insulation Resistance500 Megohms min.
 Dielectric Strength500 Volts RMS @ sea level
 Actuation Force450 ± 250 Grams
 Plunger/Actuator Travel30°
 Life ExpectancyUp to 10,000 Cycles

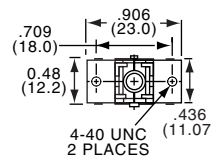
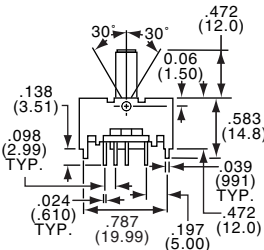
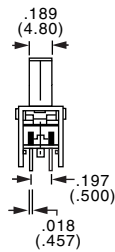
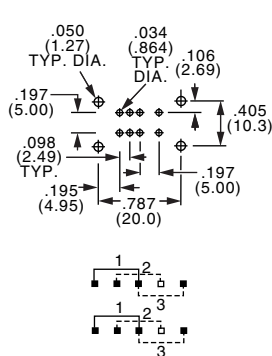
DPDT



CST022NK

| Part Number | | | | | Contact Timing |
|------------------|------------|------|----|----|--|
| Tyco Electronics | Alcoswitch | | | | |
| 1437576-2 | CST022NK | None | On | On | Non Shorting - Break-Before-Make (On) indicates momentary position. |

DP3T



CST023NK

| Part Number | | | | | Contact Timing |
|------------------|------------|----|----|----|----------------|
| Tyco Electronics | Alcoswitch | | | | |
| 1437576-4 | CST023NK | On | On | On | Non Shorting |

Slide Switches, Baton-Toggle, Multi Pole

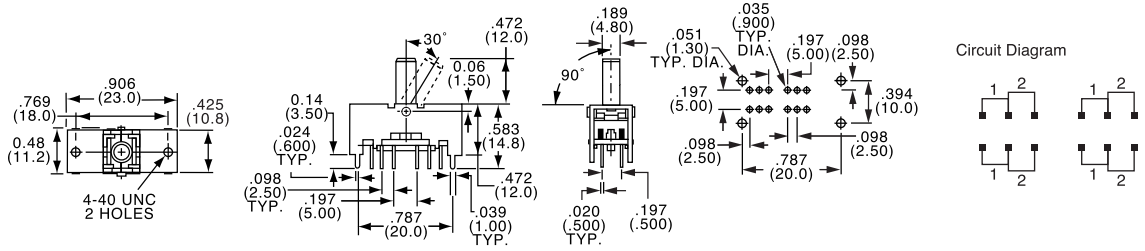
SEE PAGE B45 FOR PRODUCT SPECIFICATIONS

B
CST Series

4PDT



CST042NK

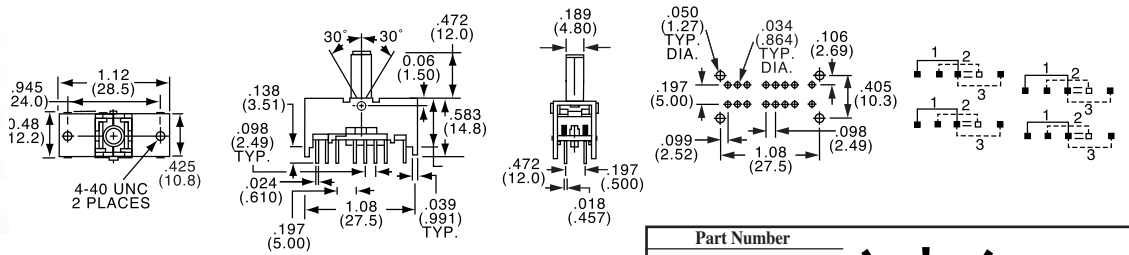


| Part Number | | | | | |
|------------------|------------|------|----|----|----------------|
| Tyco Electronics | Alcoswitch | | | | Contact Timing |
| 1437576-5 | CST042NK | None | On | On | Non Shorting |

4P3T



CST043NK

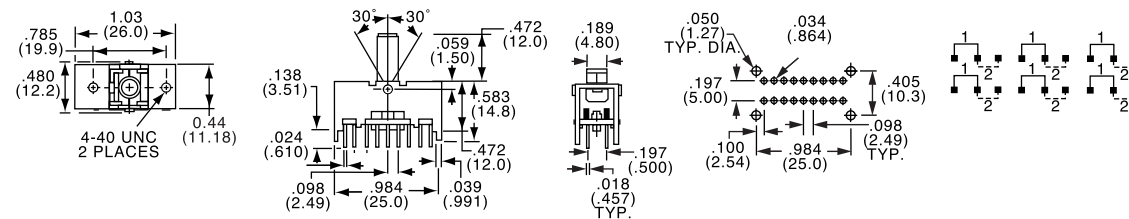


| Part Number | | | | | |
|------------------|------------|----|----|----|----------------|
| Tyco Electronics | Alcoswitch | | | | Contact Timing |
| 1437576-6 | CST043NK | On | On | On | Non Shorting |

6PDT



CST062NK



| Part Number | | | | | |
|------------------|------------|------|----|----|----------------|
| Tyco Electronics | Alcoswitch | | | | Contact Timing |
| 1437576-7 | CST062NK | None | On | On | Non Shorting |

Slide Switches, Miniature, Right Angle, Surface Mount

MATERIAL SPECIFICATIONS:

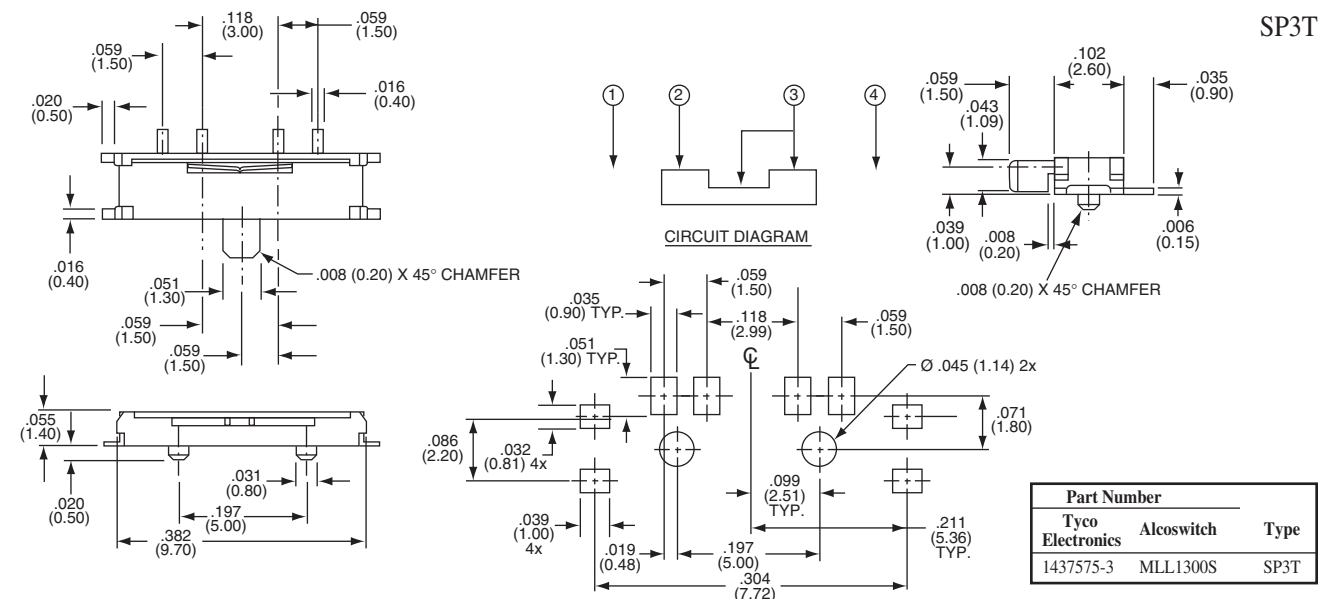
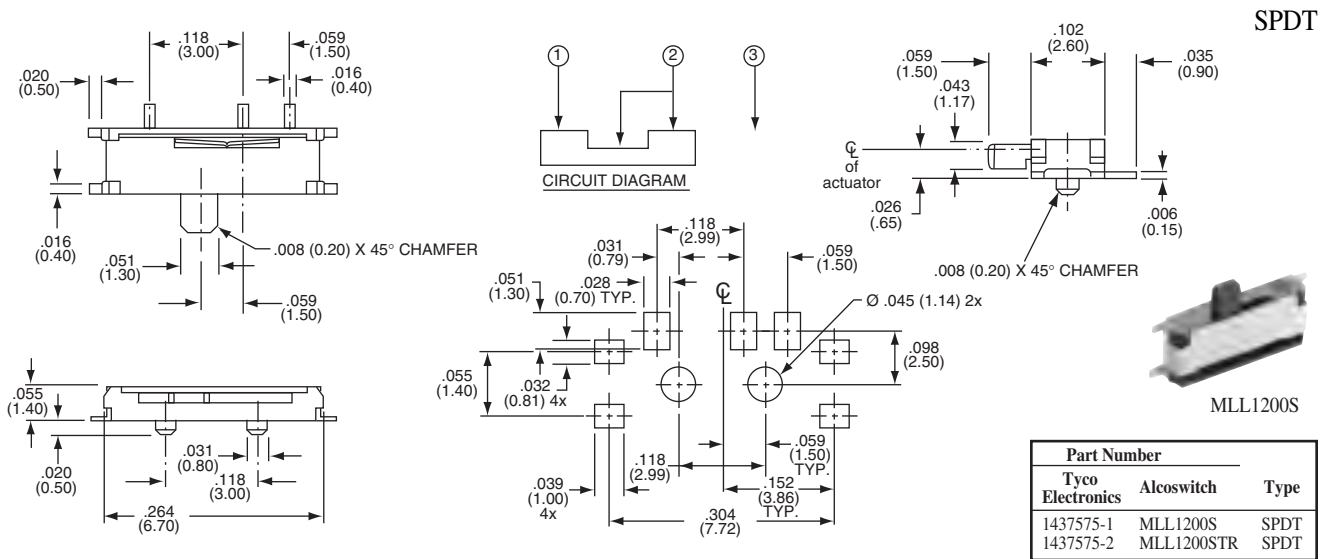
ContactsBeCu, copper alloy, 1 micron silver plate
 Case Material40% G.F. PPS, UL94V-0
 FrameStainless steel, silver plated
 Actuator MaterialNylon, UL94HB polyamide
 TerminalsBrass, copper alloy, 1 micron silver plate
 Terminal SealEpoxy

TYPICAL PERFORMANCE CHARACTERISTICS:

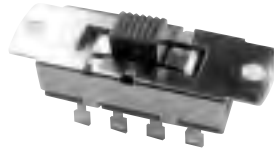
Contact Rating0.3 Amp, 4 VDC
 Initial Contact Resistance70 Milliohms
 Insulation Resistance100 Megohms min.
 Dielectric Strength100 VAC min.
 Actuation Force175 ±100 Grams
 Life ExpectancyUp to 10,000 Cycles
 Travel0.059 (1.5mm)

ENVIRONMENTAL SPECIFICATIONS:

HumidityMIL-STD-202, Method 103, Condition B
 Moisture ResistanceMIL-STD-202, Method 106
 Thermal ShockMIL-STD-202, Method 107, Condition A
 Solder Heat Resistance ...230°C per EIA 364-56 Level 2



13 Amp & 6 Amp, Panel Mount



MATERIAL SPECIFICATIONS:

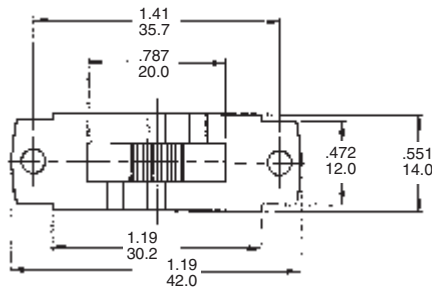
ContactsCopper alloy, silver plate
 BoardPhenolic, UL94V0
 FrameSteel, nickel plate
 Actuator MaterialNylon, UL94V-2
 TerminalsCopper alloy, silver plate
 Terminal SealEpoxy

ENVIRONMENTAL SEPCIFICATIONS:

Operating Temperature ..-4°F to 149°F (-20° to +65°C)
 Storage Temperature-13°F to 158°F (-25° to +70°C)
 Solder Heat Resistance ..Per EIA-364-56A, Procedure 3, Condition B
 SolderabilityPer EIA-364-52, Class 2, Category 1, 95%
 minimum coverage

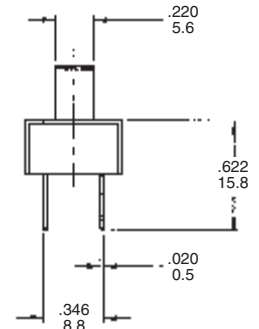
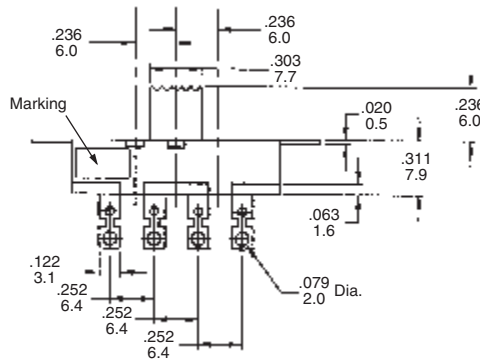
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating13 Amp, 125 VAC or 6.5 Amp, 250 VAC
 Initial Contact Resistance.....50 Milliohms max.
 Insulation Resistance100 Megohms min.
 Dielectric Strength1200 VAC
 Actuation Force100-900 Grams
 Life ExpectancyUp to 5000 Cycles
 Travel0.236 (6.0mm)



DP3T

Part Number 1571490-1



MATERIAL SPECIFICATIONS:

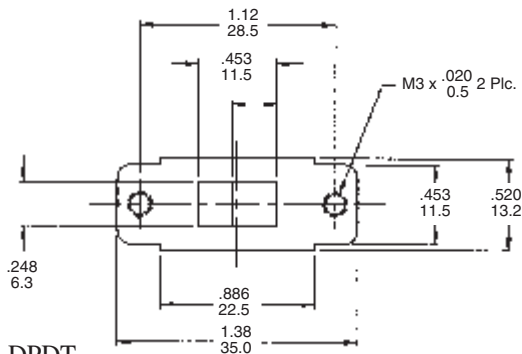
ContactsCopper alloy, silver plate
 BoardPhenolic, UL94HB
 FrameSteel, nickel plate
 Actuator MaterialPolycarbonate, UL94V-2
 TerminalsCopper alloy, silver plate
 Terminal SealEpoxy

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating6 Amp, 125 VAC or 3 Amp, 250 VAC
 Initial Contact Resistance.....50 Milliohms max.
 Insulation Resistance100 Megohms min.
 Dielectric Strength1800 VAC
 Actuation Force500-900 Grams
 Life Expectancy5000 Cycles
 Travel0.197 (5.0mm)

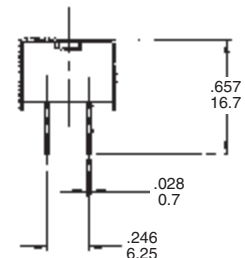
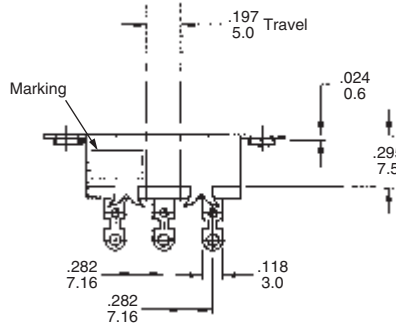
ENVIRONMENTAL SEPCIFICATIONS:

Operating Temperature ..-4°F to 149°F (-20° to +65°C)
 Storage Temperature-13°F to 158°F (-25° to +70°C)
 Solder Heat Resistance ..Per EIA-364-56A, Procedure 3, Condition B
 SolderabilityPer EIA-364-52, Class 2, Category 1, 95% minimum
 coverage



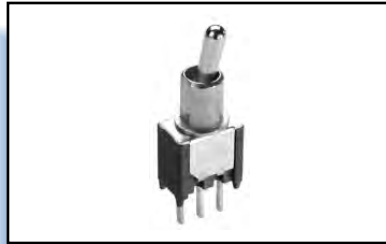
DPDT

Part Number 1571491-1





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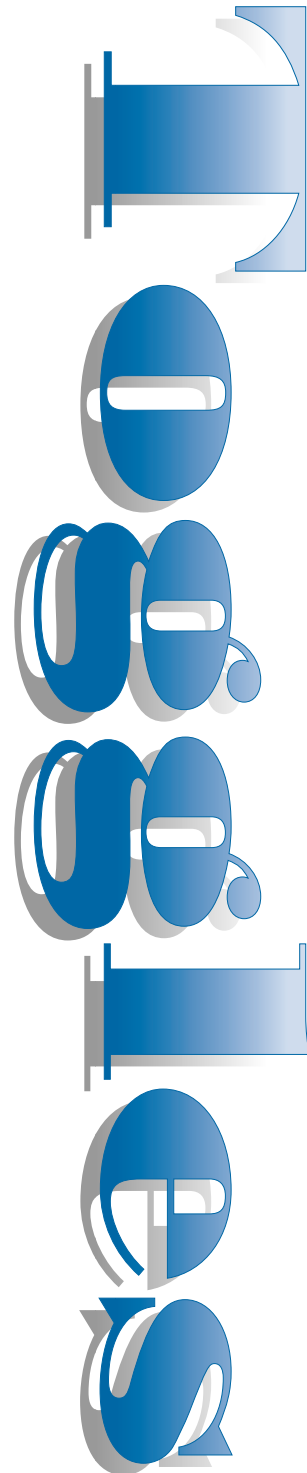
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| TT11IEGPC8T1/4 |C8 |
| TT11IEGPC9T1/4 |C11 |
| TT11IEGPC9T1/4ES |C16 |
| TT11EGRA1 |C8 |
| TT11EGRA3 |C8 |
| TT11EGRA40 |C8 |
| TT11EGRA42 |C8 |
| TT11EGRA46 |C8 |
| TT11EGRA7T1/4 |C12 |
| TT11EGRA9T1/4 |C8 |
| TT11EGVRA1 |C11 |
| TT11EGVRA1T |C8 |
| TT11EGVRA3T |C11 |
| TT11EGVW2T |C13 |
| TT11FGPC1T1/4 |C8 |
| TT11FGPC9T1/4 |C11 |
| TT11FGVRA7T1/4 |C12 |
| TT11FGRA9T1/4 |C8 |
| TT11FGVRA3T |C8 |
| TT12K8T1/4 |C8 |
| TT13A2T |C14 |
| TT13A3T |C15 |
| TT13A6T |C8 |
| TT13A6T0 |C8 |
| TT13A6T2 |C8 |
| TT13A9T1/4 |C15 |
| TT13D2T |C14 |
| TT13D2T1/4 |C8 |
| TT13D3T |C15 |
| TT13D4T0 |C8 |
| TT13D4T1/49 |C8 |
| TT13D6T0 |C8 |
| TT13D7T1/4 |C14 |
| TT13D9T1/4 |C15 |
| TT13D9T1/4ES |C8 |
| TT13DPC2TE |C8 |
| TT13E2T |C14 |
| TT13E3T |C15 |
| TT13E7T1/4 |C14 |
| TT13E9T1/4 |C15 |
| TT21KGPC1 |C10 |
| TT21KGPC9T1/4 |C11 |
| TT21KGPC9T1/4ES |C16 |
| TT21NG2T |C8 |
| TT21NGPC1 |C10 |
| TT21NGPC1ES |C16 |
| TT21NGPC1T |C8 |
| TT21NGPC1T1/4 |C8 |
| TT21NGPC2T1/4 |C8 |
| TT21NGPC4 |C8 |
| TT21NGPC7T1/4 |C8 |
| TT21NGPC8T1/4 |C8 |
| TT21NGPC9T1/4 |C11 |
| TT21NGPC9T1/4ES |C16 |
| TT21NGRA1 |C8 |
| TT21NGRA1ES |C8 |
| TT21NGRA3T1/4 |C8 |
| TT21NGRA7T1/4 |C12 |
| TT21NGRA8T1/4 |C8 |
| TT21NGRA9T1/4 |C8 |
| TT21NGVRA1 |C11 |

| | |
|------------------|-------------|
| TT21NGVRA3T |C11 |
| TT21NGWW2T |C13 |
| TT21PGPC1 |C10 |
| TT21PGPC3 |C8 |
| TT21PGPC7T1/4 |C8 |
| TT21PGPC8T1/4 |C8 |
| TT21PGPC9T1/4 |C11 |
| TT21PGPC9T1/4ES |C16 |
| TT21PGRA1 |C8 |
| TT21PGRA7T1/4 |C12 |
| TT21PGRA8T1/4 |C8 |
| TT21PGRA9T1/4 |C8 |
| TT21PGVRA1 |C11 |
| TT21PGWW2T |C13 |
| TT21RGPC1 |C8 |
| TT21RGPC7T1/4 |C8 |
| TT21RGPC9T1/4 |C11 |
| TT23K2T |C14 |
| TT23K3T |C15 |
| TT23K9T1/4 |C15 |
| TT23N2T |C14 |
| TT23N3T |C15 |
| TT23N4T1/40 |C8 |
| TT23N6T0 |C8 |
| TT23N6T6 |C8 |
| TT23N7T1/4 |C14 |
| TT23N9T1/4 |C15 |
| TT23NRA1 |C8 |
| TT23P2T |C14 |
| TT23P3T |C15 |
| TT23P6T0 |C8 |
| TT23P7T1/4 |C14 |
| TT23P8T1/4 |C8 |
| TT23P9T1/4 |C15 |
| TT41NGPC1 |C10 |
| TT41NGPC8T1/4 |C8 |
| TT41NGPC9T1/4 |C11 |
| TT41NGRA1 |C8 |
| TT41NGRA2T1/4 |C8 |
| TT41NGRA3 |C8 |
| TT41NGRA7T1/4 |C12 |
| TT41NGRA9T1/4 |C8 |
| TT41NGWW2T |C13 |
| TT41PGPC9T1/4 |C11 |
| TT43N2T |C15 |
| TT43N7T1/4 |C14 |
| TT43N9T1/4 |C15 |
| TT43P3T |C15 |
| TT43P7T1/4 |C14 |
| TT43P9T1/4 |C15 |
| TT41NGWW2T |C13 |
| TTE11AG9T1/4ES |C8 |
| TTE11AGPC3TES |C18 |
| TTE11AGPC9T1/4 |C8 |
| TTE11AGPC9T1/4ES |C18 |
| TTE11DGPC1ES |C17 |
| TTE11DGPC3TES |C18 |
| TTE11DGPC9T1/4ES |C18 |
| TTE11DGRA1ES |C17 |
| TTE11EG1 |C8 |
| TTE11EGPC1ES |C17 |
| TTE11EGPC3TES |C18 |
| TTE11EGPC9T1/4ES |C18 |
| TTE11EGRA1ES |C17 |
| TTE13A9T1/4 |C8 |
| TTE13D2T |C8 |
| TTE13D8T1/4 |C8 |
| TTE13D9T1/4 |C8 |
| TTE13DG2T |C8 |
| TTE13E8T1/4 |C8 |
| TTE21KGPC9T1/4ES |C18 |
| TTE21NG2T1/4ES |C8 |
| TTE21NGPC1ES |C8,C17 |
| TTE21NGPC3TES |C8,C18 |
| TTE21NGPC9T1/4ES |C18 |
| TTE21NGPC9T1/4ES |C8 |
| TTE21NGRA1ES |C8,C17 |
| TTE21NGT |C17 |
| TTE21PGPC1ES |C18 |
| TTE21PGPC3TES |C18 |
| TTE21PGPC9T1/4ES |C18 |
| TTE21PGRA1ES |C17 |
| TTE23N2T |C8 |
| TTE23N8T1/4 |C8 |
| TTE23N9T1/4 |C8 |
| TTE23NG2T |C8 |
| TTE23P8T1/4 |C8 |
| TTE41NGPC1 |C10 |
| TTE41NGWW2T |C13 |
| TTE43N8T1/4 |C8 |
| TTE43N9T1/4 |C8 |
| TTE43N9T1/4E |C8 |
| TTE43P8T1/4 |C8 |



Toggle Switches, Poles, Throws & Functions Selection Guide

SERIES/CURRENT RATING/PAGE NUMBER

ATE Series0.4VAPage C19
 A/AE Series 0.4VA ..5 Amps.....Page C22/35

TT Series0.4VA 3 AmpsPage C8
 TST Series0.4VAPage C5
 MT Series6 AmpsPage C43

C
Toggle Switch Selection Guide

| | SPDT | DPDT | 3PDT | 4PDT |
|---------------------------------|------------------------------------|--------------------------------|-------|----------------------|
| On - None - On 2 Position | ATE Gemini Tiny/TST Green | ATE Gemini Tiny Green | Green | Tiny Green ATE |
| On - Off - On 3 Position | ATE Gemini Tiny/TST Green | ATE Gemini Tiny Green | Green | Tiny Green |
| On - None - (On) 2 Position | ATE Gemini Tiny/TST Green | Gemini Tiny Green | Green | Tiny |
| (On) - Off - (On) 3 Position | ATE Gemini Green TST | ATE Gemini Green | Green | |
| On - Off - (On) 3 Position | Gemini Green | Gemini Green | Green | |
| On - On - On 3 Position | | Gemini Green | | Green |
| (On) - On - (On) 3 Positions | | Gemini Green | | |
| On - On - (On) 3 Position | | Gemini Green | | |
| On - Off 2 Position | Tiny | Tiny | | |

Toggle Switches, Tiny, Sealed, Through Hole and Surface Mount

FEATURES:

- Rating 0.4VA max. at 20VAC/DC
- High temperature plastics - Liquid crystal polymer (LCP)
- Specifically designed for thru-hole and surface mount applications - Tin lead plated terminals
- Washable process sealed construction - Internal actuator "O" Ring
- Ultrasonic welded case

MATERIAL SPECIFICATIONS:

ContactsCopper alloy with gold over nickel plate
 Case MaterialLCP
 Actuator MaterialNickel plated brass
 TerminalsCopper alloy with gold over nickel plating inside, tin plating outside
 Terminal SealEpoxy
 Support BracketTin plated steel

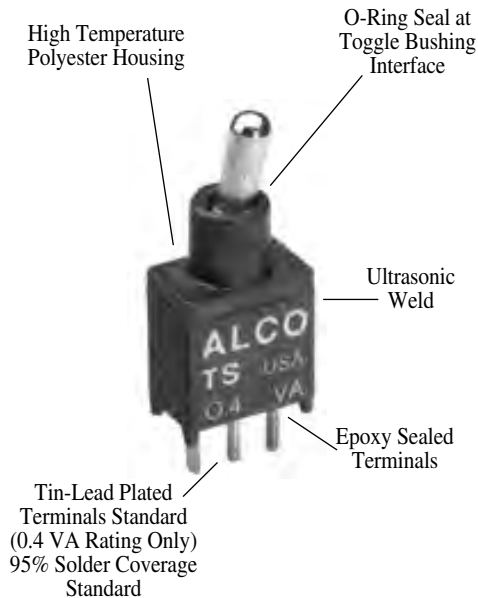
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VAC/DC
 Initial Contact Resistance20 Milliohms max.
 Contact TimingBreak-before-make
 Insulation Resistance1,000 Megohms 500 VDC min.
 Dielectric Strength1,000 Volt RMS @ sea level
 Actuator Travel22° for E and D function
 18° for F, G function
 Life ExpectancyD Function: Up to 80,000 cycles
 E Function: Up to 60,000 cycles
 F, G Function: Up to 30,000 cycles

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-22°F to +185°F (-30°C to +85°C)
 Storage Temperature.....-67°F to +185°F (-55°C to +85°C)

TST Series

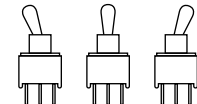


FUNCTION CHART

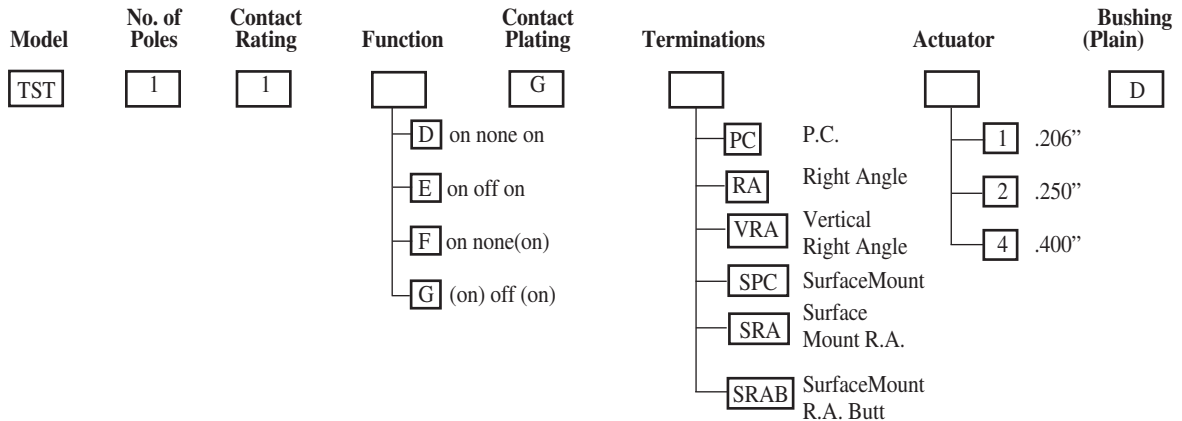
The following functions available in single pole.

- None - indicates no mechanical position.
- Off - indicates a mechanical position with no electrical connection.
- (On) - indicates momentary connection.

| | | | | |
|---------------------|-------------|------|------|------|
| D | 2 Positions | On | None | On |
| E | 3 Positions | On | Off | On |
| F | 2 Positions | On | None | (On) |
| G | 3 Positions | (On) | Off | (On) |
| Terminals Connected | | 1-2 | - | 2-3 |



PART NUMBERING MATRIX

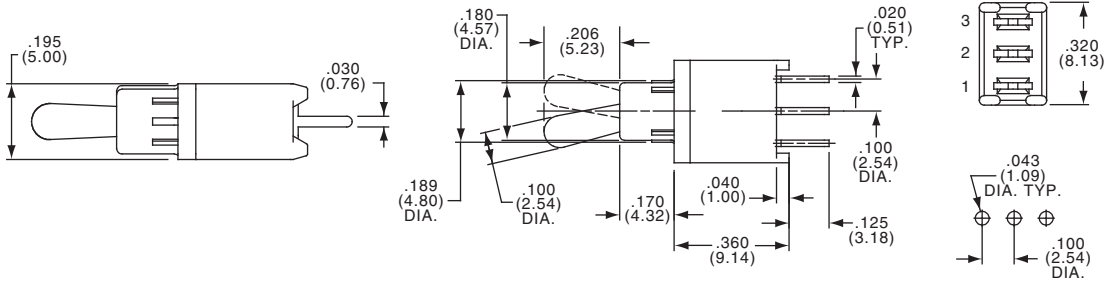


APPLICATION NOTE:

For sealed pushbutton switches, see page D3 - D5

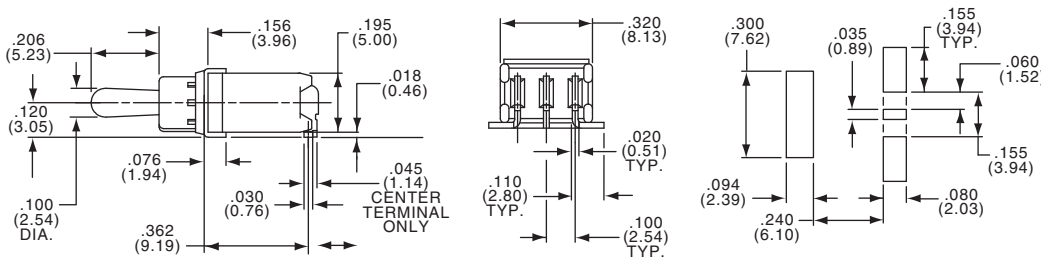
Toggle Switches, Tiny, Sealed, Through Hole and Surface Mount

PC MOUNT **PC**



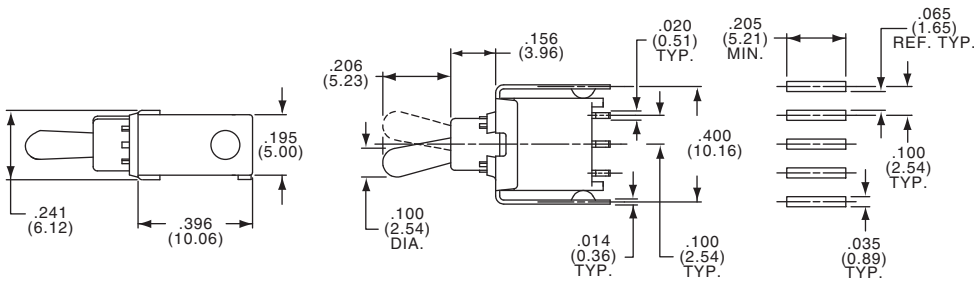
TST11DGPC1D

SURFACE MOUNT RIGHT ANGLE "L" BEND **SRA**



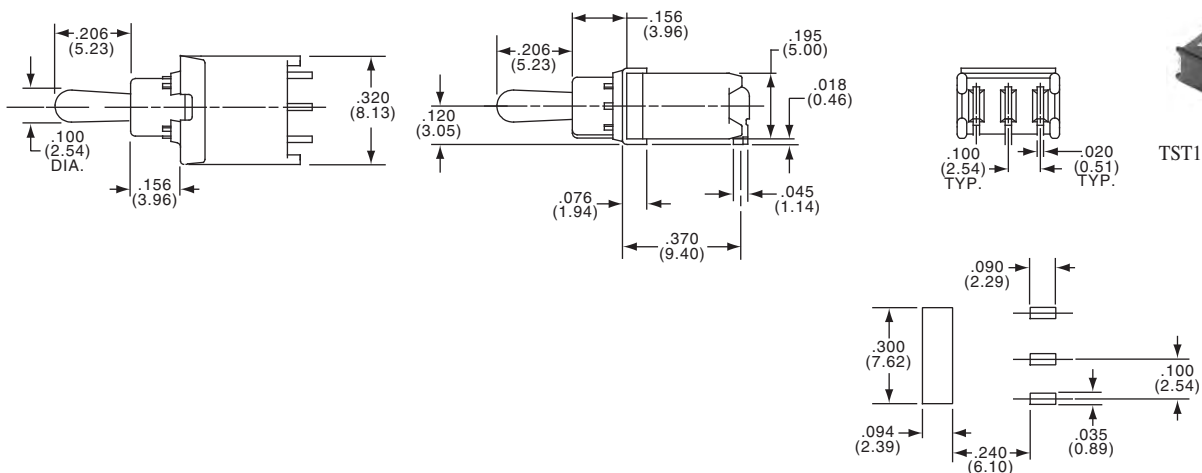
TST11DGSRA1D

SURFACE MOUNT **SPC**



TST11DGSPC1D

SURFACE MOUNT RIGHT ANGLE BUTT **SRAB**



TST11DGSRA1D

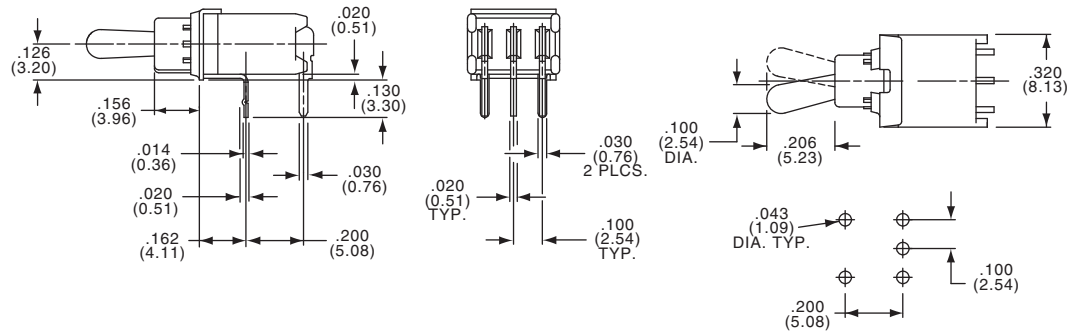
Toggle Switches, Tiny, Sealed, Through Hole and Surface Mount

RA

Right Angle



TST11DGRA1D

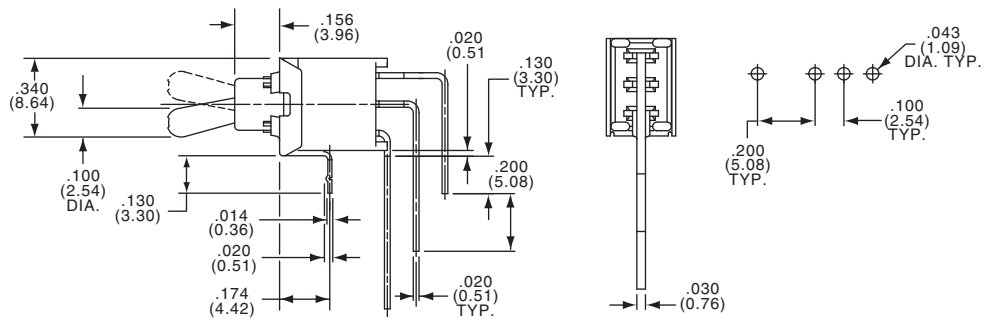


VRA

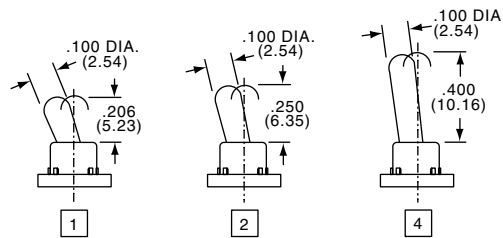
Vertical Right Angle



TST11DGVRA1D



ACTUATORS



TST Series

Toggle Switches, Tiny, Part Number Matrix

MATERIAL SPECIFICATIONS:

Contacts.....Gold over nickel or silver plate
 Case Material.....Thermoplastic 94V-0
 Terminals/Fixed Contacts.....Tin lead plate
 Terminal Seal.....Epoxy on single pole, optional
 on double pole
 Process Seal.....ES version only (see page C16 - C17)

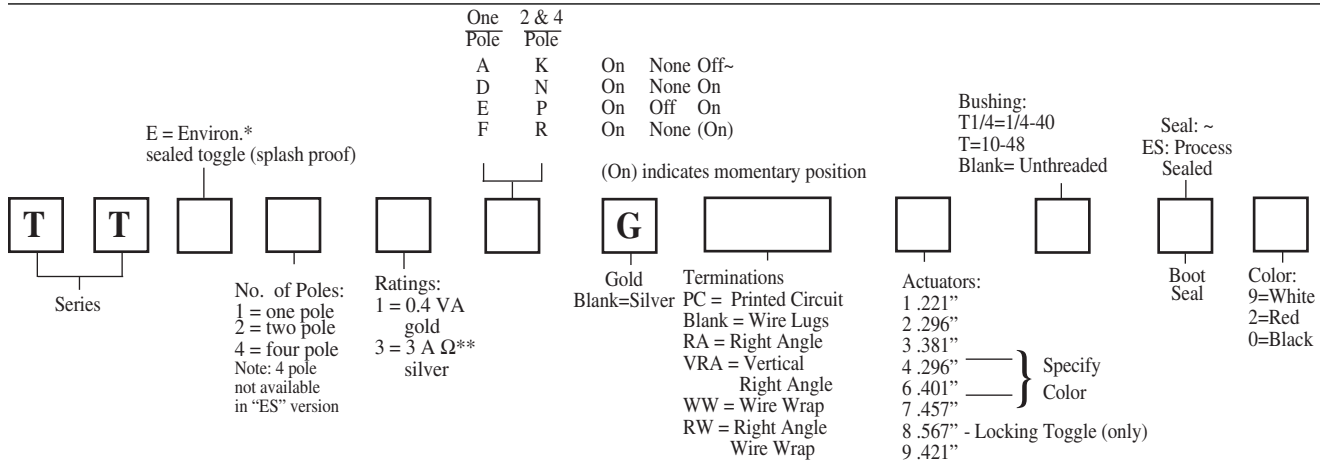
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-22°F to +185°F (-30°C to +85°C)
 Storage Temperature.....-67°F to +185°F (-55°C to +85°C)
 Solder Heat Resistance.....See page M3-4
 U.L. (File E-46765).....Silver only

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating..... Gold: 0.4 VA max. @ 20 VDC or peak AC
 Silver (2 pos.): 3 A @ 125 VAC or 28 VDC
 Silver (3 pos.): 2 A @ 125 VAC or 28 VDC
 Initial Contact Resistance..... 20 Milliohms max.
 Contact Timing..... Break before Make
 Insulation Resistance..... 1,000 Megohms 500 VDC min.
 Dielectric Strength..... 1,000 Volts RMS @ sea level
 Plunger/Actuator Travel..... 26°
 High Torque Bushing Shoulder Yes
 Life Expectancy..... See chart below
 Note: Hardware included with switch

TT Series



| One Pole | 0.4VA | 80,000 (2 Pos.) | 60,000 (3 Pos.) |
|------------|-------|-----------------|-----------------|
| Two Pole | 0.4VA | 80,000 (2 Pos.) | 60,000 (3 Pos.) |
| Three Pole | 3 Amp | 20,000 (2 Pos.) | 10,000 (3 Pos.) |
| Four Pole | 0.4VA | 80,000 (2 Pos.) | 60,000 (3 Pos.) |
| Five Pole | 3 Amp | 20,000 (2 Pos.) | 10,000 (3 Pos.) |

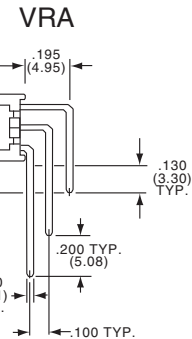
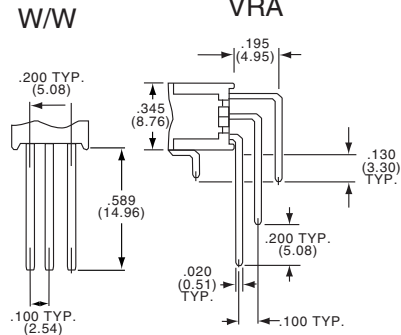
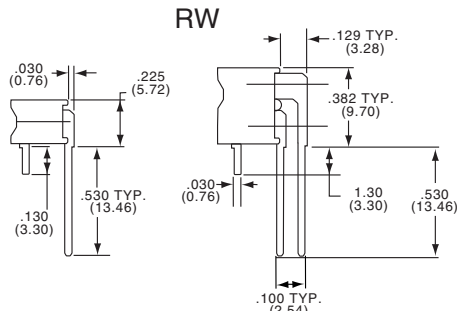
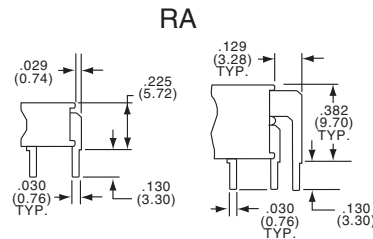
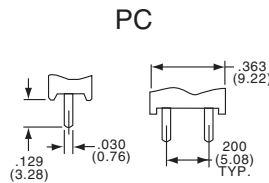
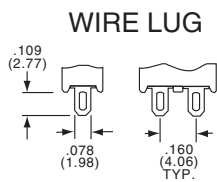
APPLICATION NOTE:

For surface mount termination, use the "TST" series on page C5.
 For 3 pole refer to the MT Series on page C43

| Actuator Dimensions shown with | |
|--------------------------------|----------------|
| 1,2,3,4,6 | 10-48 bushing |
| 7,8,9 | 1/4-40 bushing |

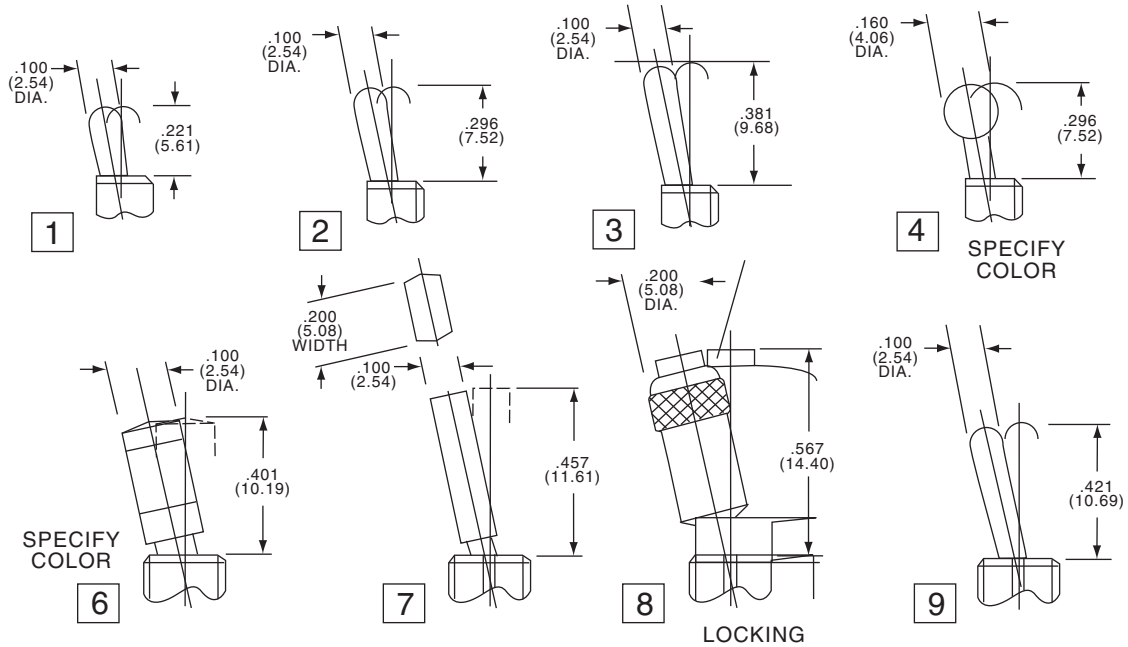
* Not available on 7 actuator or with VRA.
 ** Not available in RA.
 Ω Available in PC & WL only.
 ~ Available in WL & PC only.

TERMINATIONS



Toggle Switches, Tiny, Actuator and Bushing Options

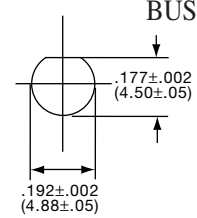
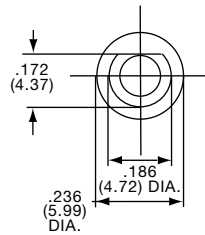
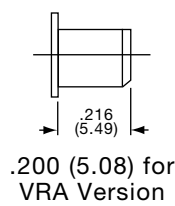
Toggle Cap
Series C-11*
Available



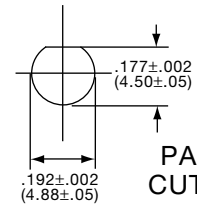
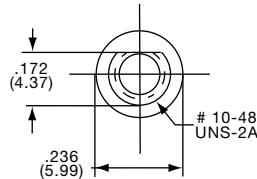
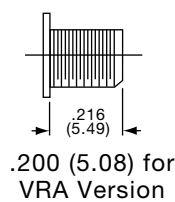
TT Series

BUSHINGS

BLANK

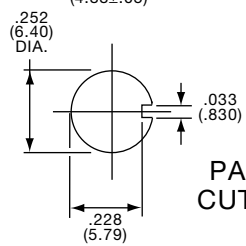
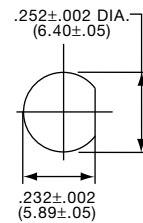
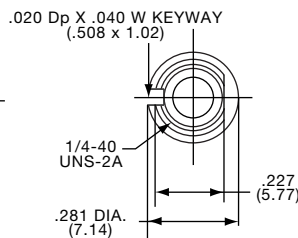
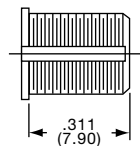


T



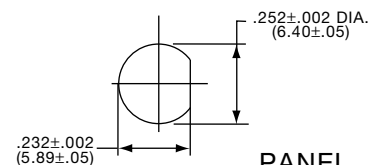
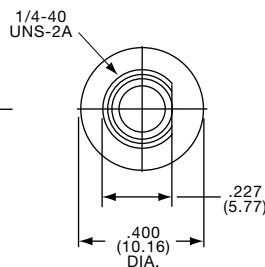
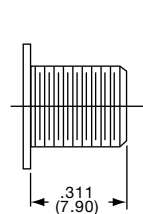
PANEL CUTOUT

T1/4



PANEL CUTOUT

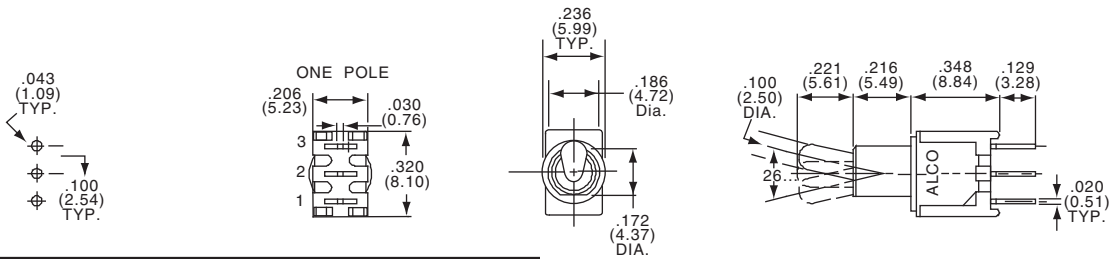
*T1/4



PANEL CUTOUT

*VERSION USED ON TTE(Enviromental Sealed) Series

Toggle Switches, Tiny, Vertical, PC Mount



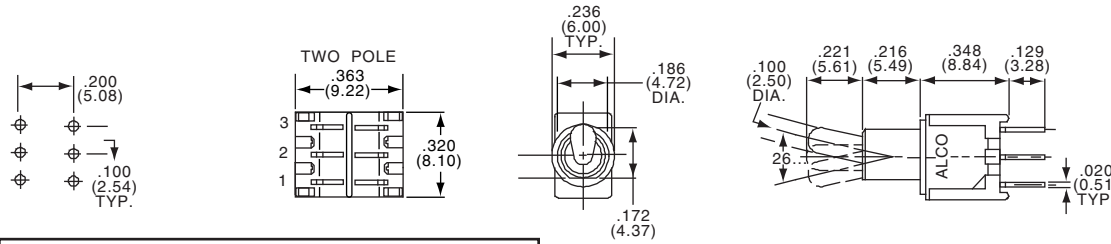
1 POLE
For Terminal Connections refer to Code Chart (see page M5-6)



TT11DGPC1

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. | M5 | ↘ | ↓ | ↙ |
|------------------|------------|------|-----------|----|------|-----|---|---|
| 2-1437561-3 | TT11AGPC1 | SPST | A | On | None | Off | | |
| 2-1437561-6 | TT11DGPC1 | SPDT | D | On | None | On | | |
| 5-1437561-1 | TT11EGPC1 | SPDT | E | On | Off | On | | |

Note: No center terminal on "A" switches



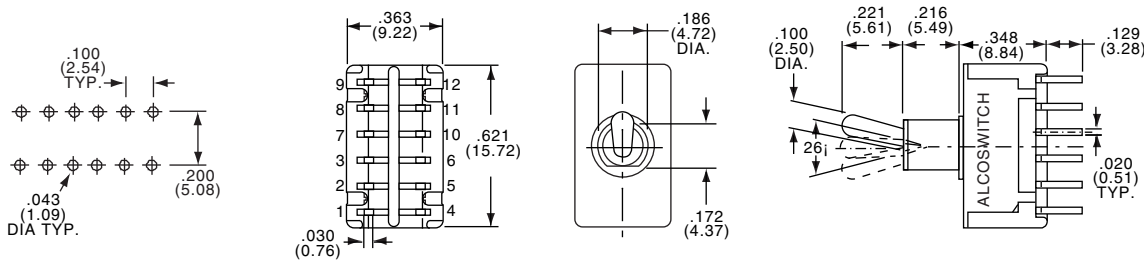
2 POLE
For Terminal Connections refer to Code Chart (see page M5-6)



TT21NGPC1

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. | M5 | ↘ | ↓ | ↙ |
|------------------|------------|------|-----------|----|------|-----|---|---|
| 9-1437561-9 | TT21KGPC1 | DPST | K | On | None | Off | | |
| 1437562-3 | TT21NGPC1 | DPDT | N | On | None | On | | |
| 3-1437562-4 | TT21PGPC1 | DPDT | P | On | Off | On | | |

Note: No center terminal on "K" switches



4 POLE



TT41NGPC1

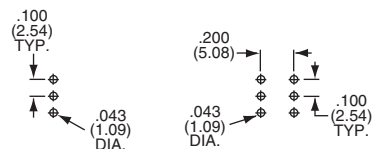
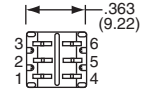
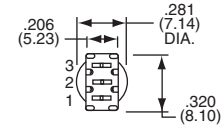
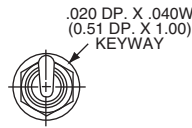
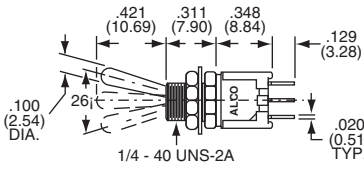
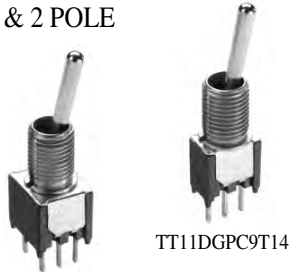
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. | M5 | ↘ | ↓ | ↙ |
|------------------|------------|------|-----------|----|------|----|---|---|
| 6-1437562-6 | TT41NGPC1 | 4PDT | N | On | None | On | | |

Toggle Switches, Tiny, Vertical and Vertical Right Angle, PC Mount

SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart on page M5-6

1 & 2 POLE



TT21NGPC9T1/4

TT1DGPC9T14

4 POLE



TT41NGPC9T1/4

| Tyco Electronics | Alcoswitch | Type | Act. | Code | P. | M5 | Tyco Electronics | Alcoswitch | Type | Act. | Code | P. | M5 |
|------------------|---------------|------|------|------|------|-----|------------------|---------------|------|------|------|------|------|
| 2-1437561-5 | TT11AGPC9T1/4 | SPST | A | On | None | Off | 1-1437562-1 | TT21NGPC9T1/4 | DPDT | N | On | None | On |
| 3-1437561-5 | TT11DGPC9T1/4 | SPDT | D | On | None | On | 3-1437562-8 | TT21PGPC9T1/4 | DPDT | P | On | Off | On |
| 5-1437561-9 | TT11EGPC9T1/4 | SPDT | E | On | Off | On | 4-1437562-6 | TT21RGPC9T1/4 | DPDT | R | On | None | (On) |
| 7-1437561-3 | TT11FGPC9T1/4 | SPDT | F | On | None | On | 6-1437562-8 | TT41NGPC9T1/4 | 4PDT | N | On | None | On |
| 1437562-1 | TT21KGPC9T1/4 | DPST | K | On | None | Off | 7-1437562-5 | TT41PGPC9T1/4 | 4PDT | P | On | Off | On |

Note: No center terminal on "A" or "K" switches.

(On) indicates momentary position.

Note: Hardware Included

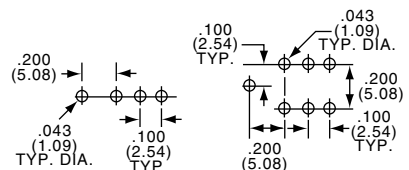
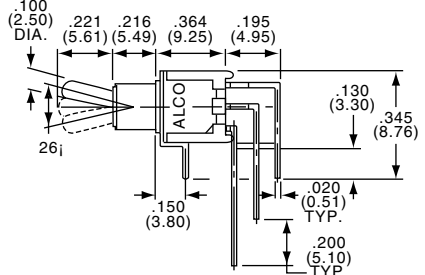
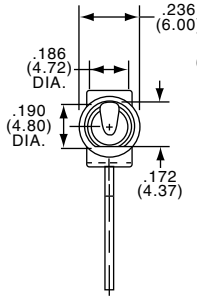
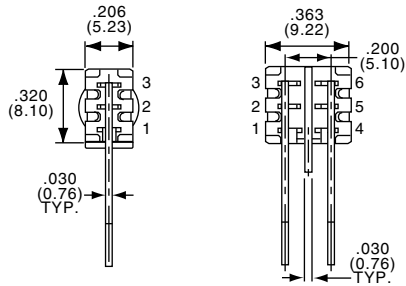
1 & 2 POLE



TT1DGVRA1
Vertical Actuation



TT21NGVRA1
Vertical Actuation



| Tyco Electronics | Alcoswitch | Type | Act. | Code | P. | M5 |
|------------------|------------|------|------|------|------|----|
| 4-1437561-8 | TT11DGVRA1 | SPDT | D | On | None | On |
| 6-1437561-9 | TT11EGVRA1 | SPDT | E | On | Off | On |
| 2-1437562-2 | TT21NGVRA1 | DPDT | N | On | None | On |
| 4-1437562-3 | TT21PGVRA1 | DPDT | P | On | Off | On |

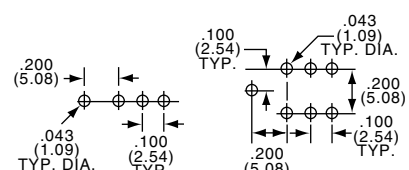
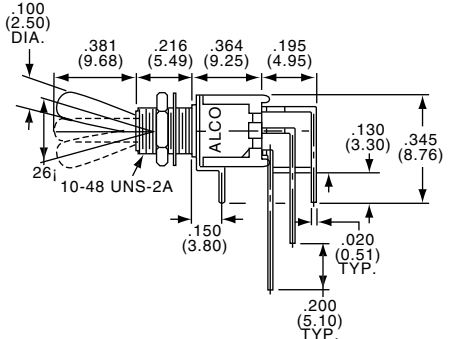
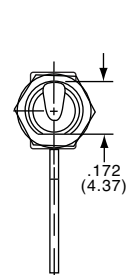
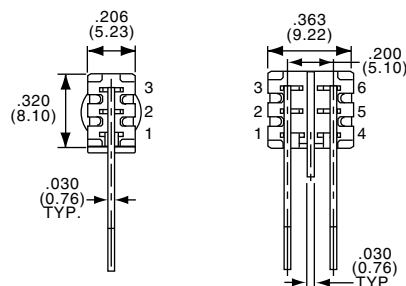
1 & 2 POLE



TT1DGVRA3T
Vertical Actuation



TT21NGVRA3T
Vertical Actuation



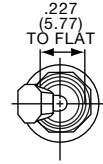
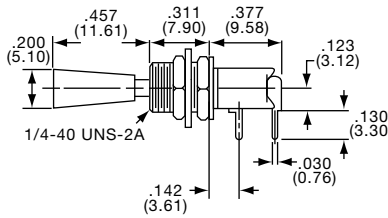
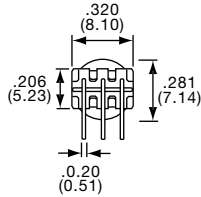
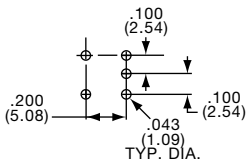
| Tyco Electronics | Alcoswitch | Type | Act. | Code | P. | M5 |
|------------------|-------------|------|------|------|------|----|
| 4-1437561-9 | TT11DGVRA3T | SPDT | D | On | None | On |
| 7-1437561-0 | TT11EGVRA3T | SPDT | E | On | Off | On |
| 2-1437562-3 | TT21NGVRA3T | DPDT | N | On | None | On |

Toggle Switches, Tiny, Right Angle, Flat Actuator

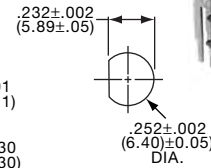
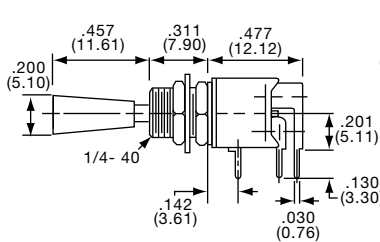
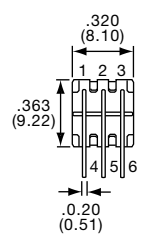
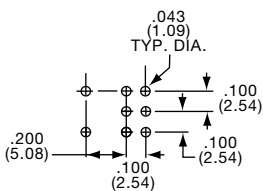
SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

* Refer to Page C8 for Other Options *

1 & 2 POLE FLAT



TT11DGRA7T1/4
Horizontal Actuation



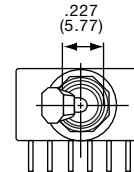
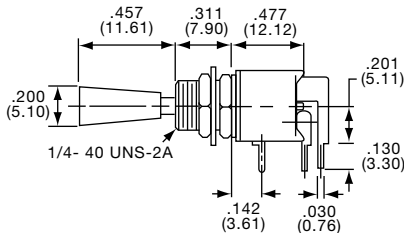
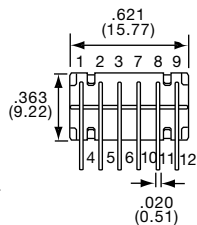
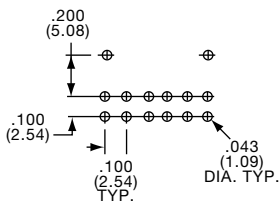
TT21NGRA7T1/4
Horizontal Actuation

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
|------------------|---------------|------|-----------|-------|----|------|------|
| 4-1437561-5 | TT11DGRA7T1/4 | SPDT | D | | On | None | On |
| 6-1437561-7 | TT11EGRA7T1/4 | SPDT | E | | On | Off | On |
| 7-1437561-4 | TT11FGRA7T1/4 | SPDT | F | | On | None | (On) |
| 1-1437562-9 | TT21NGRA7T1/4 | DPDT | N | | On | None | On |
| 4-1437562-0 | TT21PGRA7T1/4 | DPDT | P | | On | Off | On |

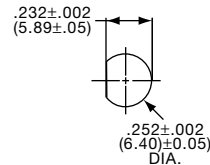
(On) indicates momentary position

Pinned for Anti-Rotation

4 POLE FLAT



TT41NGRA7T14
Horizontal Actuation



| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
|------------------|---------------|------|-----------|-------|----|------|----|
| 7-1437562-2 | TT41NGRA7T1/4 | 4PDT | N | | On | None | On |

Pinned for Anti-Rotation

Toggle Switches, Tiny, Wire Wrap Termination

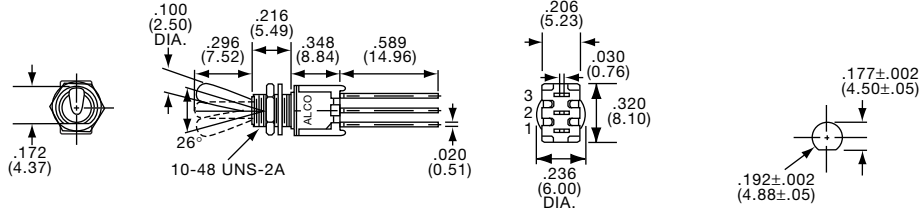
SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart on page M5-6

1 POLE



TT11DGWW2T

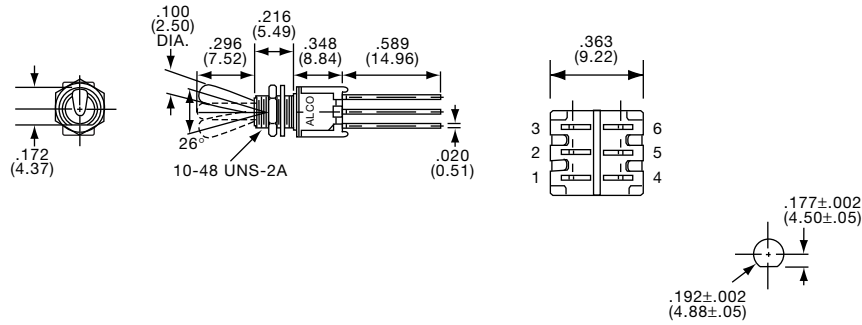


| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | | |
|------------------|------------|------|-----------------|----|---------|
| 5-1437561-0 | TT11DGWW2T | SPDT | D | On | None On |
| 7-1437561-1 | TT11EGWW2T | SPDT | E | On | Off On |

2 POLE



TT21NGWW2T

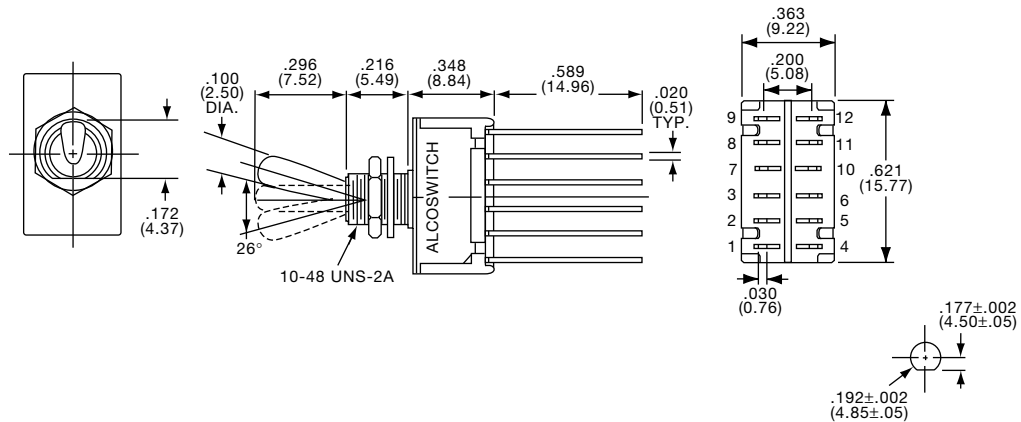


| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | | |
|------------------|------------|------|-----------------|----|---------|
| 2-1437562-4 | TT21NGWW2T | DPDT | N | On | None On |
| 4-1437562-4 | TT21PGWW2T | DPDT | P | On | Off On |

4 POLE



TT41NGWW2T



| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | | |
|------------------|------------|------|-----------------|----|---------|
| 7-1437562-4 | TT41NGWW2T | 4PDT | N | On | None On |

Toggle Switches, Tiny, Wire Lug, Round or Flat Actuators

SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart on page M5-6

NOTICE: Wire lug terminals accept two No. 20 AWG wires.



1 & 2 POLE



TT13D2T



TT23N2T

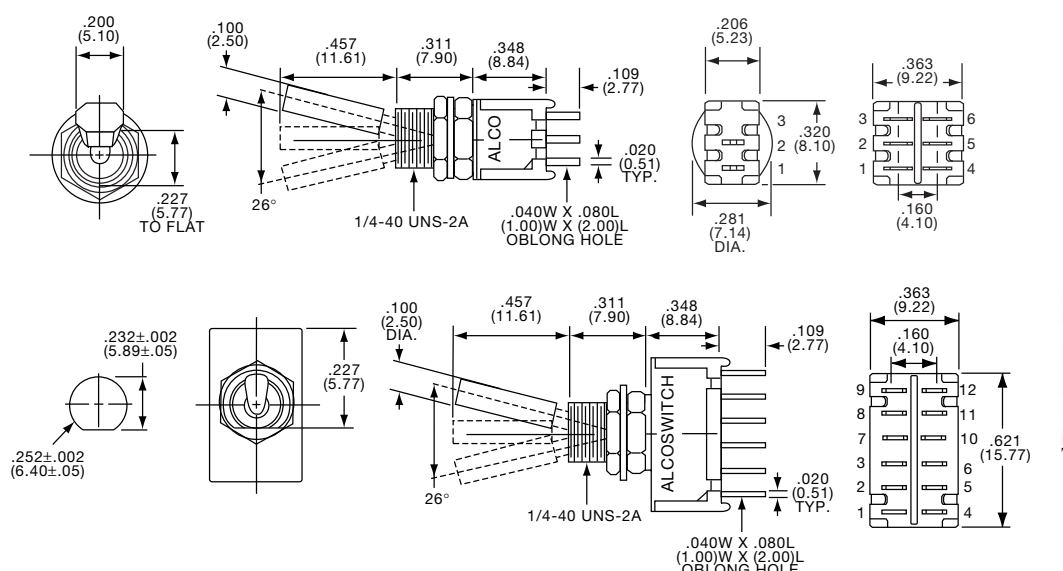
4 POLE



TT43N2T

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | Off | Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | Off |
|------------------|------------|------|-----------------|----|------|-----|------------------|------------|------|-----------------|----|------|-----|
| 7-1437561-8 | TT13A2T | SPST | A | On | None | Off | 5-1437562-1 | TT23N2T | DPDT | N | On | None | On |
| 8-1437561-5 | TT13D2T | SPDT | D | On | None | On | 5-1437562-7 | TT23P2T | DPDT | P | On | Off | On |
| 9-1437561-5 | TT13E2T | SPDT | E | On | Off | On | 7-1437562-6 | TT43N2T | 4PDT | N | On | None | On |
| 4-1437562-7 | TT23K2T | DPST | K | On | None | Off | | | | | | | |

Note: No center terminal "A" or "K" action switches.



1 & 2 POLE



TT13D7T1/4



TT23N7T1/4

4 POLE



TT43N7T1/4

Pinned for Anti-Rotation

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | Off | Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | Off |
|------------------|------------|------|-----------------|----|------|-----|------------------|------------|------|-----------------|----|------|-----|
| 9-1437561-1 | TT13D7T1/4 | SPDT | D | On | None | On | 6-1437562-0 | TT23P7T1/4 | DPDT | P | On | Off | On |
| 9-1437561-7 | TT13E7T1/4 | SPDT | E | On | Off | On | 7-1437562-8 | TT43N7T1/4 | 4PDT | N | On | None | On |
| 5-1437562-5 | TT23N7T1/4 | DPST | N | On | None | On | | TT43P7T1/4 | 4PDT | P | On | Off | On |

Toggle Switches, Tiny, Wire Lug, Long Actuators

SEE PAGE C8 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart on page M5-6

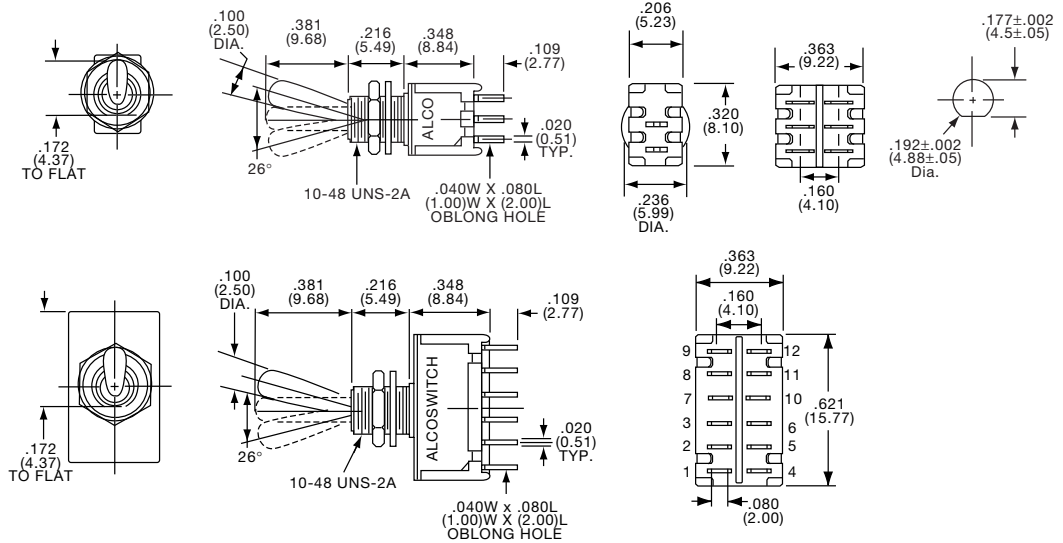
1 & 2 POLE



TT13D3T



TT23N3T



| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | Off | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | Off |
|------------------|------------|------|-----------|-------|----|------|-----|------------------|------------|------|-----------|-------|----|------|-----|
| 8-1437561-0 | TT13A3T | SPST | A | | On | None | Off | 5-1437562-8 | TT23P3T | DPDT | P | | On | Off | On |
| 8-1437561-8 | TT13D3T | SPDT | D | | On | None | On | 7-1437562-7 | TT43N3T | 4PDT | N | | On | None | On |
| 9-1437561-6 | TT13E3T | SPDT | E | | On | Off | On | 8-1437562-0 | TT43P3T | 4PDT | P | | On | Off | On |
| 4-1437562-8 | TT23K3T | DPST | K | | On | None | Off | | | | | | | | |
| 5-1437562-2 | TT23N3T | DPDT | N | | On | None | On | | | | | | | | |

Note: No center terminal on "A" or "K" action switches.

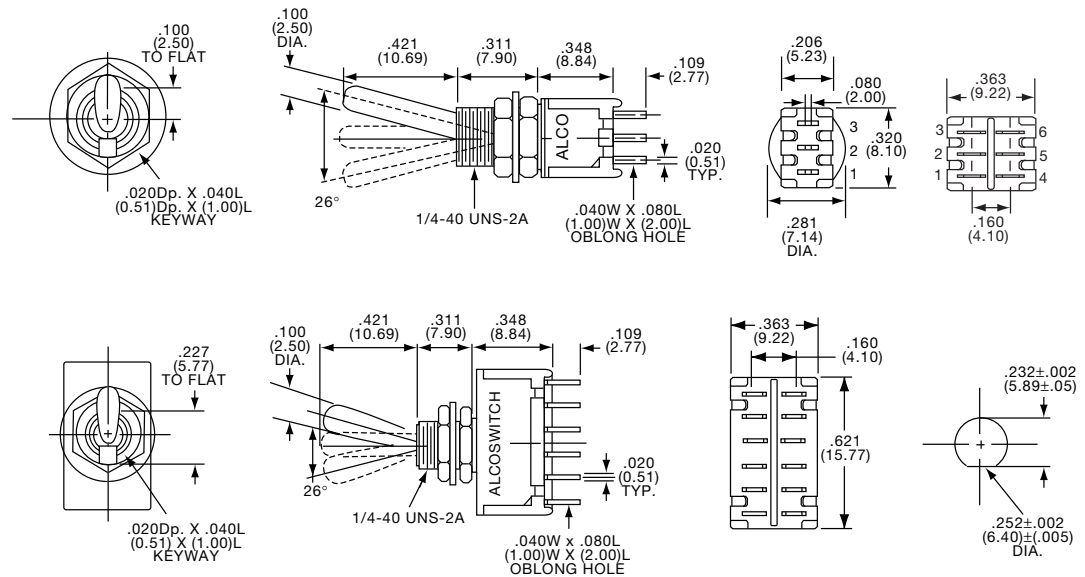
1 & 2 POLE



TT13A9T1/4



TT23N9T1/4



| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | Off | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | Off |
|------------------|------------|------|-----------|-------|----|------|-----|------------------|------------|------|-----------|-------|----|------|-----|
| 8-1437561-4 | TT13A9T1/4 | SPST | A | | On | None | Off | 6-1437562-2 | TT23P9T1/4 | DPDT | P | | On | Off | On |
| 9-1437561-2 | TT13D9T1/4 | SPDT | D | | On | None | On | 7-1437562-9 | TT43N9T1/4 | 4PDT | N | | On | None | On |
| 9-1437561-8 | TT13E9T1/4 | SPDT | E | | On | Off | On | 8-1437562-1 | TT43P9T1/4 | 4PDT | P | | On | Off | On |
| 4-1437562-9 | TT23K9T1/4 | DPST | K | | On | None | Off | | | | | | | | |
| 5-1437562-6 | TT23N9T1/4 | DPDT | N | | On | None | On | | | | | | | | |

Note: No center terminal on "A" or "K" action switches.

4 POLE



TT43N9T1/4

Toggle Switches, Process Sealed, Vertical

MATERIAL SPECIFICATIONS:

ContactsGold over nickel
 Inner Case MaterialHigh temperature polyester
 Outer Case MaterialPolyamide
 Terminals/Fixed ContactsTin lead plate
 Terminal SealEpoxy
 Process SealDisposable boot, epoxied double case

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4VA Max. @ 20 VDC or peak AC
 Initial Contact Resistance.....20 Milliohms max.
 Contact Timing.....Break-before-make
 Insulation Resistance1,000 Megohms min. 500 VDC
 Dielectric Strength1,000 Volts RMS @ sea level
 Plunger/Actuator Travel.....26°
 Life ExpectancySee page C8

ENVIRONMENTAL SPECIFICATIONS

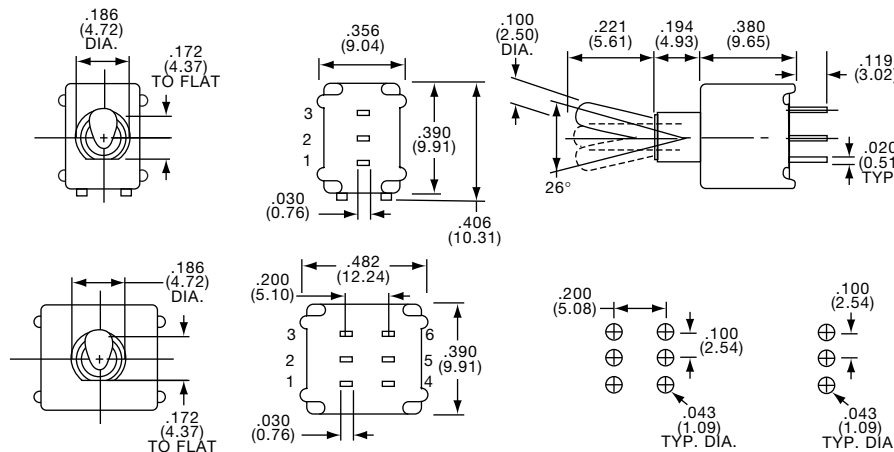
Operating Temperature-22°F to +185°F (-30°C to +85°C)
 Storage Temperature-67°F to +185°F (-55°C to +85°C)
 Solder Heat Resistance.....See page M3-4

APPLICATION NOTE: Each switch is provided with a disposable boot used only during cleaning operation.

* Refer to Page C8 for Other Options *

Note: Hardware included with switch

TT-ES Series



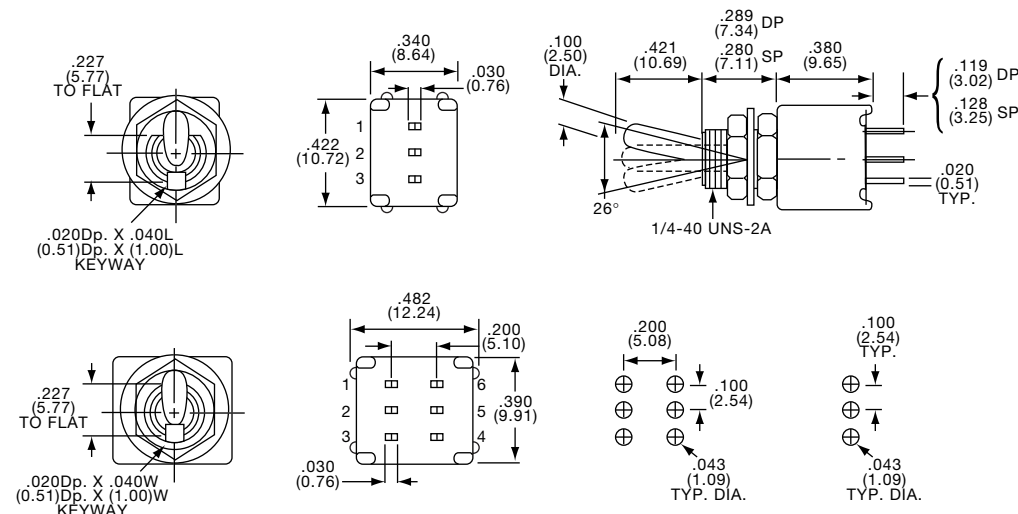
1 & 2 POLE
UNTHREADED BUSHING



TT11DGPC1ES

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | Off | Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | On |
|------------------|-------------|------|-----------------|----|------|-----|------------------|-------------|------|-----------------|----|------|----|
| 2-1437561-4 | TT11AGPC1ES | SPST | A | On | None | Off | 1437562-4 | TT21NGPC1ES | DPDT | N | On | None | On |
| 2-1437561-7 | TT11DGPC1ES | SPDT | D | On | None | On | | | | | | | |

Note: No center terminal "A".



1 & 2 POLE
THREADED BUSHING



TT11DGPC9T1/4ES



TT21NGPC9T1/4ES

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | Off | Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | On |
|------------------|-----------------|------|-----------------|----|------|------|------------------|-----------------|------|-----------------|----|------|----|
| | TT11AGPC9T1/4ES | SPST | A | On | None | Off | 1-1437562-2 | TT21NGPC9T1/4ES | DPDT | N | On | None | On |
| 6-1437830-2 | TT11DGPC9T1/4ES | SPDT | D | On | None | On | | TT21PGPC9T1/4ES | DPDT | P | On | Off | On |
| | TT11EGPC9T1/4ES | SPDT | E | On | Off | (On) | | | | | | | |
| | TT21KGPC9T1/4ES | DPST | K | On | None | Off | | | | | | | |

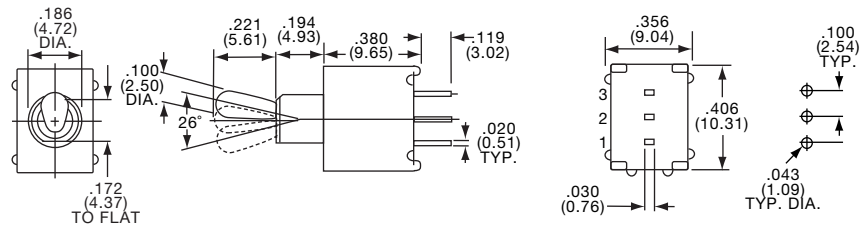
Note: No center terminal "A" or "K" action switches.
 (On) indicates momentary position.

Toggle Switches, Tiny, Enviromental and Process Sealed

SEE PAGE C16 FOR PRODUCT SPECIFICATIONS

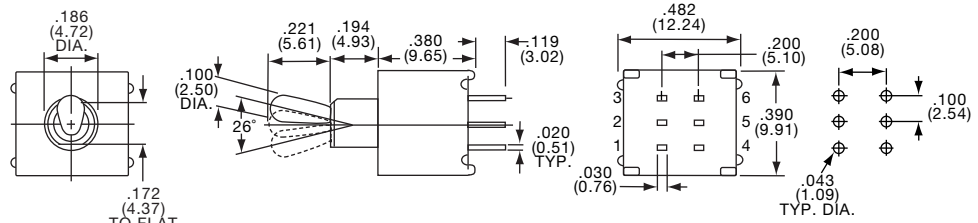
For terminal connections refer to Code Chart on page M5-6

1 POLE-PC VERTICAL MOUNT



| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | | | |
|------------------|--------------|------|-----------------|----|------|----|
| 8-1437562-6 | TTE11DGPC1ES | SPDT | D | On | None | On |
| | TTE11EGPC1ES | SPDT | E | On | Off | On |

2 POLE-PC VERTICAL MOUNT

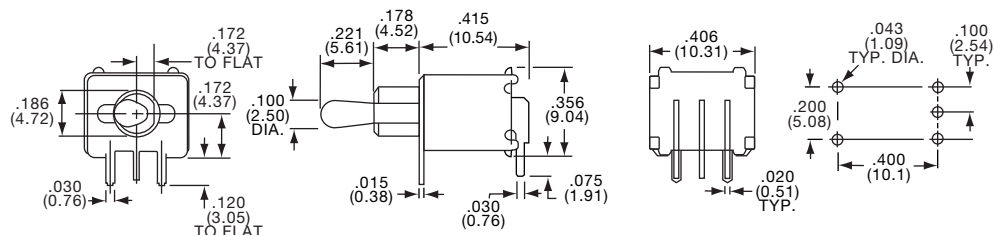


| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | | | |
|------------------|--------------|------|-----------------|----|------|----|
| 1437563-1 | TTE21NGPC1ES | DPDT | N | On | None | On |
| | TTE21PGPC1ES | DPDT | P | On | Off | On |

1 POLE-PC RIGHT ANGLE



TTE11DGRA1ES
Horizontal Actuation

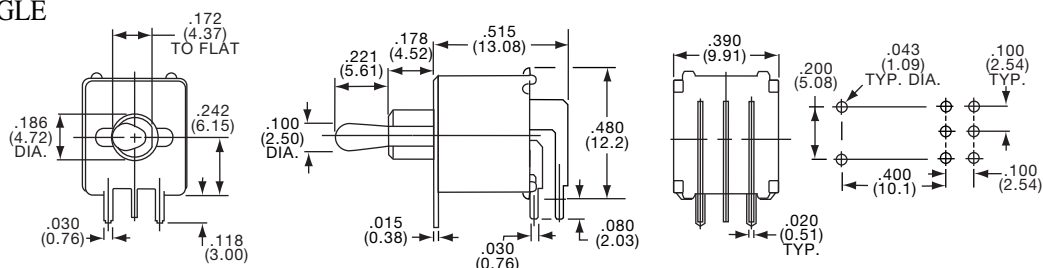


| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | | | |
|------------------|--------------|------|-----------------|----|------|----|
| 8-1437562-9 | TTE11DGRA1ES | SPDT | D | On | None | On |
| 9-1437562-2 | TTE11EGRA1ES | SPDT | E | On | Off | On |

2 POLE-PC RIGHT ANGLE



TTE21NGRA1ES
Horizontal Actuation



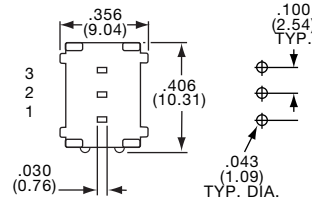
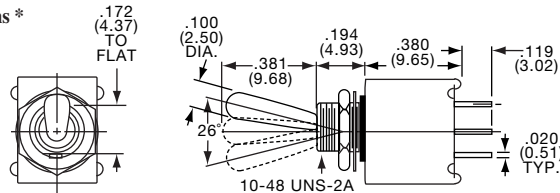
| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | | | |
|------------------|--------------|------|-----------------|----|------|----|
| 1437563-4 | TTE21NGRA1ES | DPDT | N | On | None | On |
| | TTE21PGRA1ES | DPDT | P | On | Off | On |

Toggle Switches, Tiny, Enviromental and Process Sealed

For terminal connections refer to Code Chart on page M5-6.

SEE PAGE C16 FOR PRODUCT SPECIFICATIONS

* Refer to Page C8 for Other Options *



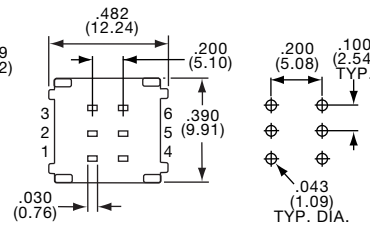
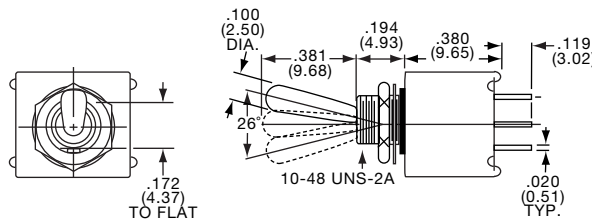
1 POLE



TTE11DGPC3TES

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | Off |
|------------------|---------------|------|-----------|-------|----|------|-----|
| 8-1437562-5 | TTE11AGPC3TES | SPST | A | | On | None | Off |
| 8-1437562-7 | TTE11DGPC3TES | SPDT | D | | On | None | On |
| 9-1437562-0 | TTE11EGPC3TES | SPDT | E | | On | Off | On |

Note: No center terminal on "A" action switches.

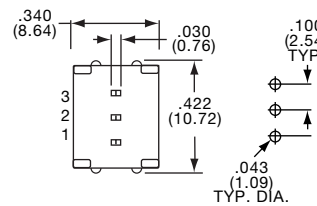
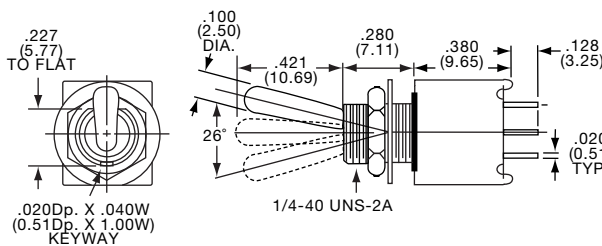


2 POLE



TTE21NGPC3TES

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
|------------------|---------------|------|-----------|-------|----|------|----|
| 1437563-2 | TTE21NGPC3TES | DPDT | N | | On | None | On |
| | TTE21PGPC3TES | DPDT | P | | On | Off | On |



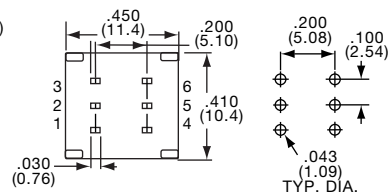
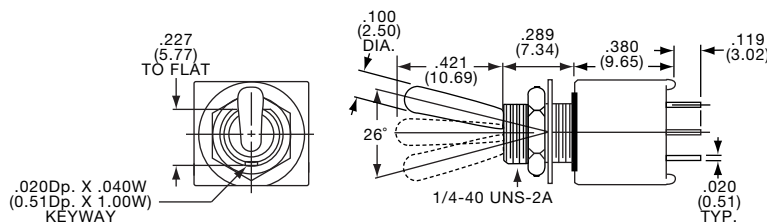
1 POLE



TTE11DGPC9T4ES

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | Off |
|------------------|------------------|------|-----------|-------|----|------|-----|
| | TTE11AGPC9T1/4ES | SPST | A | | On | None | Off |
| 8-1437562-8 | TTE11DGPC9T1/4ES | SPDT | D | | On | None | On |
| 9-1437562-1 | TTE11EGPC9T1/4ES | SPDT | E | | On | Off | On |

Note: No center terminal on "A" action switches.



2 POLE



TTE21NGPC9T4ES

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | Off |
|------------------|------------------|------|-----------|-------|----|------|-----|
| | TTE21KGPC9T1/4ES | DPST | K | | On | None | Off |
| 1437563-3 | TTE21NGPC9T1/4ES | DPDT | N | | On | None | On |
| | TTE21PGPC9T1/4ES | DPDT | P | | On | Off | On |

Note: No center terminal on "K" action switches.

Toggle Switches, Process Sealed, Vertical and Right Angle, Round Actuator

MATERIAL SPECIFICATIONS:

ContactsGold over nickel plate
 Case MaterialPolyester 94V-0
 Actuator MaterialNickel plated copper alloy
 TerminalsPhosphor bronze
 Terminal SealEpoxy
 Process SealTested to MIL-STD-202, method 112
 (Internal O-Ring) test condition A and D, 85°C

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA Max. @ 20 VDC
 Initial Contact Resistance100 Milliohms max.
 Contact TimingBreak-before-make
 Insulation Resistance500 Megohms @ 250 VDC min.
 Dielectric Strength500 Volts RMS @ sea level
 Actuation Force400 Grams
 Life ExpectancyUp to 10,000 Cycles

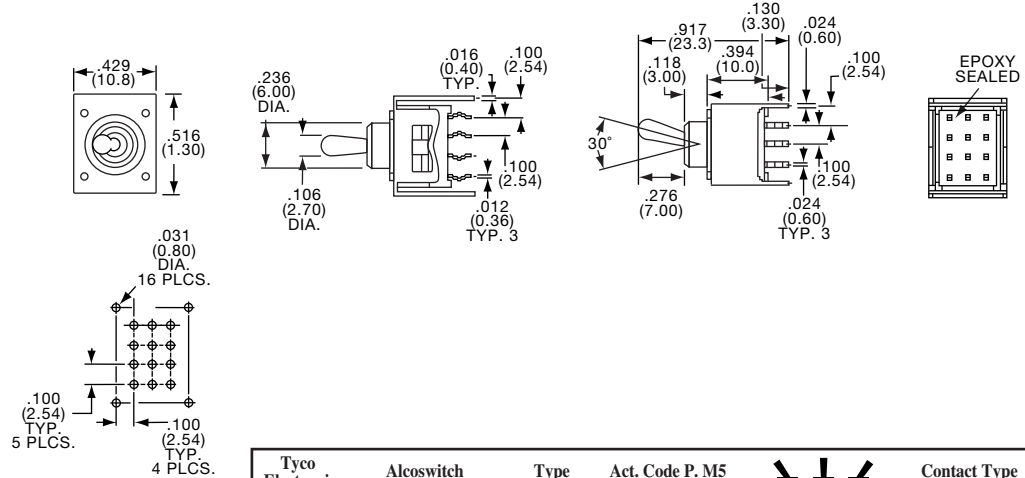
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
 Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

4PDT



ATE4DGPC2

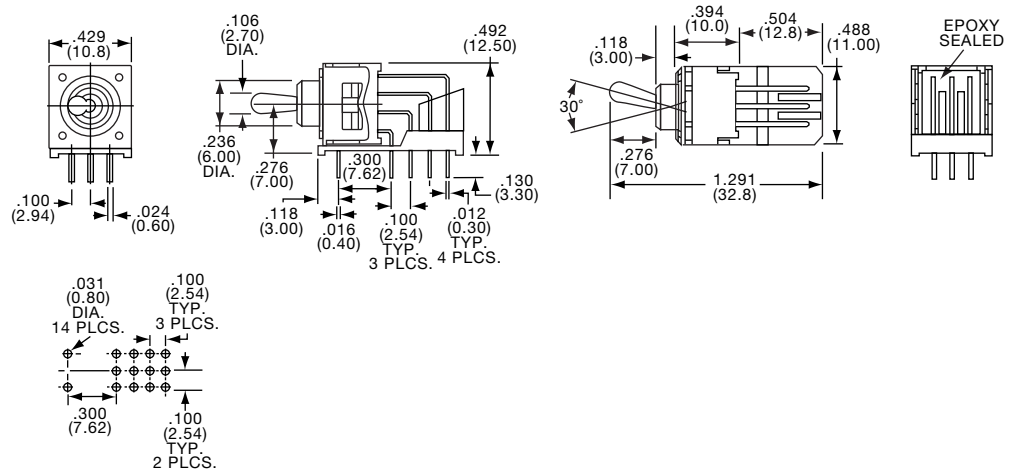


| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | Contact Type |
|------------------|------------|------|-----------------|-----------------|
| 2-1437557-1 | ATE4DGPC2 | 4PDT | 8 | On None On Gold |

4PDT



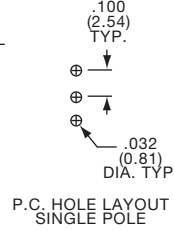
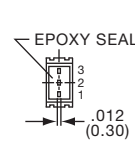
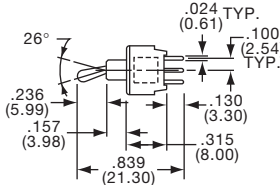
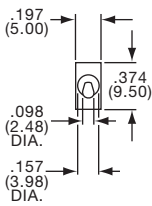
ATE4DGRA2



| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | Contact Type |
|------------------|------------|------|-----------------|-----------------|
| 2-1437557-2 | ATE4DGRA2 | 4PDT | 8 | On None On Gold |

Toggle Switches, Process Sealed, Vertical, Round or Flat Actuators

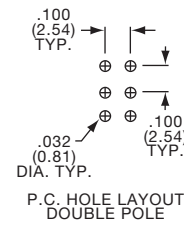
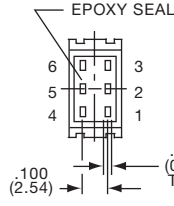
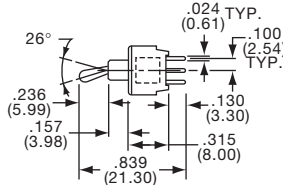
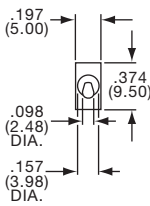
SEE PAGE C19 FOR PRODUCT SPECIFICATIONS



SPDT/DPDT



ATE1DGPC1



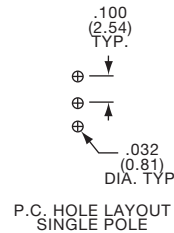
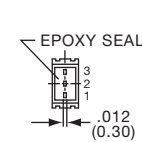
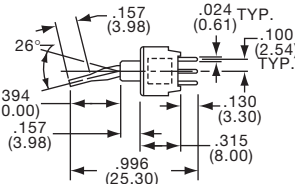
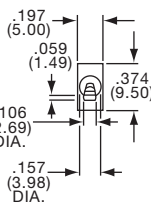
Extra compact double pole saves PCB real estate.



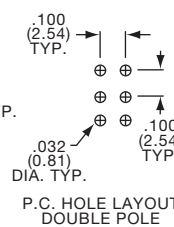
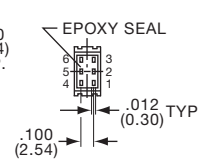
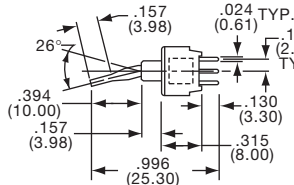
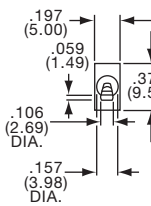
ATE2DGPC1

| Tyco Electronics | Alcoswitch | Type | On | None | On | Contact Type | Tyco Electronics | Alcoswitch | Type | On | None | On | Contact Type |
|------------------------------------|------------|------|------|-----------|------|--------------|----------------------|------------|------|----|------|----|--------------|
| 1437557-2 | ATE1DGPC1 | SPDT | On | None | On | Gold | 1-1437557-5 | ATE2DGPC1 | DPDT | On | None | On | Gold |
| 1437557-6 | ATE1EGPC1 | SPDT | On | Off | On | Gold | 1-1437557-9 | ATE2EGPC1 | DPDT | On | Off | On | Gold |
| 1-1437557-2 | ATE1GGPC1 | SPDT | (On) | None (On) | (On) | Gold | Terminals Connected: | | | | | | |
| Terminals Connected: | | | | | | 2-3 | 5-6 | 2-1 | 5-4 | | | | |
| (On) indicates momentary position. | | | | | | | | | | | | | |

SPDT/DPDT



ATE1DGPC7



Extra compact double pole saves PCB real estate.



ATE2DGPC7

| Tyco Electronics | Alcoswitch | Type | On | None | On | Contact Type | Tyco Electronics | Alcoswitch | Type | On | None | On | Contact Type |
|------------------------------------|------------|------|------|----------|------|--------------|----------------------|------------|------|----|------|----|--------------|
| 1437557-3 | ATE1DGPC7 | SPDT | On | None | On | Gold | 1-1437557-6 | ATE2DGPC7 | DPDT | On | None | On | Gold |
| 1-1437557-3 | ATE1GGPC7 | SPDT | (On) | Off (On) | (On) | Gold | Terminals Connected: | | | | | | |
| Terminals Connected: | | | | | | 2-3 | 5-6 | 2-1 | 5-4 | | | | |
| (On) indicates momentary position. | | | | | | | | | | | | | |

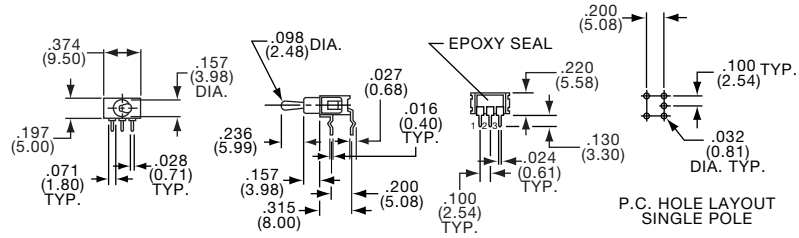
Toggle Switches, Process Sealed, Right Angle, Retention Feature

SEE PAGE C19 FOR PRODUCT SPECIFICATIONS

SPDT/DPDT



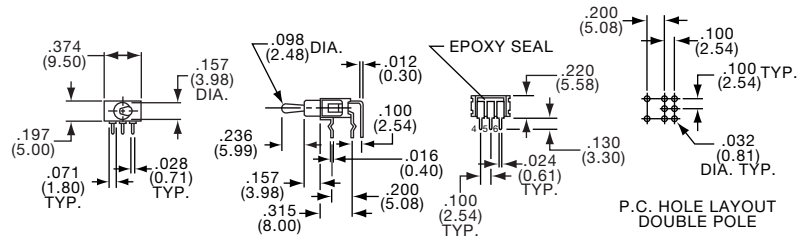
ATE1DGRA1
Horizontal Actuation



Extra compact double pole saves PCB real estate.



ATE2DGRA1
Horizontal Actuation

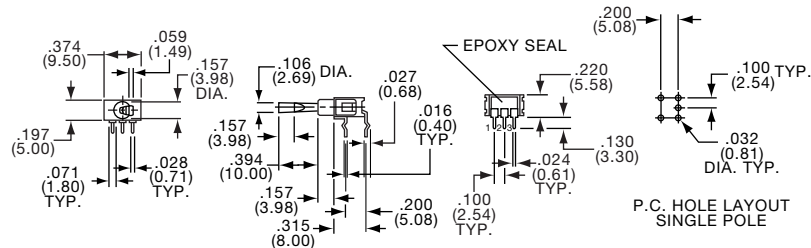


| Tyco Electronics | Alcoswitch | Type | | | | Contact Type | Tyco Electronics | Alcoswitch | Type | | | | Contact Type |
|--|------------|------|------|-----------|----|--------------|--|------------|------|------|------|------|--------------|
| 1437557-4 | ATE1DGRA1 | SPDT | On | None | On | Gold | 1-1437557-7 | ATE2DGRA1 | DPDT | On | None | On | Gold |
| 1437557-8 | ATE1EGRA1 | SPDT | On | Off | On | Gold | 3-1437592-7 | ATE2EGRA1 | DPDT | On | Off | On | Gold |
| 1-1437557-0 | ATE1FGRA1 | SPDT | On | None (On) | | Gold | | ATE2GGRA1 | DPDT | (On) | Off | (On) | Gold |
| 1-1437557-4 | ATE1GGRA1 | SPDT | (On) | Off (On) | | Gold | Terminals Connected: | | | 2-3 | | 2-1 | |
| Terminals Connected: (On) indicates momentary position. | | | | | | | Terminals Connected: (On) indicates momentary position. | | | | | | |

SPDT/DPD



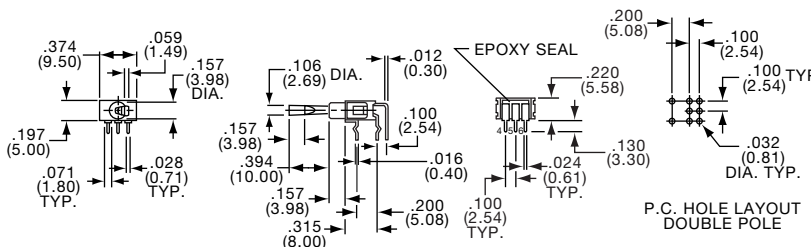
ATE1DGRA7
Horizontal Actuation



Extra compact double pole saves PCB real estate.



ATE2DGRA7
Horizontal Actuation



| Tyco Electronics | Alcoswitch | Type | | | | Contact Type | Tyco Electronics | Alcoswitch | Type | | | | Contact Type |
|--|------------|------|----|-----------|----|--------------|--|------------|------|-----|------|-----|--------------|
| 1437557-5 | ATE1DGRA7 | SPDT | On | None | On | Gold | 1-1437557-8 | ATE2DGRA7 | DPDT | On | None | On | Gold |
| 1437557-9 | ATE1EGRA7 | SPDT | On | Off | On | Gold | Terminals Connected: | | | | | | |
| 1-1437557-1 | ATE1FGRA7 | SPDT | On | None (On) | | Gold | | | | 2-3 | | 2-1 | |
| Terminals Connected: (On) indicates momentary position. | | | | | | | Terminals Connected: (On) indicates momentary position. | | | | | | |

Toggle Switches, A Series, Options

FUNCTIONS

The following functions available in SP or DP.

| | | | | | | |
|--------------------------|-------------|--|--|------------|--------|------------|
| 01 | 2 Positions | None indicates no mechanical position | | On | None | On |
| 03 | 3 Positions | Off indicates a mechanical position with no electrical connection. | | On | Off | On |
| 05 | 3 Positions | (On) indicates momentary action. | | (On) | Off | (On) |
| 07 | 3 Positions | | | (On) | Off | On |
| 08 | 2 Positions | | | (On) | None | On |
| SPDT, connect terminals: | | | | 1—2 | — | 2—3 |
| DPDT, connect terminals: | | | | 1—2 4—5 | — — | 2—3 5—6 |

| | | | | | | |
|-----------|-------------|--|--|------|----|------|
| 11 | 3 Positions | | | On | On | On |
| 13 | 3 Positions | | | (On) | On | On |
| 15 | 3 Positions | | | (On) | On | (On) |

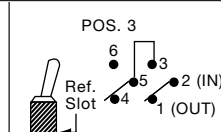
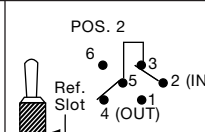
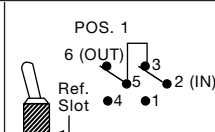
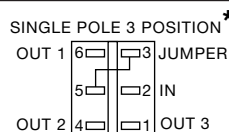
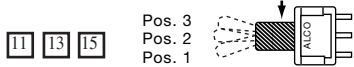
Functions available in DP case only

Connect terminals:

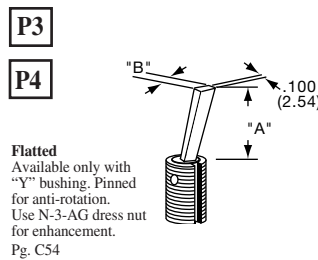
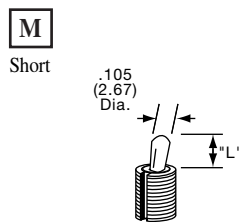
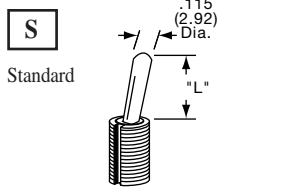
| | | |
|--|--|--|
| | | |
|--|--|--|

* SP3T functions achieved with external jumper installed by customer

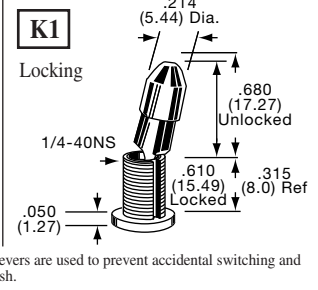
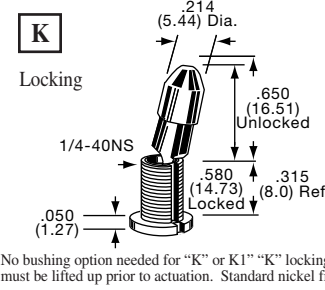
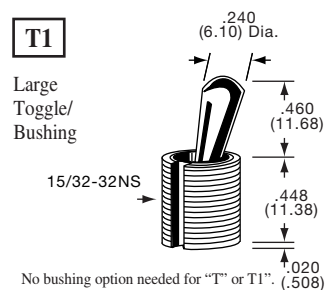
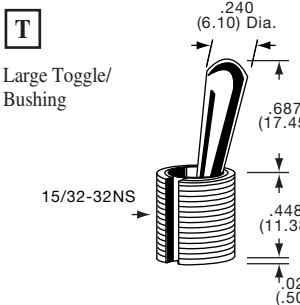
WIRING DIAGRAM FOR FUNCTIONS



TOGGLES



| Dimension "L" | Bushing | Dimension "L" | Bushing Type | Actuator | Dimension "B" | |
|---------------|----------------|---------------|----------------|----------|---------------|-------------|
| .410 (10.41) | "Y", "H", "CW" | .200 (5.08) | "Y", "H", "CW" | P3 | .450 (11.43) | .200 (5.08) |
| .480 (12.19) | "D", "D9" | .270 (6.86) | "D", "D9" | P4 | .250 (6.35) | .165 (4.19) |



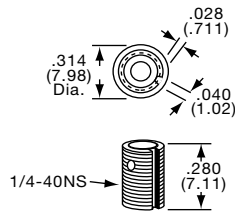
No bushing option needed for "K" or "K1" "K" locking levers are used to prevent accidental switching and must be lifted up prior to actuation. Standard nickel finish.

Toggle Switches, A Series, Options

BUSHINGS

Y

1/4-40 Thread
.35" long, slotted
(Standard)



D9

Unthreaded
.28" long



Used with
Z, C & W
terminations

H

1/4-40 Thread
Flanged, .30" long



D

1/4-40 Thread
.28" long, slotted



Used with
A, AV2, V30
V80 & V90
terminations

CW

Threaded
Splashproof



For S & M Toggles

TERMINALS

Z

Wire Lug



Z3

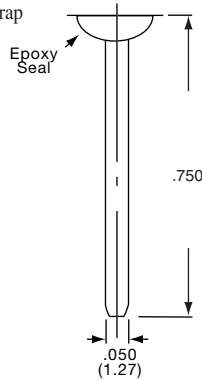
Quick Connect



Mates with Tyco
61454 or 60900.

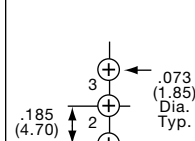
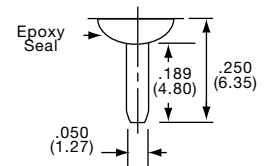
W

Wire Wrap

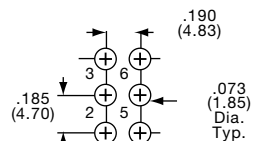


C

Printed Circuit



Single pole



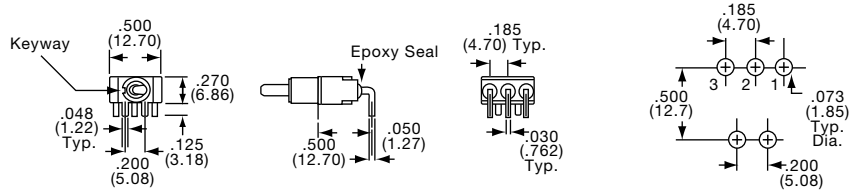
Double pole

Toggle Switches, A Series, Options

TERMINALS

A

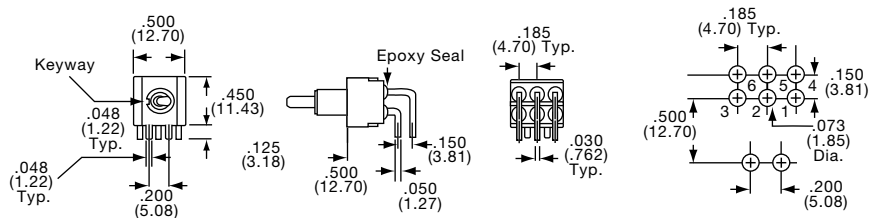
Right Angle
Single Pole



Note: Terminal numbers viewed from top of P.C. boards.

A

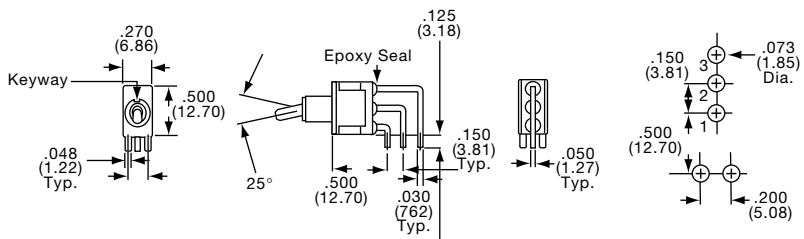
Right Angle
Double Pole



Note: Terminal numbers viewed from top of P.C. boards.

AV2

Vertical Right Angle
Single Pole



Note: Terminal numbers viewed from top of P.C. boards.

AV2

Vertical Right Angle
Double Pole



Note: Terminal numbers viewed from top of P.C. boards.



Toggle Switches, A Series, Options

TERMINALS NOTE: Terminal numbers viewed from top of P.C. board

V30 V40 V90

Vertical Support Bracket
Single Pole



| Option Code | Dim."A" |
|-------------|---------------|
| V30 | .460 (11.68) |
| V40 | .630 (16.00) |
| V90 | 1.150 (29.21) |

Vertical Support Bracket
Double Pole



| Option Code | Dim."A" |
|-------------|---------------|
| V30 | .460 (11.68) |
| V40 | .630 (16.00) |
| V90 | 1.150 (29.21) |

CONTACTS

B CONTACTS: Copper alloy with gold plate, welded button.

TERMINALS: Brass with gold plate.

ELECTRICAL RATING: 0.4 VA @ 20 VAC/DC.

Q CONTACTS: Copper alloy with silver, welded button.

TERMINALS: Brass with tin/lead plate.

ELECTRICAL RATING: 5 A @ 125 VAC, 2 A @ 250 VAC, 2 A @ 30 VDC.

UL/CSA RATING: 5A @ 125 VAC, 3A @ 250 VAC. (Specify "UL" option code)

G CONTACTS: Copper alloy with gold plate over silver, welded button.

TERMINALS: Brass alloy, with gold plate.

Note: This contact option can be used for low-level or power switching. If level is above 0.4 VA @ 20 VAC/DC, the switch is rendered usable only for power switching due to arc-removal of gold plate.

UL/CSA RATING: 5A @ 125 VAC, 3A @ 250 VAC (Specify "UL" option code)

ELECTRICAL RATING: 0.4 VA @ 20 VAC/DC or 5 A @ 125 VAC, 2 A @ 250 VAC, 2 A @ 30 VDC.

Gemini Series

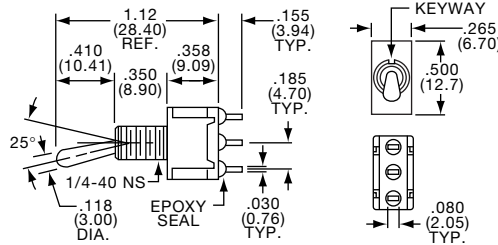
Toggle Switches, A Series, Vertical, Wire Lug, Long Bat Actuator

* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT

| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | | | |
|------------------------|------------|------|-----------|------|------|------|------|
| Silver Contacts | | | | | | | |
| 5-1437554-0 | A101SYZQ | SPDT | 1 | | On | None | On |
| 7-1437554-7 | A103SYZQ | SPDT | 5 | | On | Off | On |
| 9-1437554-6 | A105SYZQ | SPDT | 5 | | (On) | Off | (On) |
| 1437555-9 | A107SYZQ | SPDT | 5 | | On | Off | (On) |
| 2-1437555-0 | A108SYZQ | SPDT | 1 | | On | None | (On) |
| Gold Contacts | | | | | | | |
| 4-1437554-9 | A101SYZB | SPDT | 1 | | On | None | On |
| 7-1437554-6 | A103SYZB | SPDT | 5 | | On | Off | On |
| 9-1437554-5 | A105SYZB | SPDT | 5 | | (On) | Off | (On) |
| | A107SYZB | SPDT | 5 | | On | Off | (On) |

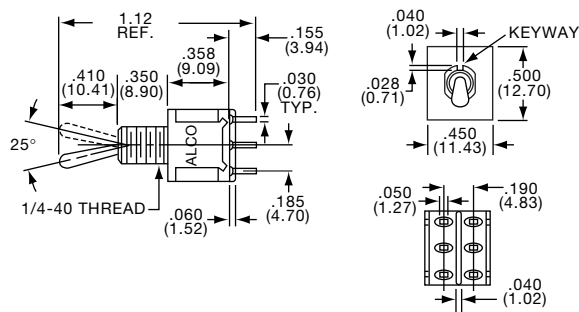


A101SYZQ

G
Gemini Series

DPDT

| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | | | |
|------------------------|------------|------|-----------|------|------|------|------|
| Silver Contacts | | | | | | | |
| 4-1437555-9 | A201SYZQ | DPDT | 2 | | On | None | On |
| 6-1437555-2 | A203SYZQ | DPDT | 6 | | On | Off | On |
| 7-1437555-0 | A205SYZQ | DPDT | 6 | | (On) | Off | (On) |
| 7-1437555-6 | A207SYZQ | DPDT | 6 | | On | Off | (On) |
| 8-1437555-5 | A208SYZQ | DPDT | 2 | | On | None | (On) |
| 1437556-1 | A211SYZQ | SP3T | 11 | | On | On | On |
| 1437556-4 | A213SYZQ | SP3T | 11 | | On | On | (On) |
| 1437556-7 | A215SYZQ | SP3T | 11 | | (On) | On | (On) |



A201SYZQ

Toggle Switches, A Series, PC Terminals, Long Bat Actuators

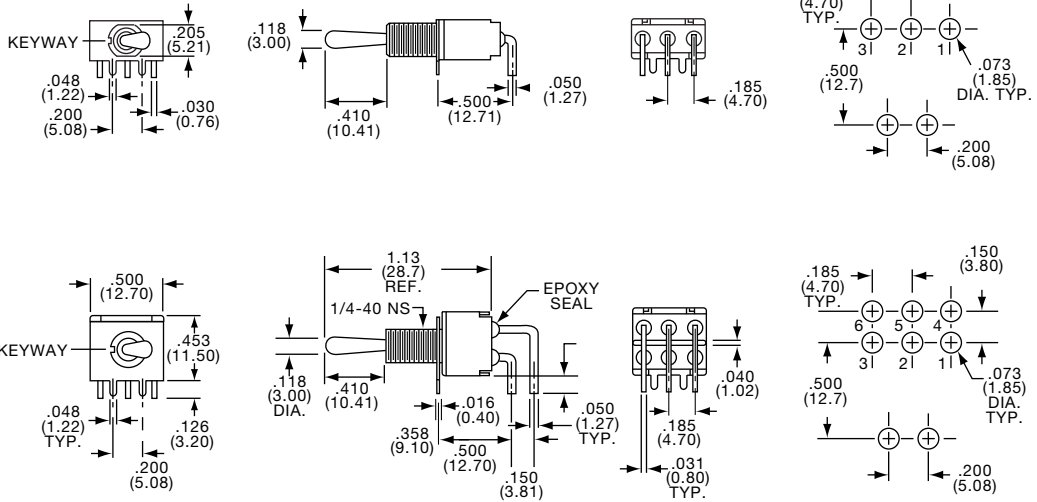
* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT/DPDT



A101SYAB
Horizontal Actuation



| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | ↘ | ↓ | ↙ |
|----------------------|------------|------|-----------|------|----|------|------|
| Gold Contacts | | | | | | | |
| 4-1437554-3 | A101SYAB | SPDT | 1 | | On | None | On |
| | A103SYAB | SPDT | 5 | | On | Off | On |
| 4-1437555-3 | A201SYAB | DPDT | 2 | | On | None | On |
| | A208SYAB | DPDT | 2 | | On | None | (On) |

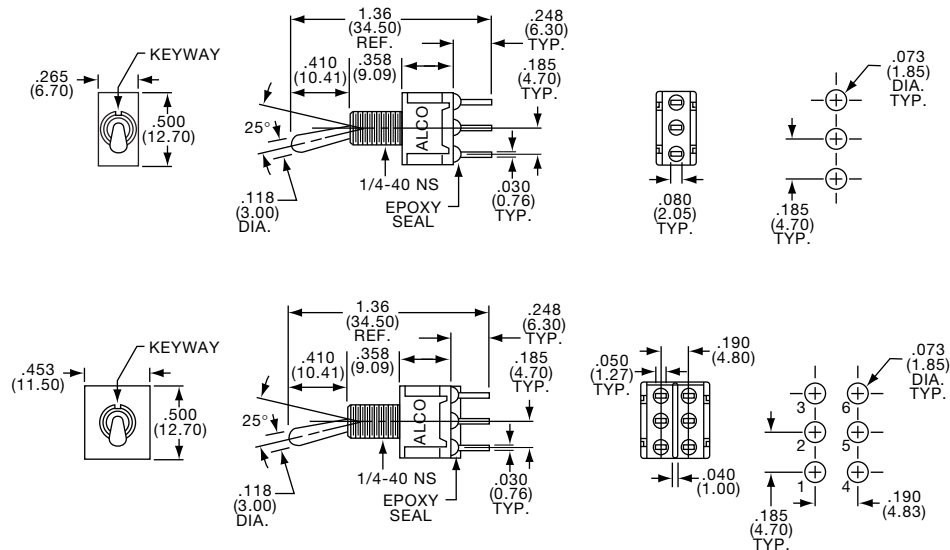
SPDT/DPDT



A101SYCB



A201SYCB

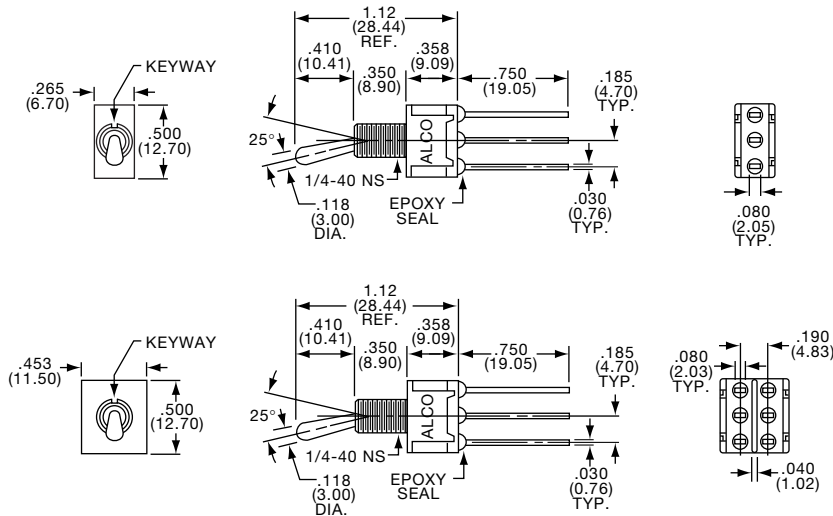


| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | ↘ | ↓ | ↙ |
|----------------------|------------|------|-----------|------|----|------|------|
| Gold Contacts | | | | | | | |
| 4-1437554-5 | A101SYCB | SPDT | 1 | | On | None | On |
| 7-1437554-2 | A103SYCB | SPDT | 5 | | On | Off | On |
| 1-1437555-8 | A108SYCB | SPDT | 1 | | On | None | (On) |
| 4-1437555-5 | A201SYCB | DPDT | 2 | | On | None | On |
| 6-1437555-0 | A203SYCB | DPDT | 6 | | On | Off | On |
| 8-1437555-3 | A208SYCB | DPDT | 2 | | On | None | (On) |

Toggle Switches, A Series, Wire Wrap or Wire Lug, Long Bat Actuators

* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS



SPDT/DPDT

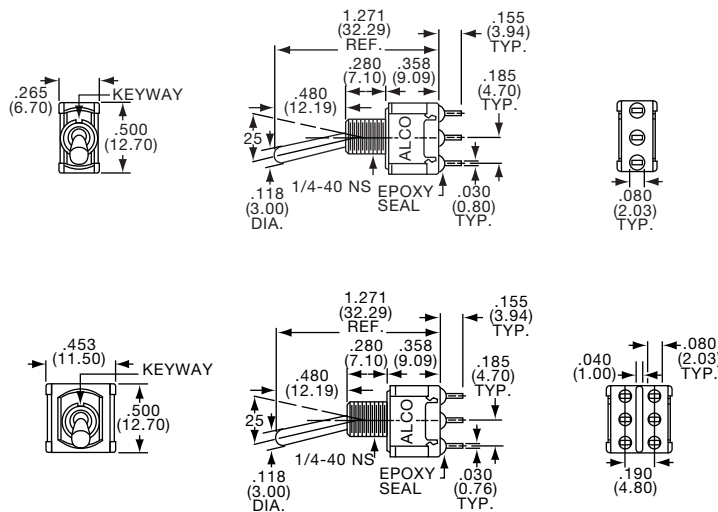


A101SYWQ



A201SYWQ

| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | | | |
|------------------------|------------|------|-----------|------|------|----|--|
| Silver Contacts | | | | | | | |
| 4-1437554-8 | A101SYWQ | SPDT | 1 | On | None | On | |
| 7-1437554-5 | A103SYWQ | SPDT | 5 | On | Off | On | |
| 4-1437555-7 | A201SYWQ | DPDT | 2 | On | None | On | |
| | A203SYWQ | DPDT | 6 | On | Off | On | |



SPDT/DPDT



A101SDZQ



A201SDZQ

| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | | | |
|------------------------|------------|------|-----------|------|------|----|--|
| Silver Contacts | | | | | | | |
| 4-1437554-0 | A101SDZQ | SPDT | 1 | On | None | On | |
| 6-1437554-9 | A103SDZQ | SPDT | 5 | On | Off | On | |
| 4-1437555-1 | A201SDZQ | DPDT | 2 | On | None | On | |
| 5-1437555-9 | A203SDZQ | DPDT | 6 | On | Off | On | |

Toggle Switches, A Series, PC Tail, Straight or Right Angle, Long Bat Actuator

* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT

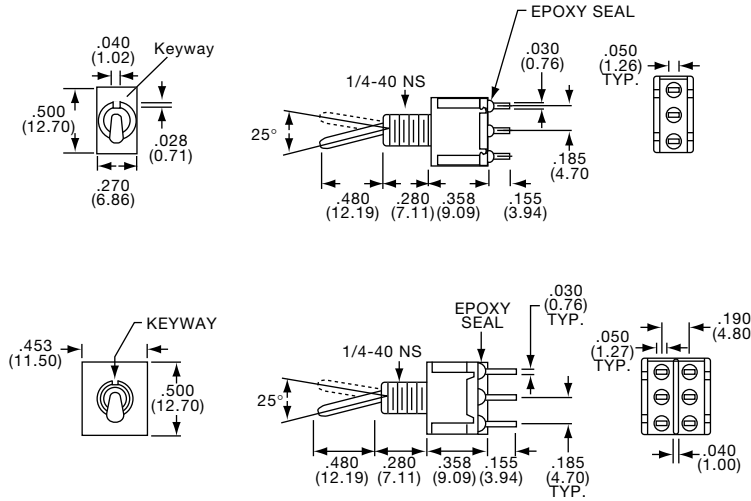


A101SDCQ

DPDT



A201SDCQ



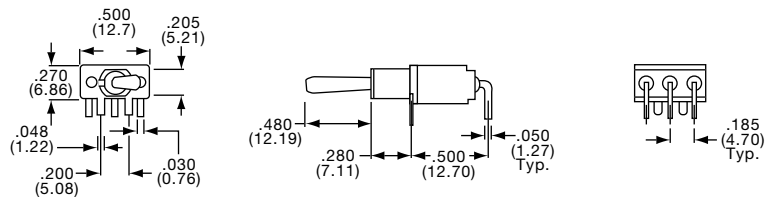
| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | ↖ | ↓ | ↗ |
|------------------------|------------|------|-----------|------|----|------|------|
| Silver Contacts | | | | | | | |
| 3-1437554-9 | A101SDCQ | SPDT | 1 | | On | None | On |
| 6-1437554-8 | A103SDCQ | SPDT | 5 | | On | Off | On |
| 1571670-1 | A201SDCQ | DPDT | 2 | | On | None | On |
| | A203SDCQ | DPDT | 6 | | On | Off | On |
| | A208SDCQ | DPDT | 2 | | On | None | (On) |

SPDT/DPDT



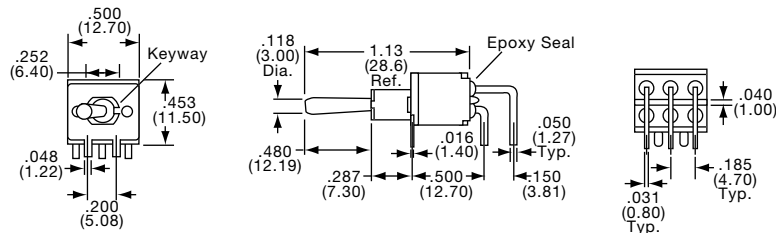
A101SD9AQ

Horizontal Actuation



A201SD9AQ

Horizontal Actuation

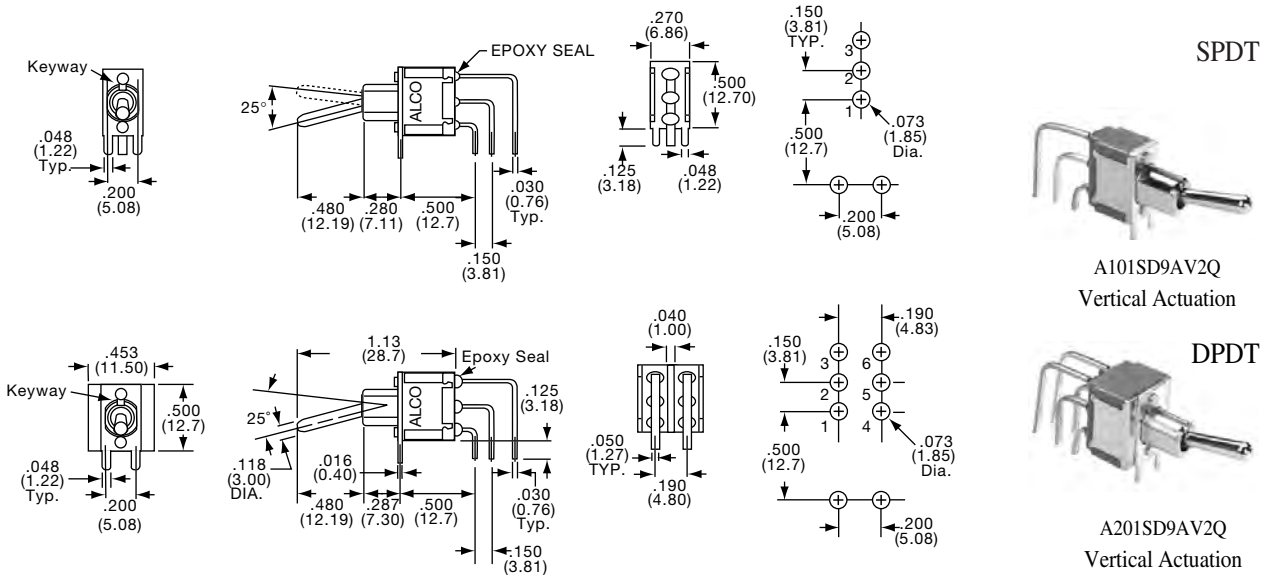


| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | ↖ | ↓ | ↗ | |
|------------------------|------------|----------------------|------------|-------------|-----------|-------|---|----|------|------|
| Silver Contacts | | | | | | | | | | |
| 3-1437554-4 | A101SD9AQ | Gold Contacts | | 3-1437554-3 | A101SD9AB | SPDT | 1 | On | None | On |
| 6-1437554-4 | A103SD9AQ | | A103SD9AB | | A103SD9AB | SPDT | 5 | On | Off | On |
| 1-1437555-6 | A108SD9AQ | | | | | SPDT | 1 | On | None | (On) |
| 3-1437555-8 | A201SD9AQ | | A201SD9AB | | A201SD9AB | DPDT | 2 | On | None | On |
| 8-1437555-1 | A208SD9AQ | | A208SD9AB | | A208SD9AB | DPDT | 2 | On | None | (On) |

Toggle Switches, A Series, Vertical, Right Angle, Long Bat Actuator

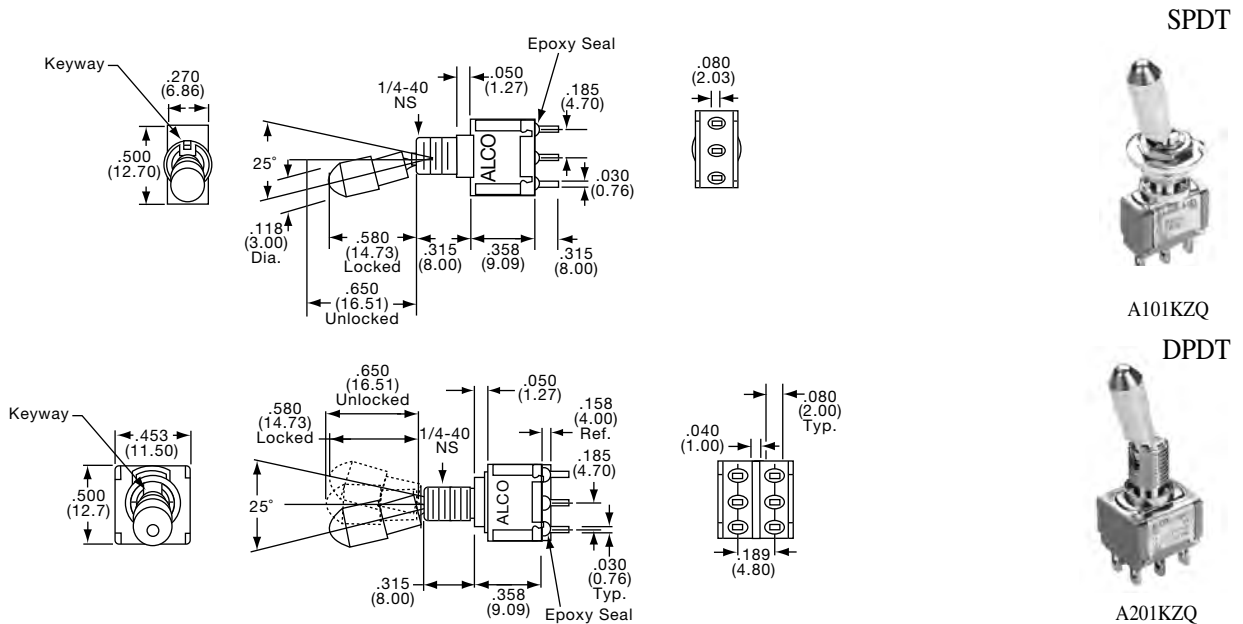
* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS



| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | | | | Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | | | |
|------------------------|-------------|------|-----------|------|----|------|----|------------------|-------------|------|-----------|------|----|------|------|
| Silver Contacts | | | | | | | | | | | | | | | |
| 3-1437554-6 | A101SD9AV2Q | SPDT | 1 | | On | None | On | 3-1437555-9 | A201SD9AV2Q | DPDT | 2 | | On | None | On |
| 6-1437554-6 | A103SD9AV2Q | SPDT | 5 | | On | Off | On | 5-1437555-8 | A203SD9AV2Q | DPDT | 6 | | On | Off | On |
| | | | | | | | | 8-1437555-2 | A208SD9AV2Q | DPDT | 2 | | On | None | (On) |

Toggle Switches, A Series, Wire Lug, Locking Toggle



| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | | | | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | | | | |
|------------------------|------------|------|-----------|------|----|------|----|----------------------|------------|------------------------|------------|-------------|-----------|------|-----|------|------|----|
| Silver Contacts | | | | | | | | | | | | | | | | | | |
| 1437554-9 | A101KZQ | SPDT | 1 | | On | None | On | Gold Contacts | | Silver Contacts | | 2-1437555-5 | A201KZQ | DPDT | 2 | On | None | On |
| 5-1437554-8 | A103KZQ | SPDT | 5 | | On | Off | On | A201KZB | A203KZB | 5-1437555-3 | A203KZQ | DPDT | 6 | On | Off | On | | |
| | | | | | | | | 6-1437555-5 | A205KZB | | A205KZQ | DPDT | 6 | (On) | Off | (On) | | |
| | | | | | | | | 8-1437555-8 | A211KZB | | A211KZQ | SP3T | 11 | On | On | On | | |

* Refer to Pages C22-C26 for Additional Options *

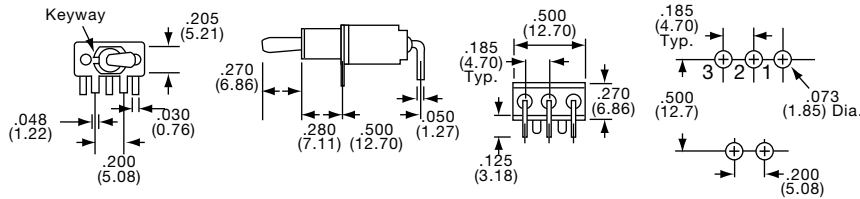
Toggle Switches, A Series, Right Angle, Short Bat Actuators

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT



A101MD9AQ
Horizontal Actuation

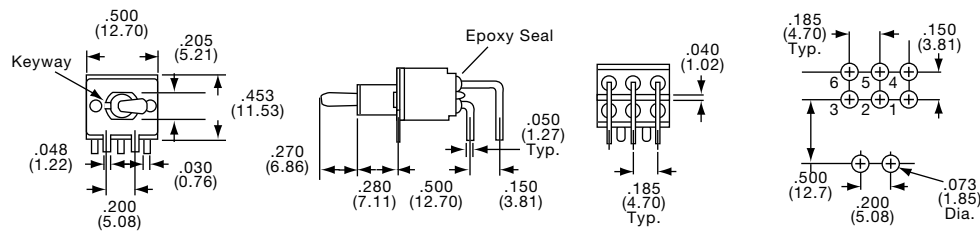


| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|------------------------|------------|----------------------|------------|------|-----------|-------|----|------|------|
| Silver Contacts | | Gold Contacts | | | | | | | |
| 1-1437554-6 | A101MD9AQ | 1-1437554-4 | A101MD9AB | SPDT | 1 | | On | None | On |
| 6-1437554-1 | A103MD9AQ | 5-1437554-9 | A103MD9AB | SPDT | 5 | | On | Off | On |
| | A108MD9AQ | 1-1437555-2 | A108MD9AB | SPDT | 1 | | On | None | (On) |

DPDT



A201MD9AQ
Horizontal Actuation

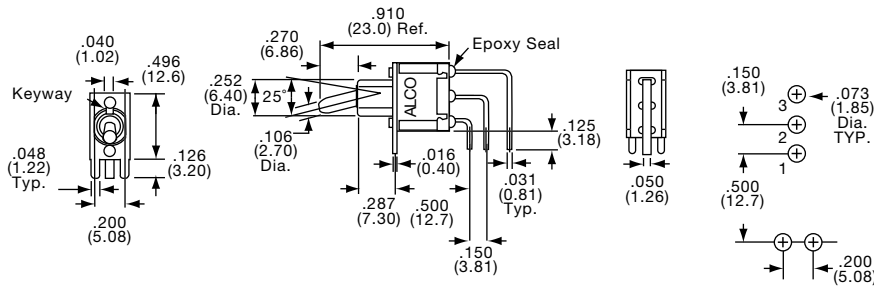


| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|------------------------|------------|----------------------|------------|------|-----------|-------|----|------|----|
| Silver Contacts | | Gold Contacts | | | | | | | |
| 2-1437555-8 | A201MD9AQ | 2-1437555-7 | A201MD9AB | DPDT | 2 | | On | None | On |
| | | 5-1437555-4 | A203MD9AB | DPDT | 6 | | On | Off | On |

SPDT



A101MD9AV2Q
Vertical Actuation

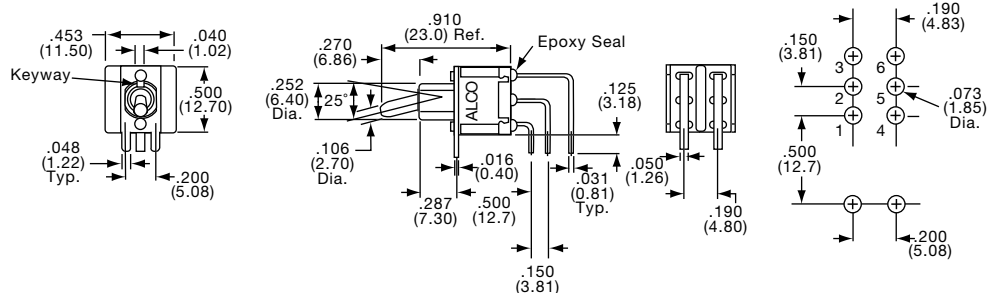


| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|------------------------|-------------|----------------------|-------------|------|-----------|-------|----|------|------|
| Silver Contacts | | Gold Contacts | | | | | | | |
| 1-1437554-9 | A101MD9AV2Q | 1-1437554-7 | A101MD9AV2B | SPDT | 1 | | On | None | On |
| | A103MD9AV2Q | 6-1437554-2 | A103MD9AV2B | SPDT | 5 | | On | Off | On |
| | A108MD9AV2Q | | | SPDT | 1 | | On | None | (On) |

DPDT



A201MD9AV2AQ
Vertical Actuation

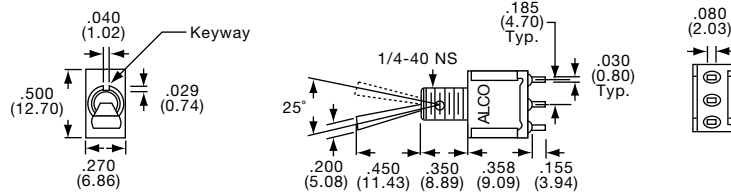


| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|------------------------|-------------|----------------------|-------------|------|-----------|-------|----|------|------|
| Silver Contacts | | Gold Contacts | | | | | | | |
| 3-1437555-0 | A201MD9AV2Q | 2-1437555-9 | A201MD9AV2B | DPDT | 2 | | On | None | On |
| | A203MD9AV2Q | | A203MD9AV2B | DPDT | 6 | | On | Off | On |
| | A208MD9AV2Q | | A208MD9AV2B | DPDT | 2 | | On | None | (On) |

Toggle Switches, A Series, Vertical, Wire Lug, Flat or Long Bat Actuator

* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS



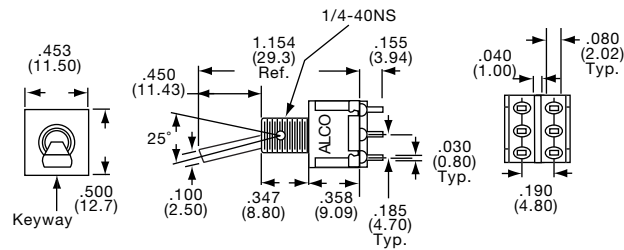
SPDT



A101P3YZQ

| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | ↖ | ⬇ | ↗ |
|------------------------|------------|------|-----------|------|------|------|------|
| Silver Contacts | | | | | | | |
| 2-1437554-9 | A101P3YZQ | SPDT | 1 | | On | None | On |
| 6-1437554-3 | A103P3YZQ | SPDT | 5 | | On | Off | On |
| 8-1437554-7 | A105P3YZQ | SPDT | 5 | | (On) | Off | (On) |
| 1437555-5 | A107P3YZQ | SPDT | 5 | | On | Off | (On) |
| 1-1437555-5 | A108P3YZQ | SPDT | 1 | | On | None | (On) |

| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | ↖ | ⬇ | ↗ |
|------------------------|------------|------|-----------|------|------|------|------|
| Silver Contacts | | | | | | | |
| 3-1437555-6 | A201P3YZQ | DPDT | 2 | | On | None | On |
| 5-1437555-6 | A203P3YZQ | DPDT | 6 | | On | Off | On |
| 6-1437555-6 | A205P3YZQ | DPDT | 6 | | (On) | Off | (On) |
| 7-1437555-3 | A207P3YZQ | DPDT | 6 | | On | Off | (On) |
| 8-1437555-0 | A208P3YZQ | DPDT | 2 | | On | None | (On) |
| 9-1436555-3 | A211P3YZQ | SP3T | 11 | | On | On | On |
| | A215P3YZQ | SP3T | 11 | | (On) | On | (On) |

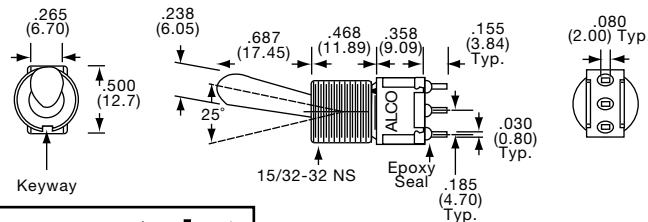


DPDT



A201P3YZQ

| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | ↖ | ⬇ | ↗ |
|------------------------|------------|------|-----------|------|----|------|----|
| Silver Contacts | | | | | | | |
| 5-1437554-6 | A101TZQ | SPDT | 1 | | On | None | On |
| 8-1437554-0 | A103TZQ | SPDT | 5 | | On | Off | On |

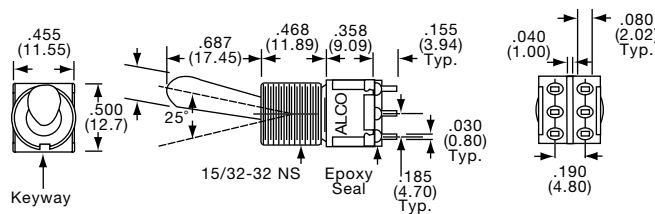


SPDT



A101TZQ

| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | ↖ | ⬇ | ↗ |
|------------------------|------------|------|-----------|------|----|------|----|
| Silver Contacts | | | | | | | |
| 5-1437555-2 | A201TZQ | DPDT | 2 | | On | None | On |
| 6-1437555-4 | A203TZQ | DPDT | 6 | | On | Off | On |
| | A211TZQ | SP3T | 11 | | On | On | On |



DPDT



A201TZQ

Toggle Switches, A Series, Wire Lug, 15/32 Bushing, Short Bat Actuator

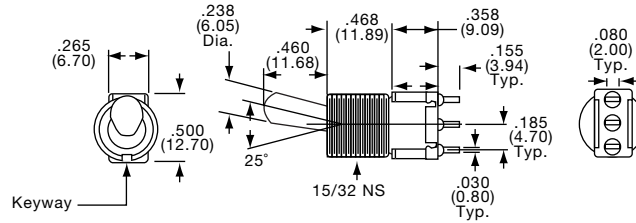
* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT



A103T1ZQ

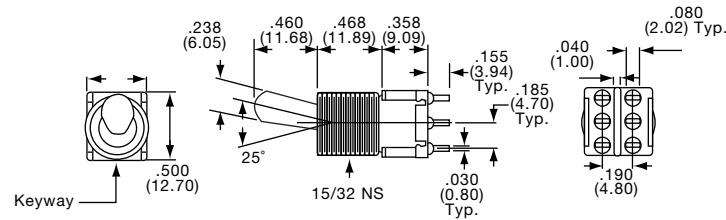


| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | ↘ | ↓ | ↙ |
|------------------------|------------|------|-----------|------|------|------|------|
| Silver Contacts | | | | | | | |
| 5-1437554-4 | A101T1ZQ | SPDT | 1 | | On | None | On |
| 7-1437554-9 | A103T1ZQ | SPDT | 5 | | On | Off | On |
| 9-1437554-8 | A105T1ZQ | SPDT | 5 | | (On) | Off | (On) |
| | A108T1ZQ | SPDT | 1 | | On | None | (On) |

DPDT



A201T1ZQ



| Tyco Electronics | Alcoswitch | Type | Act. Code | P.M5 | ↘ | ↓ | ↙ |
|------------------------|------------|------|-----------|------|------|------|------|
| Silver Contacts | | | | | | | |
| 5-1437555-0 | A201T1ZQ | DPDT | 2 | | On | None | On |
| 6-1437555-3 | A203T1ZQ | DPDT | 6 | | On | Off | On |
| 7-1437555-1 | A205T1ZQ | DPDT | 6 | | (On) | Off | (On) |
| 7-1437555-7 | A207T1ZQ | DPDT | 6 | | On | Off | (On) |
| 8-1437555-6 | A208T1ZQ | DPDT | 2 | | On | None | (On) |
| 1437556-2 | A211T1ZQ | SP3T | 11 | | On | On | On |

Toggle Switches, AE Series, Process Sealed, Part Number Matrix

"AE" SERIES DESIGN FEATURES

- MIL-STD-202 Method 112C Leak Test
- Toggle – Machined brass, heavy nickel plated.
- Bushing & Cover - Nylon, ultrasonically welded to case, with integral "O-ring", UL94VO.
- Fixed Contact – Welded construction.
- Terminal Seal – Epoxy sealing of terminals is standard.
- Termination – Precious metal (gold or silver)/brass or copper strip with welded contact area.

MATERIAL SPECIFICATIONS:

Process Sealing "O-ring" seals will withstand wave soldering and various subsequent cleaning operations. Meets MIL-STD-202, Method 112C, Test Condition A & D, 85°C.

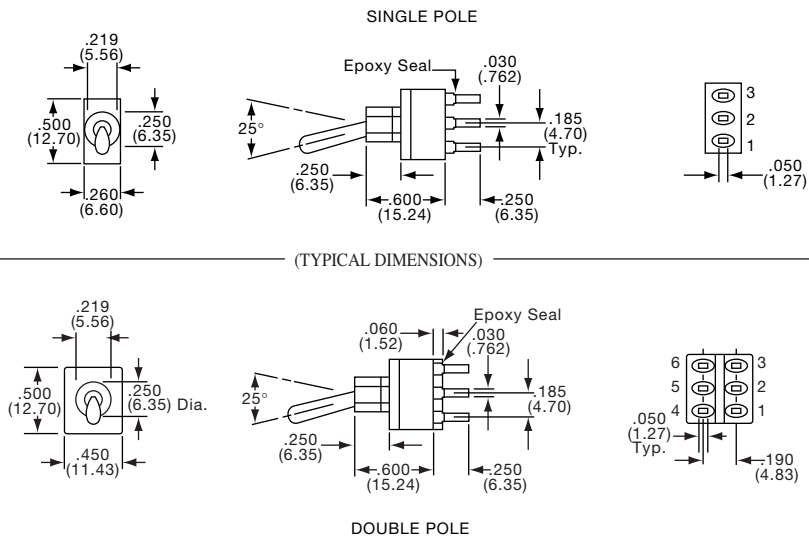
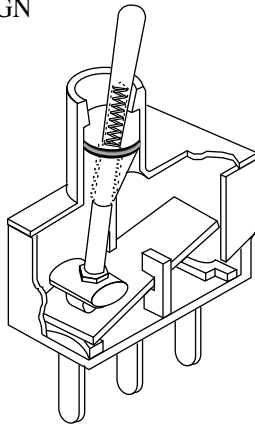
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-4°F to + 185°F (-20°C to + 85°C)
 Storage Temperature.....-49°F to + 212°F (-45°C to + 100°C)
 Solder Heat ResistanceSee page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact RatingSilver: 2 A @ 250 VAC or 5 A @ 125 VAC
 Silver: 2 A @ 30 VDC
 Gold: 0.4 VA @ 20 VAC/DC
 Contact Resistance30 Milliohms max. initial
 Insulation Resistance1,000 Megohms min. @ 500 VDC.
 Dielectric Strength1,000 Volts RMS @ sea level initial
 Static Withstanding.....15 KV per IEC 801-2
 Electrical LifeUp to 30,000 Cycles

"O-RING" DESIGN



PART NUMBERING

| Model | Function | Toggle | Bushing | Terminal | Contact | Option |
|-------------------------|---------------------|--------|----------------------|-------------------------------------|---------------------------|----------------------------|
| AE1 Single Pole | S Bat. Long | | D1 Unthreaded | A Right Angle | B Gold | U.L. (Q or G contact only) |
| AE2 Double Pole | L Lever | | | AV2 Vertical Right Angle | Q Silver | |
| | L1 Lever | | | C Printed Circuit | G Gold over Silver | |
| | L2 Lever | | | V30 Vertical Support Bracket | | |
| 01 On-On | M Bat. Short | | | W Wire Wrap | | |
| 03 On-Off-On | | | | Z3 Quick Connect | | |
| 05 (On)-Off-(On) | | | | Z Wire Lug | | |
| 07 On-Off-(On) | | | | | | |
| 08 On-(On) | | | | | | |
| 11 On-On-On | | | | | | |
| 13 On-On-(On) | | | | | | |
| 15 (On)-On-(On) | | | | | | |

Double Pole case only

Application Note: For surface mount termination, use the "TST" series, Page C5

Other Options

N Black finish toggle, add "N" to end of part number, but before U.L. option.

See page C36 for SP3T wiring diagram.

Pushbutton Switches, Panel Mount, Wire Lug or PC Tails, 6 Amp

MATERIAL SPECIFICATIONS:

ContactsSilver clad copper with gold flash
Case Material.....Thermoset
Actuator MaterialNickel plated copper alloy
Terminals.....Copper with gold flash
Terminal SealMolded in

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4°F to +176°F (-20°C to +80°C)
Storage Temperature-40°F to +176°F (-40°C to +80°C)
Solder Heat ResistanceSee page M3-4

Note: Hardware included with switches

TYPICAL PERFORMANCE CHARACTERISTICS:

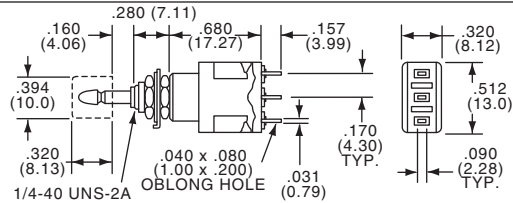
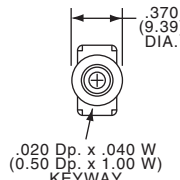
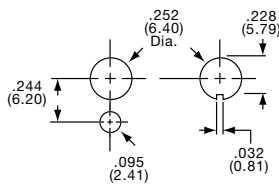
Contact Rating.....6 A @ 125 VAC, 3 A @ 250 VAC
Initial Contact Resistance10 Milliohms max.
Contact TimingBreak-before-make
Insulation Resistance.....1,000 Megohms min.
Dielectric Strength.....1,500 Volts RMS @ sea level
Actuation Force1.3 to 2.7 lbs.
Actuator Travel140" (3.56)

Life Expectancy.....Up to 50,000 Actuations
Cap not supplied, order separately
(See Cap Model C22 and C23 on page D32.)

SPDT



MPA106D

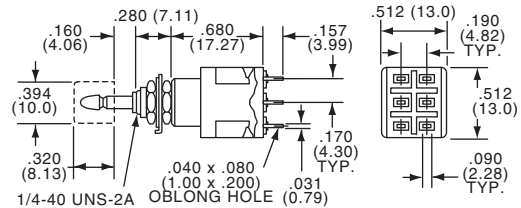
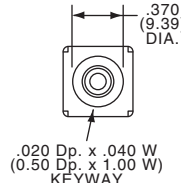
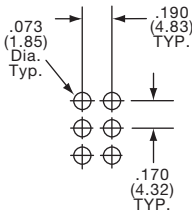


| Part Number | | | | | |
|------------------|------------|------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M6 | Action |
| 2-1437567-8 | MPA106D | SPDT | 23 | | Push-on/Push-off |
| 2-1437567-9 | MPA106F | SPDT | 19 | | Momentary |

DPDT



MPA206N



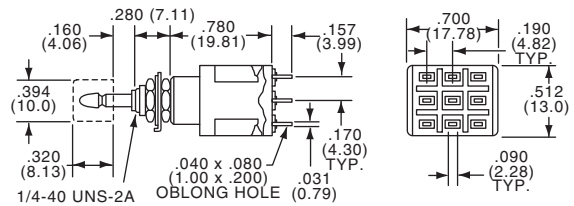
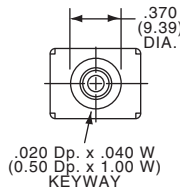
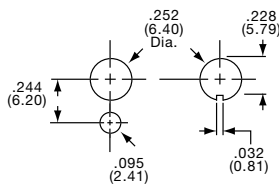
| Part Number | | | | | |
|-------------------|------------|------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M6 | Action |
| Wirelug Terminals | | | | | |
| 3-1437567-1 | MPA206N | DPDT | 24 | | Push-on/Push-off |
| 3-1437567-3 | MPA206R | DPDT | 20 | | Momentary |

| Part Number | | | | | |
|------------------|------------|------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M6 | Action |
| PC Terminals | | | | | |
| 3-1437567-2 | MPA206NPC | DPDT | 24 | | Push-on/Push-off |
| 3-1437567-4 | MPA206RPC | DPDT | 20 | | Momentary |

3PDT



MPA306D

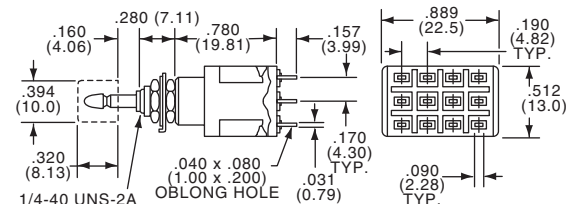
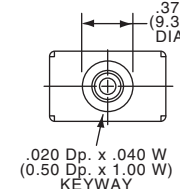
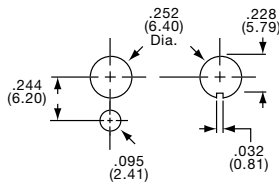


| Part Number | | | | | |
|------------------|------------|------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M6 | Action |
| 3-1437567-5 | MPA306D | 3PDT | 25 | | Push-on/Push-off |
| 3-1437567-6 | MPA306F | 3PDT | 21 | | Momentary |

4PDT



MPA406N



| Part Number | | | | | |
|------------------|------------|------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M6 | Action |
| 3-1437567-7 | MPA406N | 4PDT | 26 | | Push-on/Push-off |
| 3-1437567-8 | MPA406R | 4PDT | 22 | | Momentary |

Pushbutton Switches, Splashproof, Panel Mount, Wire Lug, 6 Amp

MATERIAL SPECIFICATIONS:

ContactsSilver clad copper with gold flash
Case MaterialThermoset
Actuator MaterialNickel plated copper alloy
TerminalsCopper with gold flash
Terminal SealMolded in

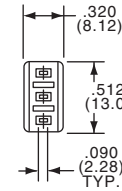
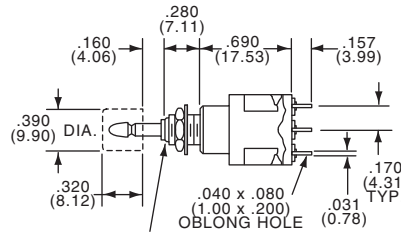
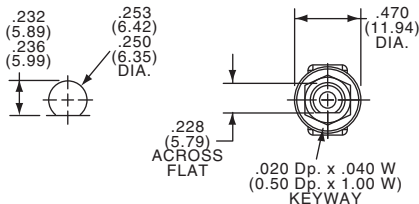
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4°F to +176°F (-20°C to +80°C)
Storage Temperature-40°F to +176°F (-40°C to +80°C)
Note: Hardware included with switches

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating6 A @ 125 VAC, 3 A @ 250 VAC
Initial Contact Resistance10 Milliohms max.
Contact TimingBreak-before-make
Insulation Resistance1,000 Megohms min.
Dielectric Strength1,500 Volts RMS @ sea level
Actuation Force1.3 to 2.7 lbs.
Actuator Travel140" (3.56)
Life ExpectancyUp to 50,000 Actuations

Notice: O-ring on shoulder and inside moveable shaft provides splashproof seal. Meets IP65



SPDT

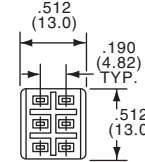
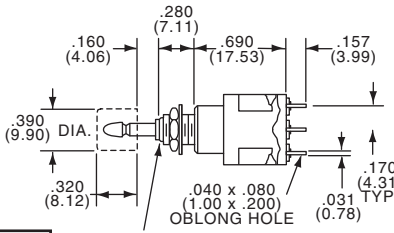
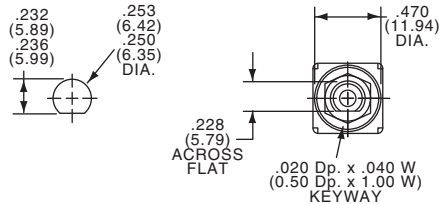


MPE106D

| Part Number | | Act. Code | | |
|------------------|------------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type | P. M6 | Action |
| 4-1437567-2 | MPE106D | SPDT | 23 | Push on/Push off |
| 4-1437567-3 | MPE106F | SPDT | 19 | Momentary |

1/4-40 UNS-2A

Cap not supplied, order separately (See Cap Model C22 and C23 on page D32.)



DPDT

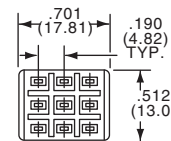
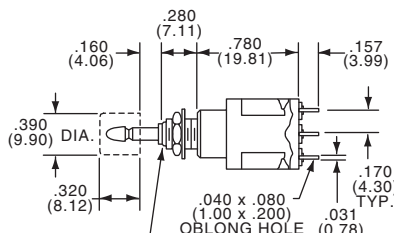
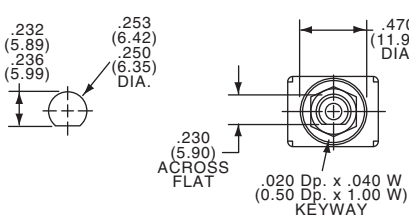


MPE206N

| Part Number | | Act. Code | | |
|------------------|------------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type | P. M6 | Action |
| 4-1437567-4 | MPE206N | DPDT | 24 | Push on/Push off |
| 4-1437567-5 | MPE206R | DPDT | 20 | Momentary |

1/4-40 UNS-2A

Cap not supplied, order separately (See Cap Model C22 and C23 on page D32.)



3PDT

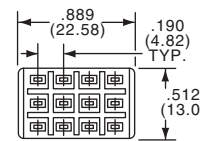
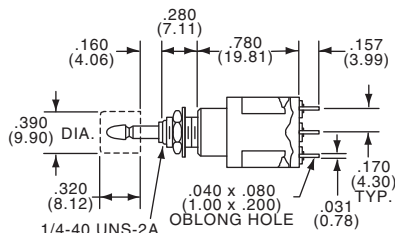
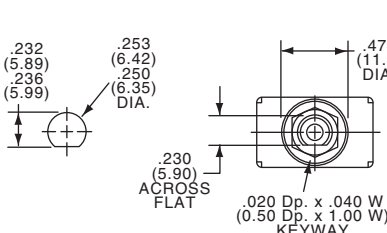


MPE306F

| Part Number | | Act. Code | | |
|------------------|------------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type | P. M6 | Action |
| — | MPE306D | 3PDT | 25 | Push on/Push off |
| 4-1437567-6 | MPE306F | 3PDT | 21 | Momentary |

1/4-40 UNS-2A

Cap not supplied, order separately (See Cap Model C22 and C23 on page D32.)



4PDT



MPE406N

| Part Number | | Act. Code | | |
|------------------|------------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type | P. M6 | Action |
| 4-1437567-7 | MPE406N | 4PDT | 26 | Push on/Push off |
| 4-1437567-8 | MPE406R | 4PDT | 22 | Momentary |

Cap not supplied, order separately (See Cap Model C22 and C23 on page D32.)

Pushbutton Switches, 15/32 Bushing, Mustang, Wire Lug or PC Tails, 6 Amp

MATERIAL SPECIFICATIONS:

ContactsSilver clad copper with gold flash
 Case MaterialThermoset
 TerminalsCopper with gold flash finish
 Terminal SealMolded in

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating6 A @ 125 VAC, 3 A @ 250 VAC
 Initial Contact Resistance10 Milliohms max.
 Contact TimingBreak-before-make
 Insulation Resistance1,000 Megohms min.
 Dielectric Strength1,500 Volts RMS @ sea level
 Actuation Force1.3 to 2.7 lbs.
 Actuator Travel138" (3.51)
 Life ExpectancyUp to 50,000 Actuations
 Note: Hardware included with switches

ENVIRONMENTAL SPECIFICATIONS:

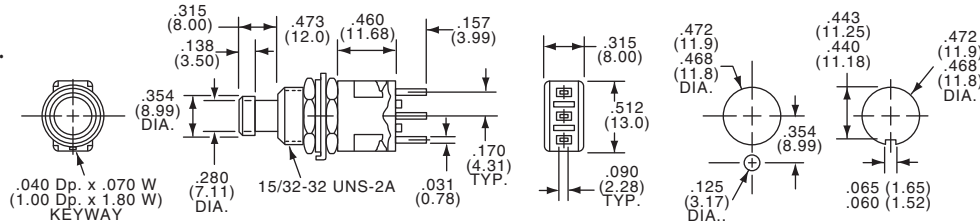
Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
 Storage Temperature.....-40F to +176°F (-40°C to +80°C)
 Solder Heat ResistanceSee page M3-4

SPDT

Black Cap supplied.



MPG106D



Other Caps Available, order separately
 (See Cap Model C9 on page D32.)

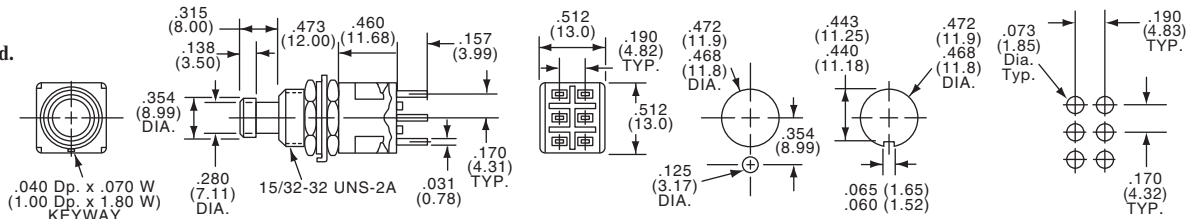
| Part Number | | Type | Act. Code | P. M6 | Action | Terminals |
|------------------|------------|------|-----------|-------|------------------|-----------|
| Tyco Electronics | Alcoswitch | | | | | |
| 4-1437567-9 | MPG106D | SPDT | 23 | | Push on/Push off | Wire Lug |
| 5-1437567-0 | MPG106F | SPDT | 19 | | Momentary | Wire Lug |

DPDT

Black Cap supplied.



MPG206NPC



Other Caps Available, order separately
 (See Cap Model C9 on page D32.)

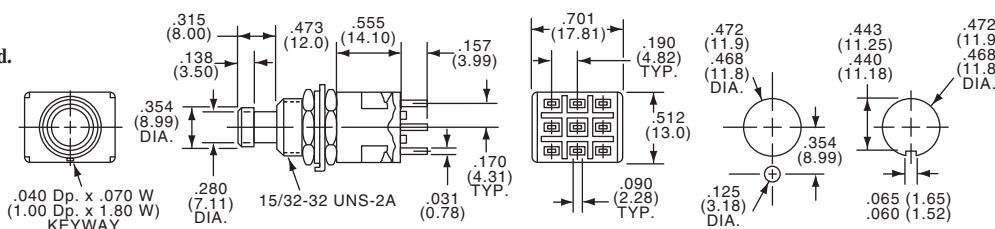
| Part Number | | Type | Act. Code | P. M6 | Action | Terminals |
|------------------|------------|------|-----------|-------|------------------|-----------|
| Tyco Electronics | Alcoswitch | | | | | |
| 5-1437567-1 | MPG206N | DPDT | 24 | | Push on/Push off | Wire Lug |
| 5-1437567-3 | MPG206R | DPDT | 20 | | Momentary | Wire Lug |
| 5-1437567-2 | MPG206NPC | DPDT | 24 | | Push on/Push off | PC |
| 5-1437567-4 | MPG206RPC | DPDT | 20 | | Momentary | PC |

3PDT

Black Cap supplied.



MPG306D



Other Caps Available, order separately
 (See Cap Model C9 on page D32.)

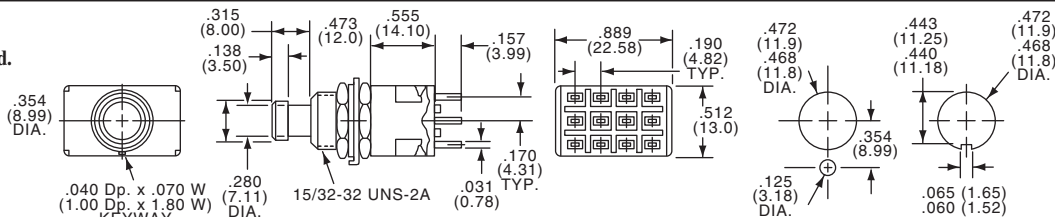
| Part Number | | Type | Act. Code | P. M6 | Action | Terminals |
|------------------|------------|------|-----------|-------|------------------|-----------|
| Tyco Electronics | Alcoswitch | | | | | |
| 5-1437567-5 | MPG306D | 3PDT | 25 | | Push on/Push off | Wire Lug |
| 5-1437567-6 | MPG306F | 3PDT | 21 | | Momentary | Wire Lug |

4PDT

Black Cap supplied.



MPG406N



Other Caps Available, order separately
 (See Cap Model C9 on page D32.)

| Part Number | | Type | Act. Code | P. M6 | Action | Terminals |
|------------------|------------|------|-----------|-------|------------------|-----------|
| Tyco Electronics | Alcoswitch | | | | | |
| 5-1437567-7 | MPG406N | 4PDT | 25 | | Push on/Push off | Wire Lug |
| 5-1437567-8 | MPG406R | 4PDT | 21 | | Momentary | Wire Lug |

Pushbutton Switches, Snap Action, PC or Wire Wrap Tails, 3 Amp

SPDT/DPDT

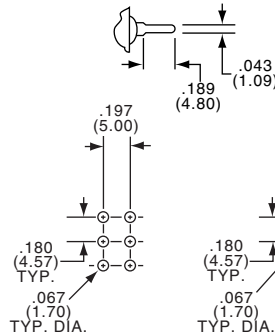
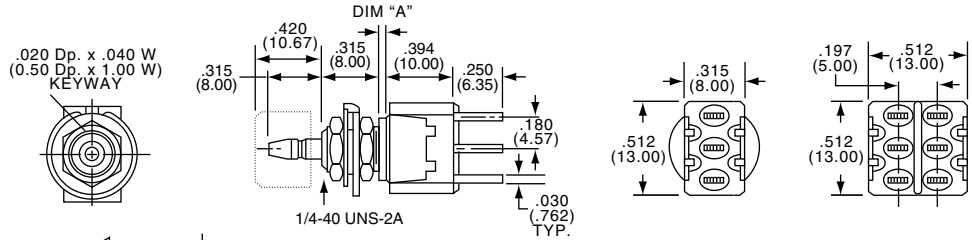
SEE PAGE D25 FOR PRODUCT SPECIFICATIONS



MPS103FPC



MPS203RPC



| Part Number | | | | | |
|------------------|------------|------|-------------|---------|--------------|
| Tyco Electronics | Alcoswitch | Type | Action | Dim."A" | Terminals |
| 6-1437567-0 | MPS103DPC | SPDT | Push-on/Off | .100 | PC Terminals |
| 6-1437567-4 | MPS103FPC | SPDT | Momentary | .040 | PC Terminals |
| 6-1437567-9 | MPS203NPC | DPDT | Push-on/Off | .100 | PC Terminals |
| 7-1437567-3 | MPS203RPC | DPDT | Momentary | .040 | PC Terminals |

Caps not supplied, order separately. (See Cap Model C22 and C23 on Page D32.)

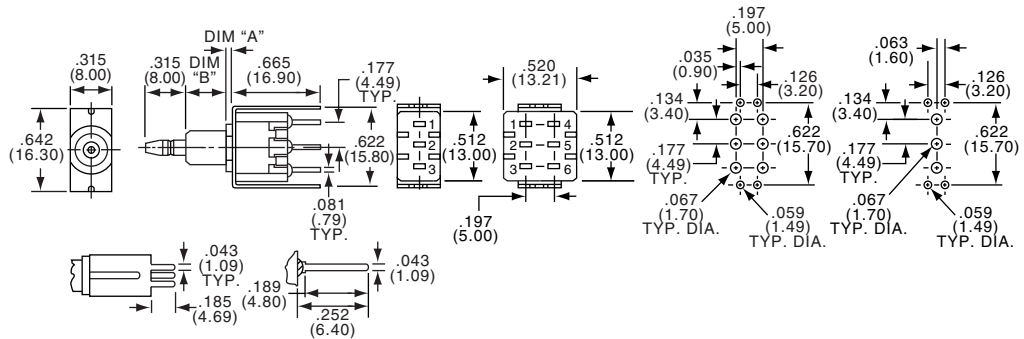
SPDT/DPDT



MPS103FPCV



MPS203RPCV



| Part Number | | | | | | |
|------------------|------------|------|-------------|------------|------------|--------------|
| Tyco Electronics | Alcoswitch | Type | Action | Dim."A" | Dim."B" | Terminals |
| 6-1437567-1 | MPS103DPCV | SPDT | Push-on/Off | .080(2.03) | .315(8.00) | PC w/support |
| 6-1437567-5 | MPS103FPCV | SPDT | Momentary | .040(1.01) | .295(7.49) | PC w/support |
| 7-1437567-4 | MPS203RPCV | DPDT | Momentary | .040(1.01) | .295(7.49) | PC w/support |

Caps not supplied, order separately. (See Cap Model C22 and C23 on Page D32.)

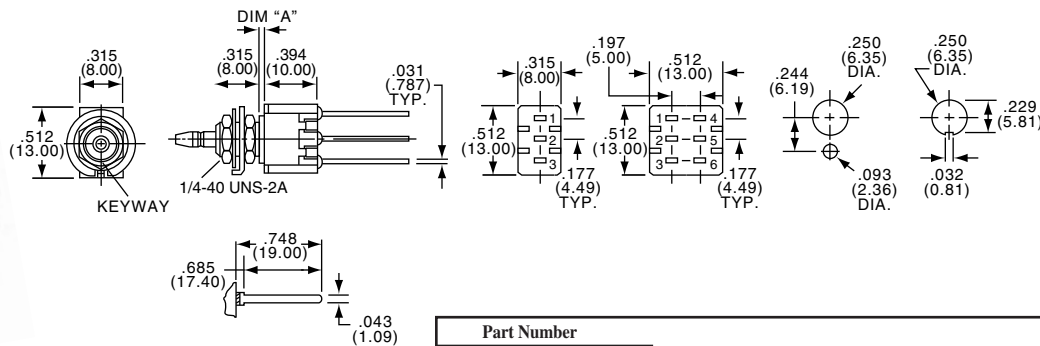
SPDT/DPDT



MPS103FWW



MPS203RWW



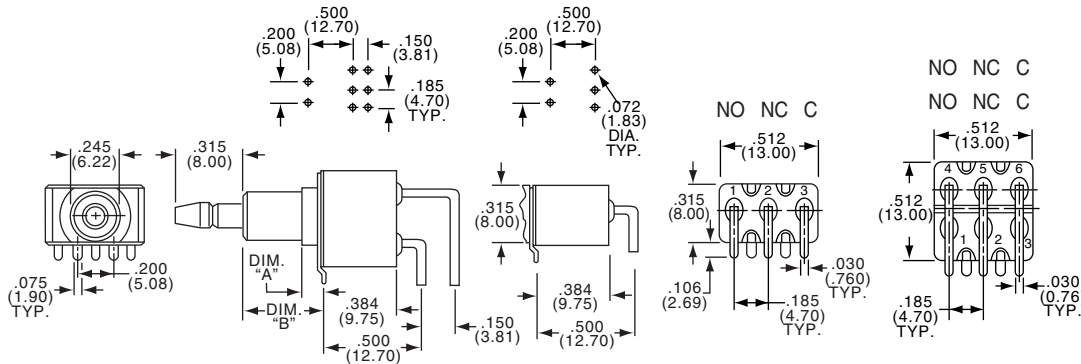
| Part Number | | | | | |
|------------------|------------|------|-------------|------------|-------------|
| Tyco Electronics | Alcoswitch | Type | Action | Dim."A" | Terminals |
| 6-1437567-7 | MPS103FWW | SPDT | Momentary | .040(1.01) | Extended PC |
| - | MPS203NWW | DPDT | Push-on/Off | .100(2.54) | Extended PC |
| 7-1437567-6 | MPS203RWW | DPDT | Momentary | .040(1.01) | Extended PC |

Caps not supplied, order separately. (See Cap Model C22 and C23 on Page D32.)

D
MPS Series

Pushbutton Switches, Snap Action, Right Angle, 3 Amp

SEE PAGE D25 FOR PRODUCT SPECIFICATIONS



SPDT/DPDT



MPS103DRA



MPS203NRA

| Part Number | | | | | | |
|------------------|------------|------|-------------|------------|------------|----------------|
| Tyco Electronics | Alcoswitch | Type | Action | Dim."A" | Dim."B" | Terminals |
| 6-1437567-2 | MPS103DRA | SPDT | Push-on/Off | .100(2.54) | .423(10.7) | Right Angle PC |
| 6-1437567-6 | MPS103FRA | SPDT | Momentary | .060(1.52) | .364(9.24) | Right Angle PC |
| 7-1437567-1 | MPS203NRA | DPDT | Push-on/Off | .100(2.54) | .423(10.7) | Right Angle PC |
| 7-1437567-5 | MPS203RRA | DPDT | Momentary | .060(1.52) | .364(9.24) | Right Angle PC |

Caps not supplied, order separately.
(See Cap Model C22 and C23 on Page D32.)

MSP3/MSPS

Pushbutton Switches, 2.5mm Travel, Panel Mount

MATERIAL SPECIFICATIONS:

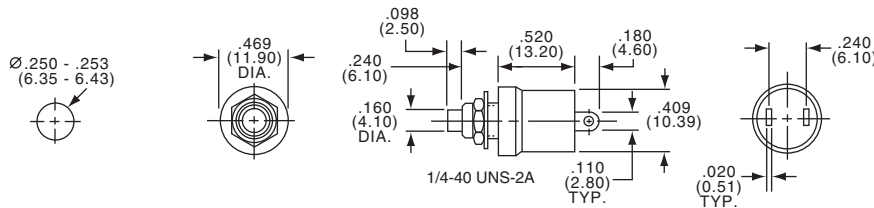
ContactsSilver plate over copper alloy
Case MaterialThermoplastic
Actuator MaterialThermoplastic
TerminalsSilver plate

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact RatingMSP103 - 3 Amps @ 125 VAC
(with over travel) .059" (1.5mm)
MSPS103 - 0.5 Amps @ 125 VAC
(Butt contact)
Initial Contact Resistance100 Milliohms
Contact TimingBreak-before-make
Insulation Resistance1,000 Megohms min.
Dielectric Strength1,000 Volts RMS @ sea level
Life ExpectancyUp to 10,000 Cycles
Travel2.5 mm

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....+5°F to +153°F (-15°C to +75°C)
Solder Heat ResistanceSee page M3-4
Note: Hardware included with switches



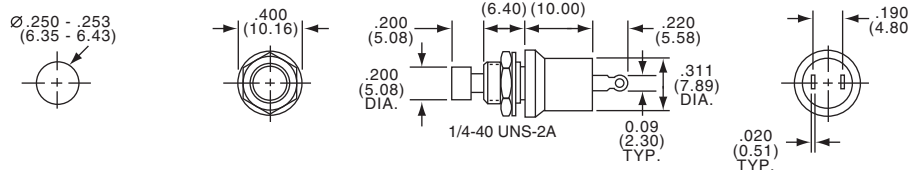
SPST



MSP103B

3 AMPS

| Part Number | | | | | | |
|------------------|------------|------|-----------------|------------------|----------------|----------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | Momentary Action | Bushing Length | Actuator Color |
| 8-1437567-3 | MSP103B | SPST | 14 | Normally Closed | .236 | Black |
| 8-1437567-4 | MSP103C | SPST | 13 | Normally Open | .236 | Red |
| 8-1437567-5 | MSP103C0 | SPST | 13 | Normally Open | .236 | Black |
| 8-1437567-6 | MSP103C2 | SPST | 13 | Normally Open | .374 | Red |



MSPS103B

0.5 AMPS

| Part Number | | | | | | |
|------------------|------------|------|-----------------|------------------|----------------|----------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | Momentary Action | Bushing Length | Actuator Color |
| 1437568-5 | MSPS103B | SPST | 14 | Normally Closed | .245 | Black |
| 1437568-6 | MSPS103C2 | SPST | 13 | Normally Open | .245 | Red |
| 1437568-7 | MSPS103C0 | SPST | 13 | Normally Open | .245 | Black |

Pushbutton Switches, Front or Rear Entry Mount, 15/32 Bushing

MATERIAL SPECIFICATIONS:

ContactsSilver plate
 Case MaterialThermoset
 Actuator MaterialThermoplastic
 TerminalsSilver plate
 Terminal SealEpoxy

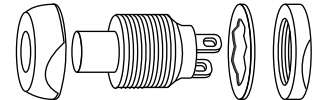
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.5 A @ 125 VAC
 Initial Contact Resistance100 Milliohms
 Contact TimingBreak-before-make
 Insulation Resistance1,000 Megohms min.
 Dielectric Strength1,000 Volts RMS @ sea level
 Actuator Travel......098" (2.49)
 Life ExpectancyUp to 10,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
 Storage Temperature.....-4F to +176°F (-20°C to +80°C)

Application Note: Illustration shows versatile front or rear entry usage, with hardware supplied.



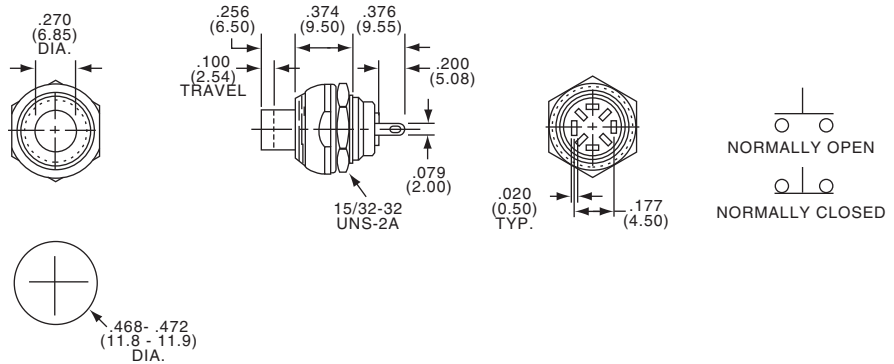
D

MSPF Series

SPST



MSPF101B

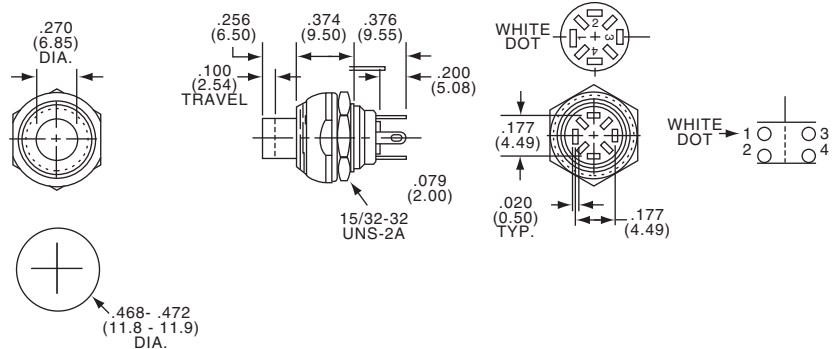


| Part Number | | | | |
|------------------|------------|------|-----------------|----------------|
| Tyco Electronics | Alcoswitch | Type | Action | Actuator Color |
| 8-1437567-8 | MSPF101B | SPST | Normally Closed | Black |
| 9-1437567-3 | MSPF101C | SPST | Normally Open | Red |

2 CIRCUIT



MSPF101BC



| Part Number | | | | |
|------------------|------------|-----------|-------------------------------|----------------|
| Tyco Electronics | Alcoswitch | Type | Action | Actuator Color |
| 8-1437567-9 | MSPF101BC0 | 2 Circuit | Normally open-normally closed | Black |
| 9-1437567-0 | MSPF101BC2 | 2 Circuit | Normally open-normally closed | Red |
| 9-1437567-1 | MSPF101BC6 | 2 Circuit | Normally open-normally closed | Blue |
| 9-1437567-2 | MSPF101BC9 | 2 Circuit | Normally open-normally closed | White |

Pushbutton Switches, Magnetic Reed, Long Life, Hermetically Sealed

MATERIAL SPECIFICATIONS:

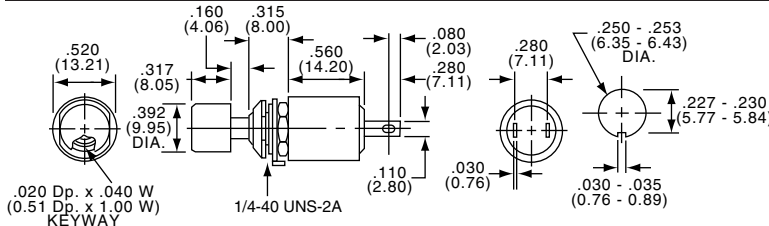
ContactsGold
 Case MaterialSteel
 Actuator MaterialPolyamide
 Terminals/Fixed Contacts.....Wire Lug
 Pin useable for PC applications

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating1.0 VA optimum (100 mA max., 100 VDC max.)
 Initial Contact Resistance100 Milliohms max.
 Actuation ForceTactile "keyboard feel" 4 to 7 oz.
 "breakaway" reducing immediately to 1.5 oz.
 "follow-through"
 Actuator Travel078" nominal
 Life Expectancy.....Up to 5,000,000 Cycles @ .1 VA; 50,000 cycles @ 5VA
 Solder Heat ResistanceSee page M3-4
 Note: Hardware included with switches

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +176°F (-10°C to +80°C)
 Storage Temperature.....+14°F to +176°F (-10°C to +80°C)

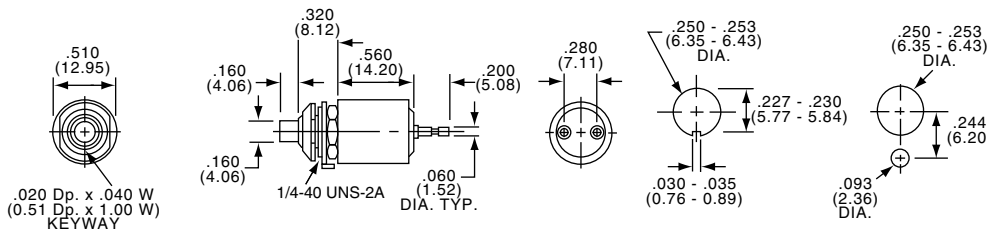


N.C. OR N.O.
SOFT DETENT



| Part Number | | | | | | |
|------------------|------------|------|-----------|-------|-----------------|-----------|
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M6 | Action | Terminals |
| 9-1437567-4 | MSPM101B0 | SPST | 14 | | Normally Closed | Pin |
| 1437568-1 | MSPM101C2 | SPST | 13 | | Normally Open | Pin |
| 9-1437567-5 | MSPM101B1 | SPST | 14 | | Normally Closed | Lug |
| 9-1437567-9 | MSPM101C1 | SPST | 13 | | Normally Open | Lug |

Cap Model C22 supplied with unit.



N.C. OR N.O.
AUDIBLE DETENT



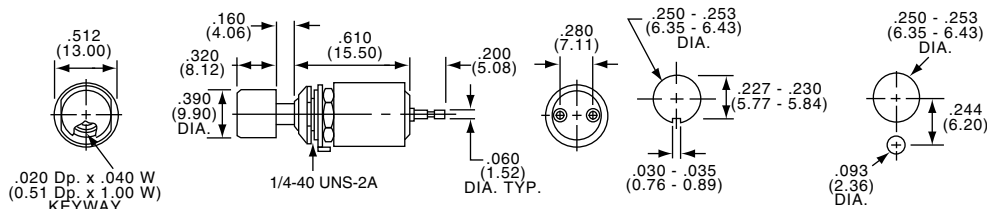
| Part Number | | | | | | |
|------------------|------------|------|-----------|-------|-----------------|-----------|
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M6 | Action | Terminals |
| 9-1437567-7 | MSPM101BS | SPST | 14 | | Normally Closed | Pin |
| 1437568-3 | MSPM101CS | SPST | 13 | | Normally Open | Pin |
| 9-1437567-8 | MSPM101BS1 | SPST | 14 | | Normally Closed | Lug |
| 1437568-4 | MSPM101CS1 | SPST | 13 | | Normally Open | Lug |

Pushbutton Switches, Push-Pull, Magnetic Reed, Long Life, Hermetically Sealed

SPECIFICATIONS (Same as above except):

Travel125" (3.18) nominal

Actuation ForceTactile feel 5 to 8 oz. "breakaway" with magnetically accelerated "follow-through"



N.C. OR N.O.



| Part Number | | | | | | |
|------------------|------------|------|-----------|-------|-------------|-----------|
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M6 | Push Pull | Terminals |
| 9-1437567-6 | MSPM101BP | SPST | 18 | | Open Closed | Pin |
| 1437568-2 | MSPM101CP | SPST | 17 | | Closed Open | Pin |

Cap Model C22 supplied with unit.
 Model C23 available, order separately. (See Page D32.)

Push Switch, JLS Series

MATERIAL SPECIFICATIONS:

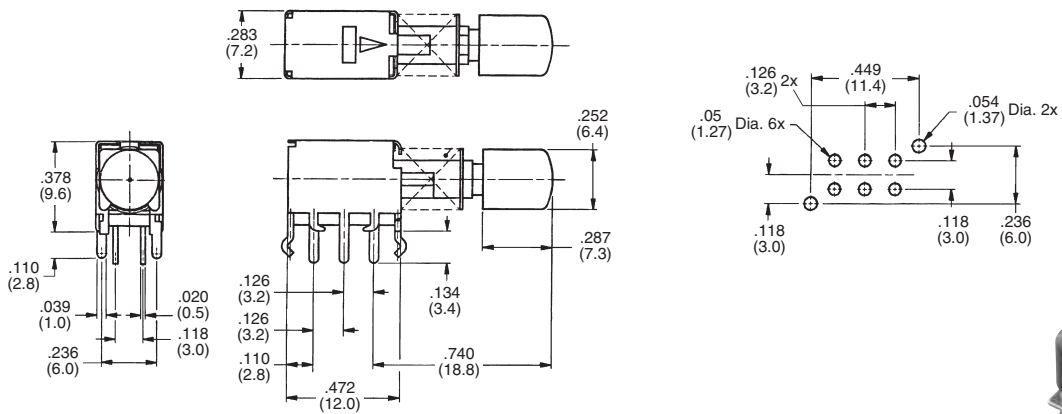
ContactsSilver clad copper
 FrameSteel
 Actuator MaterialAcetal
 Terminals/Fixed Contacts.....Brass, silver plate
 InsulatorPhenol

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating1 Amp @25 VDC
 Initial Contact Resistance100 Milliohms
 Actuation Force300±150 gms
 Actuator Travel0.091 (2.3)
 Life Expectancy.....Up to 10,000 cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +140°F (-10°C to +60°C)



| Part Number | | | |
|------------------|--------------|-----------------|---------------|
| Tyco Electronics | Alcoswitch | Act. Code P. M6 | Actuator Type |
| 1437566-8 | JLS91439FKBC | N | Black Cap |
| 1437566-7 | JLS91439FK | N | Gray Cap |
| 1437566-9 | JLS91439FWC | N | White Cap |

D
MSPM, JLS Series

Pushbutton Switches, Splashproof Boot Seals

A wide selection of stock boot seals for pushbuttons are available in a variety of styles and thread sizes. ALCOSWITCH seals replace standard mounting hardware to provide environmental seal. Fabricated of Neoprene in black and optional red or gray. Custom colors and thread sizes are also available on special order.

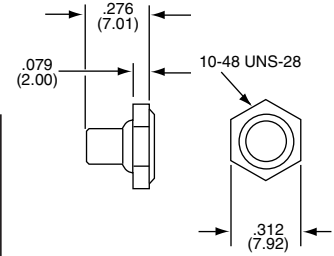


BP10480

10-48 PUSHBUTTON BOOT SEALS

Splashproof seal designed for "TINY" pushbutton switches having a 10-48 bushing and .14" long button actuators. The hex nut is molded-in to the Neoprene seal. No O-Ring is required. Custom colors are available on special order.

| Part Number | | | | | |
|------------------|------------|-------------|------------|-------------|-----------------------|
| Tyco Electronics | Alcoswitch | Mount Color | Boot Color | Thread Size | Use with Switch Types |
| 1-1437626-4 | BP10480 | Black | Black | 10-48 | TP Series |
| 1-1437626-5 | BP10482 | Red | Red | 10-48 | TP Series |
| 1-1437626-6 | BP10488 | Gray | Gray | 10-48 | TP Series |



BPA14400

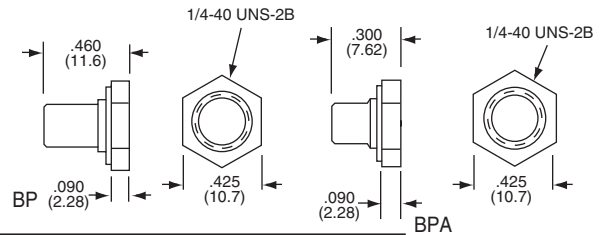


BP14400

1/4-40 PUSHBUTTON BOOT SEALS

Splashproof seals for miniature pushbuttons having a 1/4-40 bushing. The two models allow use with buttons that extend up to .17" (BPA) or up to .33" (BP). The hex nut is molded-in and no O-Ring is required.

| Part Number | | | | | |
|------------------|------------|-------------|------------|-------------|---------------------------------------|
| Tyco Electronics | Alcoswitch | Mount Color | Boot Color | Thread Size | Use with Switch Types |
| 1-1437626-7 | BP14400 | Black | Black | 1/4-40 | MSPM, MPA3, MPS and TP Series |
| 1-1437626-8 | BP14402 | Red | Red | 1/4-40 | MSPM, MPA3, MPS and TP Series |
| 1-1437626-9 | BP14408 | Gray | Gray | 1/4-40 | MSPM, MPA3, MPS and TP Series |
| 2-1437626-7 | BPA14400 | Black | Black | 1/4-40 | MSPMBS, MSPMCS, MSP3, MPA3, TP Series |
| 2-1437626-8 | BPA14402 | Red | Red | 1/4-40 | MSPMBS, MSPMCS, MSP3, MPA3, TP Series |
| 2-1437626-9 | BPA14408 | Gray | Gray | 1/4-40 | MSPMBS, MSPMCS, MSP3, MPA3, TP Series |



BP20100

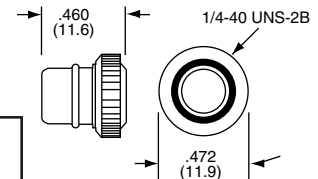


BP1900

1/4-40 PUSHBUTTON BOOT SEALS

Splashproof seals having 1/4-40 blind nuts integrally mounted to the black Neoprene seal. Supplied with a captive O-Ring to complete the panel seal. Used with actuators up to .37" long. Choice of two-tone with nickel finish knurled ring or all black.

| Part Number | | | | | |
|------------------|------------|-------------|------------|-------------|--------------------------------|
| Tyco Electronics | Alcoswitch | Mount Color | Boot Color | Thread Size | Use with Switch Types |
| 2-1437626-3 | BP1900 | Nickel | Black | 1/4-40 | MSPM, MSP3, MPA3 and TP Series |
| 2-1437626-4 | BP2010 | Black | Black | 1/4-40 | MSPM, MSP3, MPA3 and TP Series |

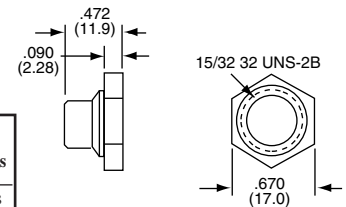


BP15320

15/32-32 PUSHBUTTON BOOT SEALS

Splashproof seals incorporating a molded-in hex nut for water tight and dust tight protection. Replaces standard hardware usually supplied. Recommended for large size pushbutton switches with actuators extending up to .31" long.

| Part Number | | | | | |
|------------------|------------|-------------|------------|-------------|-----------------------|
| Tyco Electronics | Alcoswitch | Mount Color | Boot Color | Thread Size | Use with Switch Types |
| 2-1437626-0 | BP15320 | Black | Black | 15/32-32 | MSPF and MPG Series |
| 2-1437626-1 | BP15322 | Red | Red | 15/32-32 | MSPF and MPG Series |
| 2-1437626-2 | BP15328 | Gray | Gray | 15/32-32 | MSPF and MPG Series |



BP5900

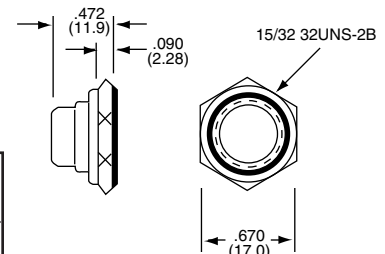


BP5890

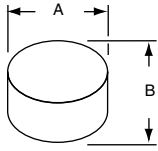
15/32-32 PUSHBUTTON BOOT SEALS

Splashproof seals having 15/32-32 hex shape mounts integrally bonded onto the black Neoprene seal. Supplied with a captive O-Ring for use against the panel. Readily accepts actuators up to .38" in length. Available in two tone with nickel finish hex-mount, or all black.

| Part Number | | | | | |
|------------------|------------|-------------|------------|-------------|-----------------------|
| Tyco Electronics | Alcoswitch | Mount Color | Boot Color | Thread Size | Use with Switch Types |
| 2-1437626-5 | BP5890 | Nickel | Black | 15/32-32 | MSPF and MPG Series |
| 2-1437626-6 | BP5900 | Black | Black | 15/32-32 | MSPF and MPG Series |



Pushbutton Switches, Accessories



CAPS



C5



C22

| Model | ID. | Description | Use Guard | Color | "A" Diameter | B Height |
|--------|---------|-----------------------------------|-----------|-----------------------------------|--------------|----------|
| C5(*) | Snapfit | Small plastic cap for MPA3 Series | - | (0), (2), (5), (9) | .195 | .120 |
| C8(*) | Snapfit | Large plastic cap for MPA3 Series | - | (0), (2), (5), (9) | .310 | .160 |
| C9(*) | Snapfit | Spare color cap for MPG Series | - | (0), (2), (6), (9) | .354 | .138 |
| C22(*) | Snapfit | MPS/MSPM/MPE/MPA6 | G12 | (0), (2), (3), (4), (5), (6), (9) | .394 | .315 |
| C23(*) | Snapfit | MPS/MSPM/MPE/MPA6 | G13 | (0), (2), (3), (4), (5), (6), (9) | .590 | .394 |
| C33(*) | Snapfit | Square button for MSPR | - | (0), (2), (6), (9) | .378SQ. | .201 |

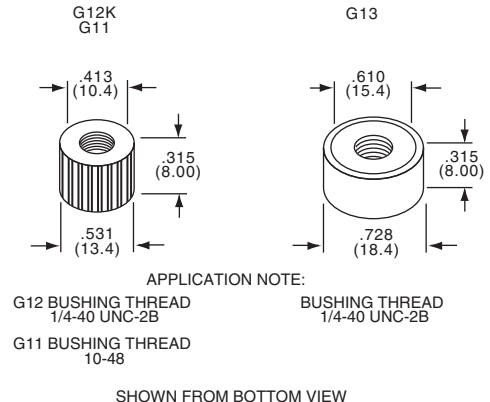
(*) Specify color by adding suffix number: (0) Black, (2) Red, (3) Orange, (4) Yellow, (5) Green, (6) Blue, (9) White.

D

Accessories

| Part Number | | Type | Color | Finish | Can be Used with Cap |
|------------------|------------|--------|----------------|---------|----------------------|
| Tyco Electronics | Alcoswitch | | | | |
| 7-1437627-6 | G11A | 10-48 | Clear aluminum | Plain | C22 — |
| 7-1437627-7 | G11B | 10-48 | Black aluminum | Plain | C22 — |
| 7-1437627-8 | G11C | 10-48 | Chromed Brass | Plain | C22 — |
| 8-1437627-1 | G12A | 1/4-40 | Clear aluminum | Plain | C12 C22 |
| 8-1437627-2 | G12B | 1/4-40 | Black aluminum | Plain | C12 C22 |
| 8-1437627-3 | G12C | 1/4-40 | Chromed brass | Plain | C12 C22 |
| 8-1437627-4 | G12KA | 1/4-40 | Clear aluminum | Knurled | C12 C22 |
| 8-1437627-5 | G12KB | 1/4-40 | Black aluminum | Knurled | C12 C22 |
| 8-1437627-6 | G12KC | 1/4-40 | Chromed brass | Knurled | C12 C22 |
| 8-1437627-7 | G13A | 1/4-40 | Clear aluminum | Plain | C13 C23 |
| 8-1437627-8 | G13B | 1/4-40 | Black aluminum | Plain | C13 C23 |
| 8-1437627-9 | G13C | 1/4-40 | Chromed brass | Plain | C13 C23 |
| 9-1437627-0 | G13KA | 1/4-40 | Clear aluminum | Knurled | C13 C23 |
| 9-1437627-1 | G13KB | 1/4-40 | Black aluminum | Knurled | C13 C23 |
| 9-1437627-2 | G13KC | 1/4-40 | Chromed brass | Knurled | C13 C23 |
| 9-1437627-3 | G15* | 15/32" | Chromed brass | Plain | C13 C23 |

*G15 Model used on the MSPF Series



GUARDS

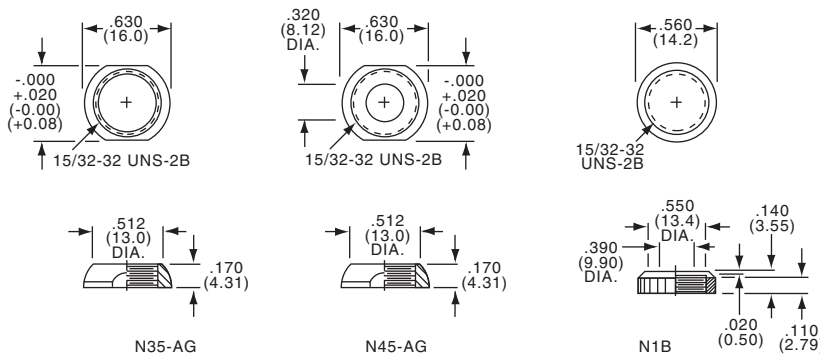


G12K



G13

DECORATIVE HARDWARE



N35-AG



N1B



N45-AG

| Part Number | | Type | Description |
|------------------|------------|--------|-------------------------------------|
| Tyco Electronics | Alcoswitch | | |
| 1-1437628-0 | N1B | 15/32" | "Perfect Fit" knurled nut |
| 1-1437628-4 | N35-AG | 15/32" | Decorative nut (supplied on switch) |
| 1-1437628-7 | N45-AG | 15/32" | "Perfect Fit" decorative nut |

D32

Pushbutton Switches, Panel Seal

FEATURES

The BP Series offers a unique means of sealing pushbutton switches, using a standard 1/4-40 threading bushing, to almost any thickness panel. Simply install the BP adaptor into a 15/32" dia. or 1/2" dia. panel opening and secure with its hex nut. The switch is then threaded into the previously mounted adaptor and tightened into place. A complete and decorative panel seal is the result of the simple process.

MATERIALS

The flexible panel seal is custom molded of Neoprene rubber for long life, flexibility and chemical resistance. The threaded plastic adaptor is molded of ABS thermoplastic, is impact resistant and designed for ease of mounting.

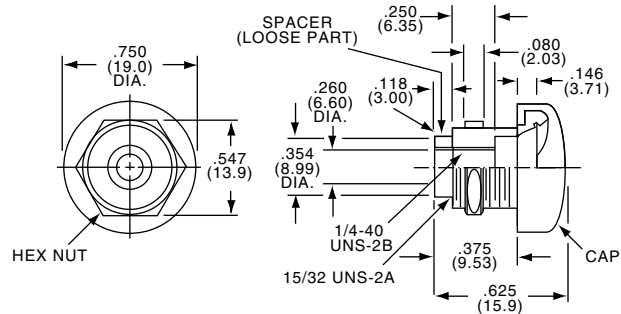
BPM

For use with Miniature Pushbutton

The BPM seal adaptor accommodates all AUGAT/ALCOSWITCH MPA Series of pushbutton switches utilizing the 1/4-40 threaded bushing.



BPM15320



| Part Number | | |
|------------------|------------|----------------|
| Tyco Electronics | Alcoswitch | Color* of Seal |
| 3-1437626-0 | BPM15320 | Black |
| 3-1437626-1 | BPM15322 | Red |
| 3-1437626-2 | BPM15328 | Gray |

(* Custom seal colors are available upon special request.

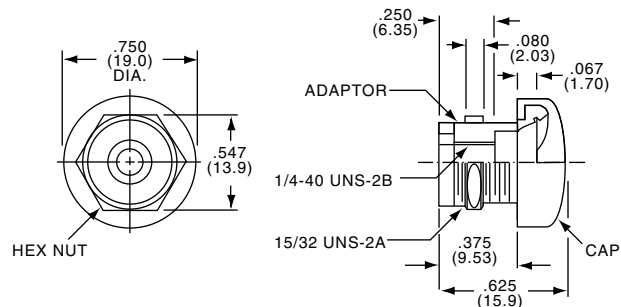
BPT

For use with Tiny Series TPF Pushbutton

The BPT seal adaptor accommodates all AUGAT/ALCOSWITCH TPF Series Tiny Pushbutton switches utilizing the 1/4-40 threading bushing.



BPT15328



| Part Number | | |
|------------------|------------|----------------|
| Tyco Electronics | Alcoswitch | Color* of Seal |
| 3-1437626-3 | BPT15320 | Black |
| 3-1437626-4 | BPT15322 | Red |
| 3-1437626-5 | BPT15328 | Grey |

(* Custom seal colors are available upon special request.

Engineering Notes



D
Engineering Notes



TSP Series - Page D3



TP Series - Page D6



TP-ES Series - Page D13



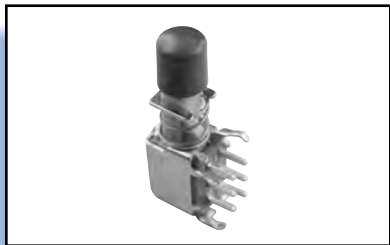
APA Series - Page D16



MPA Series - Page D22



MSPM Series - Page D29



JLS Series - Page D29



BP Series - Page D31

PUSHBUTTON

D

Pushbutton Switches

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| APA1CGRA | D17 |
| APA1FGPC | D16 |
| APA1FGRA | D16 |
| APA21GPC | D16 |
| APA21MGPC | D16 |
| APA21MGRA | D17 |
| APA21RGPC | D16 |
| APA21RGRA | D17 |
| APB1BGPC | D18 |
| APB1BGRA | D18 |
| APB1CGPC | D18 |
| APB1CGRA | D18 |
| APB1FGPC | D18 |
| APB1FGRA | D18 |
| APB21GPC | D18 |
| APB21MGRA | D18 |
| APB21RGPC | D18 |
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| TP11FGRA | D7 |
| TP11FGRA0 | D7 |
| TP11FGRA2 | D7 |
| TP21CGPC | D7 |
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| TP21CCGPC2 | D7 |
| TP21CCGRA | D8 |
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| TP21CCGRA2 | D8 |
| TP21FFGRA | D8 |
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| TPA11FGRA2 | D7 |
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| TPB11CGPC2 | D8 |

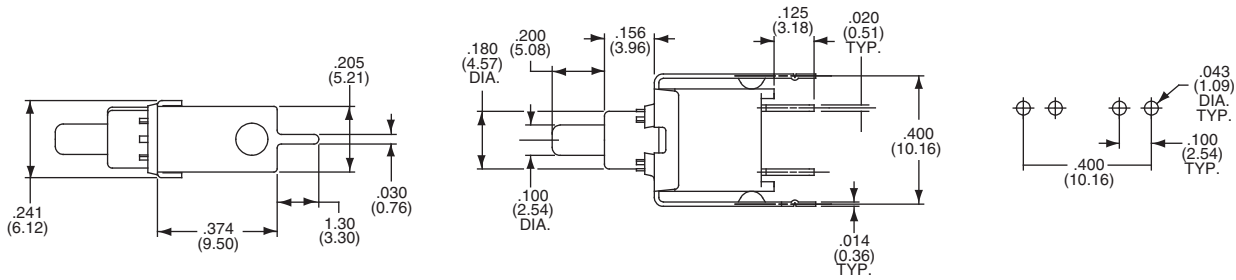
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| TPB11CGRA2 | D8 |
| TPB11CGRAES | D4 |
| TPB11CGRAES0 | D4 |
| TPB11CGRAES2 | D4 |
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| TPB11CGVRA0 | D11 |
| TPB11CGVRA2 | D11 |
| TPB11FGPC | D8 |
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| TPB11FGPC2 | D8 |
| TPB11FGPCES | D13 |
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| TPB11FGPCES2 | D13 |
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| TPB11FGRA2 | D8 |
| TPB11FGRAES | D14 |
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| TPB11FGVRA0 | D11 |
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| TPB21RGPCES0 | D13 |
| TPB21RGRA | D9 |
| TPB21RGRA0 | D9 |
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| TPBF11CGPCES | D15 |
| TPBF11CGPCES0 | D15 |
| TPBF11CGPCES2 | D15 |
| TPBF11CGRA | D10 |
| TPBF11CGRA0 | D10 |
| TPBF11CGRA2 | D10 |
| TPBF11CGRAES | D15 |
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| TPBF11FGPCES | D15 |
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| TPBF11FGRA | D10 |
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| TPBF11FGRAES0 | D15 |
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| TPC11CGPC0 | D8 |
| TPC11CGPC2 | D8 |
| TPC11CGPCES | D13 |
| TPC11CGPCES0 | D13 |
| TPC11CGPCES2 | D13 |
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| TPC11CGRA0 | D8 |
| TPC11CGRA2 | D8 |
| TPC11CGVRA | D11 |
| TPC11CGVRA0 | D11 |
| TPC11FG0 | D6 |
| TPC11FG2 | D6 |
| TPC11FGPC | D8 |
| TPC11FGPC0 | D8 |
| TPC11FGPC2 | D8 |
| TPC11FGPCES | D13 |
| TPC11FGPCES0 | D13 |
| TPC11FGRA | D8 |
| TPC11FGRA0 | D8 |
| TPC11FGRA2 | D8 |
| TPC11FGVRA | D11 |
| TPC11FGVRA0 | D11 |
| TPC11FGVRA2 | D11 |
| TPC13C | D9 |
| TPC13C0 | D9 |
| TPC13C2 | D9 |
| TPC13CPC0 | D6 |
| TPC13F | D9 |
| TPC13F0 | D9 |
| TPC13F2 | D9 |
| TPC21MGPC | D9 |
| TPC21MGPC0 | D9 |
| TPC21MGPCES | D13 |
| TPC21MGRA | D9 |
| TPC21MGRA0 | D9 |
| TPC21MGRA2 | D9 |
| TPC21RGPC0 | D9 |
| TPC21RGPCES | D13 |
| TPC21RGRA | D9 |
| TPC21RGRA0 | D9 |
| TPC23M | D9 |
| TPC23M0 | D9 |
| TPC23R | D9 |
| TPC23R0 | D9 |
| TPC23R2 | D9 |
| TPCF11CGPC | D10 |
| TPCF11CGPC0 | D10 |
| TPCF11CGPC2 | D10 |

| | |
|-----------------|-----|
| TPCF11CGRA0 | D10 |
| TPCF11CGRA2 | D10 |
| TPCF11FGPC | D10 |
| TPCF11FGPC0 | D10 |
| TPCF11FGPCES | D15 |
| TPCF11FGPCES0 | D15 |
| TPCF11FGRA | D10 |
| TPCF11FGRA0 | D10 |
| TPCF13C | D10 |
| TPCF13C0 | D10 |
| TPCF13F | D10 |
| TPCF13F0 | D10 |
| TPD11CGPC | D11 |
| TPD11CGPC0 | D11 |
| TPD11CGPC2 | D11 |
| TPD11CGPCES | D13 |
| TPD11CGPCES0 | D13 |
| TPD11CGRA | D12 |
| TPD11CGRA0 | D12 |
| TPD11CGRA2 | D12 |
| TPD11FGPC | D11 |
| TPD11FGPC0 | D11 |
| TPD11FGPC2 | D11 |
| TPD11FGPCES | D13 |
| TPD11FGPCES0 | D13 |
| TPD11FGRA | D12 |
| TPD11FGRA0 | D12 |
| TPD11FGRA2 | D12 |
| TPD21MGPC | D12 |
| TPD21MGPC0 | D12 |
| TPD21MGPCES | D14 |
| TPD21MGPCES0 | D14 |
| TPD21MGPCES2 | D14 |
| TPD21MGRA | D12 |
| TPD21MGRA0 | D12 |
| TPD21RGPC | D12 |
| TPD21RGPC0 | D12 |
| TPD21RGPCES | D14 |
| TPD21RGPCES0 | D14 |
| TPD21RGRA | D12 |
| TPD21RGRA0 | D12 |
| TPF11CGPC | D11 |
| TPF11CGPC0 | D11 |
| TPF11CGPCES | D13 |
| TPF11CGPCES0 | D13 |
| TPF11CGRA | D12 |
| TPF11CGRA0 | D12 |
| TPF11CGRA2 | D12 |
| TPF11CGRAES0 | D6 |
| TPF11FGPC | D11 |
| TPF11FGPC0 | D11 |
| TPF11FGPC2 | D11 |
| TPF11FGPCES | D13 |
| TPF11FGPCES0 | D13 |
| TPF11FGPCES2 | D13 |
| TPF11FGRA | D12 |
| TPF11FGRA0 | D12 |
| TPF11FGRA2 | D12 |
| TPF13C | D11 |
| TPF13C0 | D11 |
| TPF13C2 | D11 |
| TPF13F | D11 |
| TPF13F0 | D11 |
| TPF13F2 | D11 |
| TPF21MGPC | D12 |
| TPF21MGPC0 | D12 |
| TPF21MGPCES | D14 |
| TPF21MGPCES0 | D14 |
| TPF21MGRA | D12 |
| TPF21MGRA0 | D12 |
| TPF21RGPC | D12 |
| TPF21RGPC0 | D12 |
| TPF21RGPCES | D14 |
| TPF21RGPCES0 | D14 |
| TPF21RGRA | D12 |
| TPF21RGRA0 | D12 |
| TPF23M | D11 |
| TPF23M0 | D11 |
| TPF23M2 | D11 |
| TPF23R | D11 |
| TPF23R0 | D11 |
| TPF23R2 | D11 |
| TSPD11CGPC0 | D3 |
| TSPD11CGPC2 | D3 |
| TSPD11CGPCV0 | D3 |
| TSPD11CGRA0 | D3 |
| TSPD11CGRA2 | D3 |
| TSPD11CGRA6 | D3 |
| TSPD11CGSPC0 | D3 |
| TSPD11CGSRA0 | D3 |
| TSPD11CGSRA2 | D3 |
| TSPD11CGSRAB0 | D3 |
| TSPD11CGVRA0 | D3 |
| TSPD11FGPC0 | D3 |
| TSPD11FGPCV0 | D3 |
| TSPD11FGSRA0 | D3 |
| TSPD11FGSRA2 | D3 |
| TSPD11FGSRA6 | D3 |
| TSPD11FGVRA0 | D3 |
| TSPDF11CGPC0 | D3 |
| TSPDF11CGRA0 | D3 |
| TSPDF11CGSRA0 | D3 |
| TSPDF11CGSRA0TR | D3 |
| TSPDF11CGVRA0 | D3 |
| TSPDF11FGPC0 | D3 |
| TSPDF11FGRA0 | D3 |
| TSPDF11FGSRA0 | D3 |
| TSPDF11FGVRA0 | D3 |

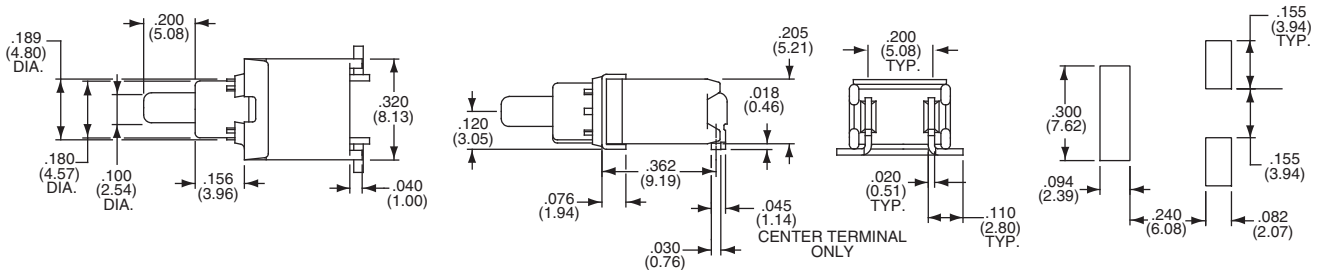
D
Pushbutton Switches

Pushbutton Switches, Tiny, Process Sealed, Mounting Options

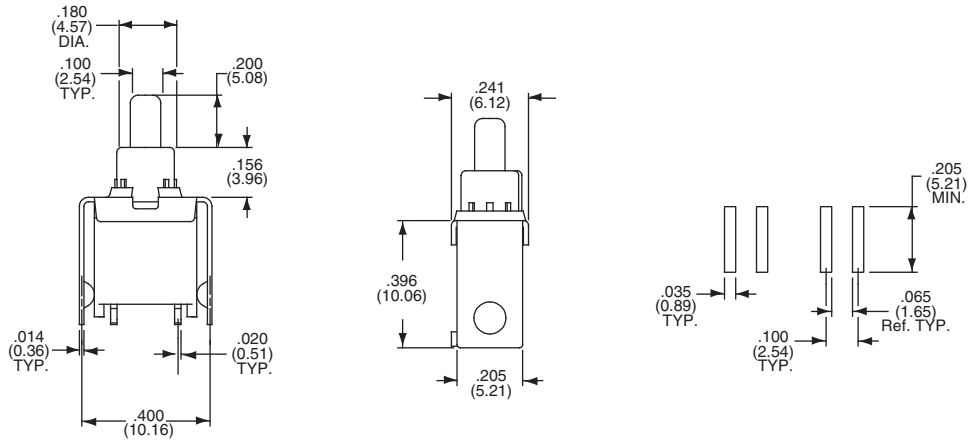
PCV PC WITH VERTICAL SUPPORT BRACKET



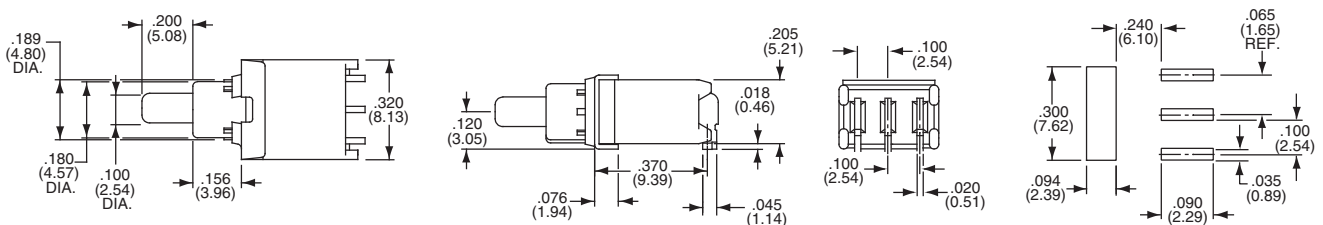
SRA SURFACE MOUNT RIGHT ANGLE "L" BEND



SPC SURFACE MOUNT WITH SUPPORT BRACKET



SRAB SURFACE MOUNT RIGHT ANGLE BUTT

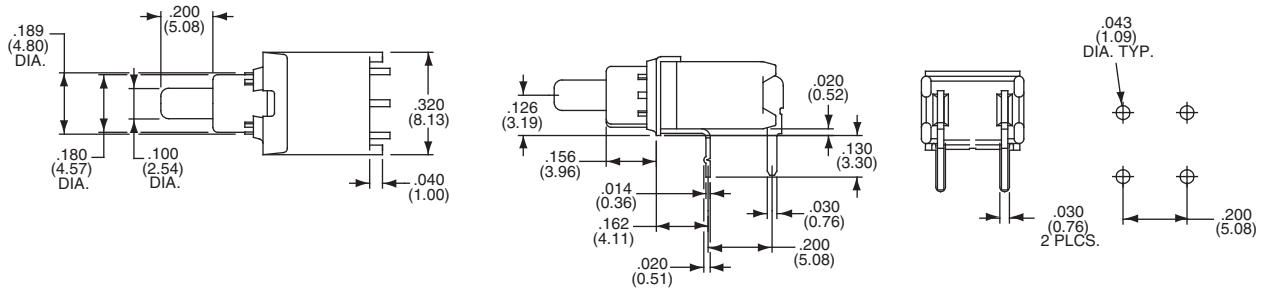


D

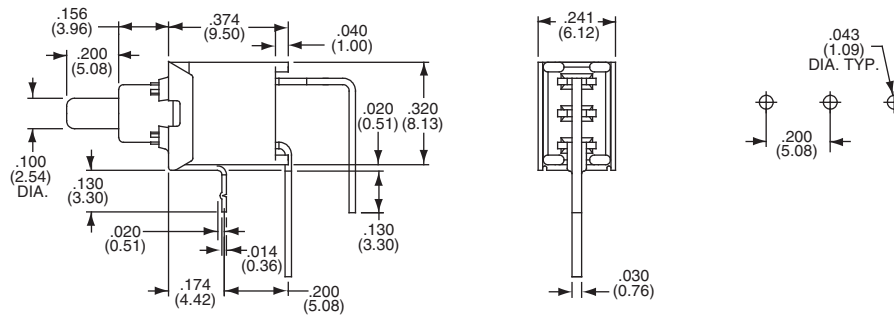
TSP Series

Pushbutton Switches, Tiny, Process Sealed Options

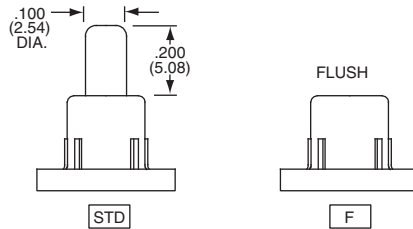
RIGHT ANGLE RA



PC WITH VERTICAL SUPPORT BRACKET VRA



ACTUATORS



Pushbutton Switches, Tiny, Part Number Matrix

MATERIAL SPECIFICATIONS:

ContactsGold - gold plate, silver - silver plate
 Case MaterialHigh temperature polyester
 Actuator Material.....Polyamide
 Terminals/Fixed ContactsTin lead plate
 Terminal Seal.....SP epoxy, DP epoxy optional

TYPICAL PERFORMANCE CHARACTERISTICS:

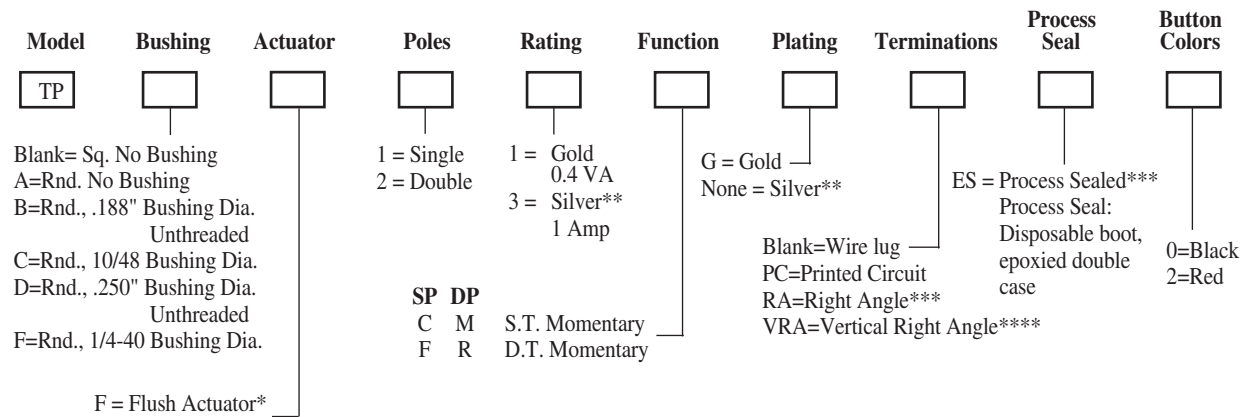
Contact RatingGold: 0.4 VA Max. @ 20 VDC or peak AC
 Silver: 1A @ 125 VAC or 28 VDC resistive
 Initial Contact Resistance20 Milliohms max.
 Contact TimingBreak-before-make
 Insulation Resistance1,000 Megohms @ 500VDC min.
 Dielectric Strength.....1,000 Volts @ sea level
 Actuation Force50 to 400 Grams
 Plunger/Actuator Travel030" (.762)
 Life ExpectancySee below
 Note: Hardware included with switches

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-22°F to +149°F (-30°C to +65°C)
 Storage Temperature-22°F to +149°F (-30°C to +65°C)
 Solder Heat ResistanceSee page M3-4

PART NUMBERING MATRIX

TP Series



- * Available with "B" and "C" bushing only
- ** Silver - available only in wire lug and PC termination
- *** Right angle, ES available with "B" and "C" bushing only
- **** Available only in single pole

ES switches provided with disposable boot used only during cleaning operation.

Application Note:

For 3 pole and 4 pole, refer to pages D22 and D24 . . . "MP Series"
 For Surface Mount termination, refer to pages D3-D5 . . . "TSP Series"

| Pushbuttons | 1 Pole | 2 Pole |
|-------------------|---------|--------|
| 0.4 (Gold Plate) | 100,000 | 80,000 |
| 1A (Silver Plate) | 60,000 | 50,000 |

PROCESS SEAL VERSION NOT



TP



TPA

PROCESS SEAL VERSION AVAILABLE



TPB



TPC



TPD

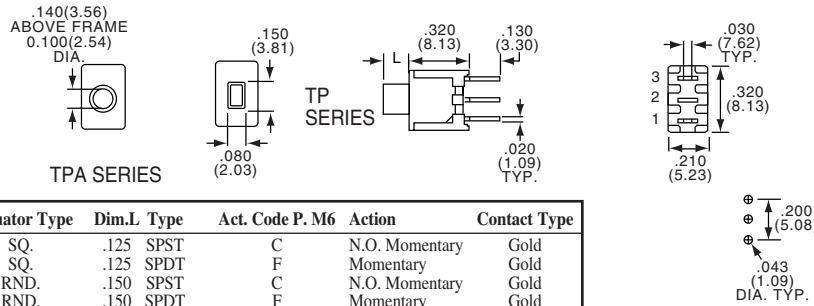


TPF

SERIES (TP)

Pushbutton Switches, Tiny, Straight or Right Angle, Single or Dual Actuators

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS



SPST/SPDT



TP11CGPC0

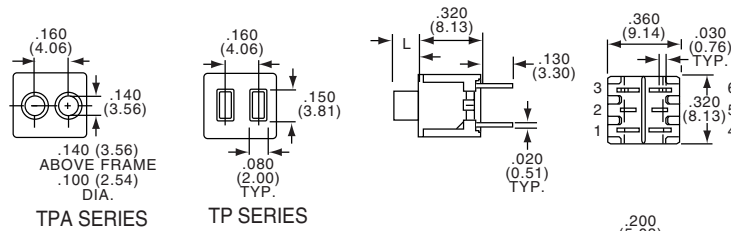


TPA11CGPC0

| Model | Actuator Type | Dim.L | Type | Act. Code | P. M6 | Action | Contact Type |
|--------------|---------------|-------|------|-----------|-------|----------------|--------------|
| TP11CGPC(*) | SQ. | .125 | SPST | C | | N.O. Momentary | Gold |
| TP11FGPC(*) | SQ. | .125 | SPDT | F | | Momentary | Gold |
| TPA11CGPC(*) | RND. | .150 | SPST | C | | N.O. Momentary | Gold |
| TPA11FGPC(*) | RND. | .150 | SPDT | F | | Momentary | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

D
TP/TPA Series



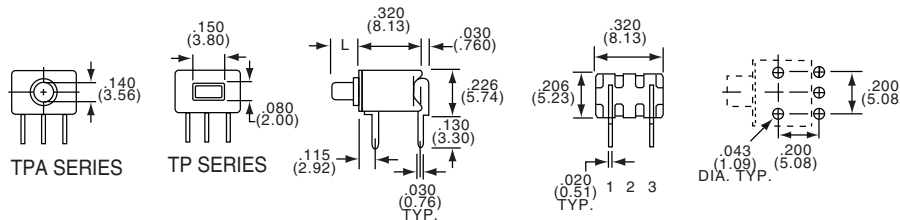
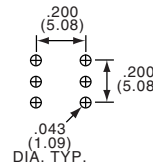
SPST/SPDT (DUAL)



TP21CCGPC0

| Model | Actuator Type | Dim.L | Type | Act. Code | P. M6 | Action | Contact Type |
|---------------|---------------|-------|--------|-----------|-------|----------------|--------------|
| TP21CCGPC(*) | SQ. | .125 | 2xSPST | C | | N.O. Momentary | Gold |
| TPA21CCGPC(*) | RND. | .150 | 2xSPST | C | | N.O. Momentary | Gold |
| TPA21FFGPC(*) | RND. | .150 | 2xSPDT | F | | Momentary | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.



SPST/SPDT



TPA11CGRA



TP11CGRA

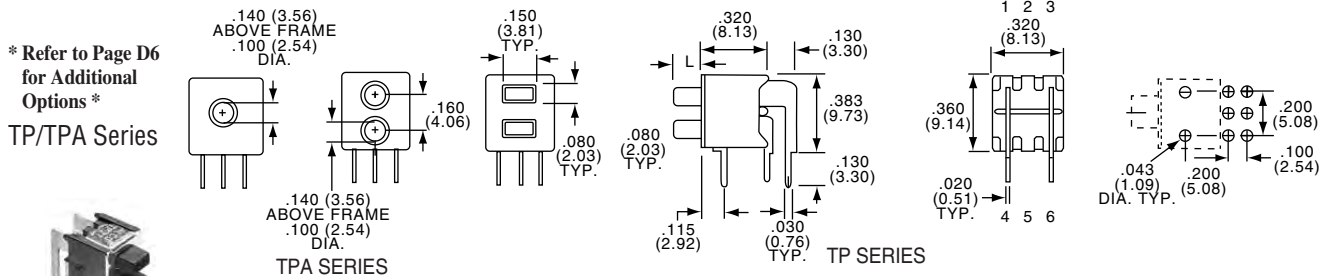
| Model | Actuator Type | Dim.L | Type | Act. Code | P. M6 | Action | Contact Type |
|--------------|---------------|-------|------|-----------|-------|----------------|--------------|
| TP11CGRA(*) | SQ. | .125 | SPST | C | | N.O. Momentary | Gold |
| TP11FGRA(*) | SQ. | .125 | SPDT | F | | Momentary | Gold |
| TPA11CGRA(*) | RND. | .150 | SPST | C | | N.O. Momentary | Gold |
| TPA11FGRA(*) | RND. | .150 | SPDT | F | | Momentary | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.



Pushbutton Switches, Tiny, Right Angle, Single or Dual Actuators

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS



* Refer to Page D6 for Additional Options*
TP/TPA Series



TP21CCGRA0

SPST/SPDT (DUAL)
DPST

| Model | Actuator Type | Dim.L | Type | Act. Code P. M6 | Action | Contact Type |
|---------------|---------------|-------|--------|-----------------|----------------|--------------|
| TP21CCGRA(*) | SQ. | .125 | 2xSPST | C | N.O. Momentary | Gold |
| TP21FFGRA(*) | SQ. | .125 | 2xSPDT | F | Momentary | Gold |
| TPA21MGRA(*) | RND. | .150 | DPST | M | N.O. Momentary | Gold |
| TPA21CCGRA(*) | RND. | .150 | 2xSPST | C | N.O. Momentary | Gold |
| TPA21FFGRA(*) | RND. | .150 | 2xSPDT | F | Momentary | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" or "M" action switch.

Pushbutton Switches, Tiny, Straight or Right Angle, Unthreaded or 10-48 Bushing

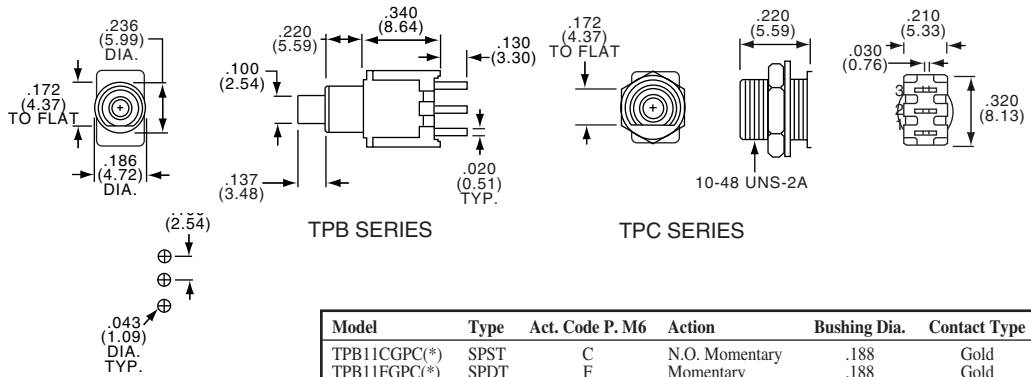
SPST/SPDT



TPB11CGPC



TPC11FGPC



| Model | Type | Act. Code P. M6 | Action | Bushing Dia. | Contact Type |
|--------------|------|-----------------|----------------|--------------|--------------|
| TPB11CGPC(*) | SPST | C | N.O. Momentary | .188 | Gold |
| TPB11FGPC(*) | SPDT | F | Momentary | .188 | Gold |
| TPC11CGPC(*) | SPST | C | N.O. Momentary | 10-48 | Gold |
| TPC11FGPC(*) | SPDT | F | Momentary | 10-48 | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

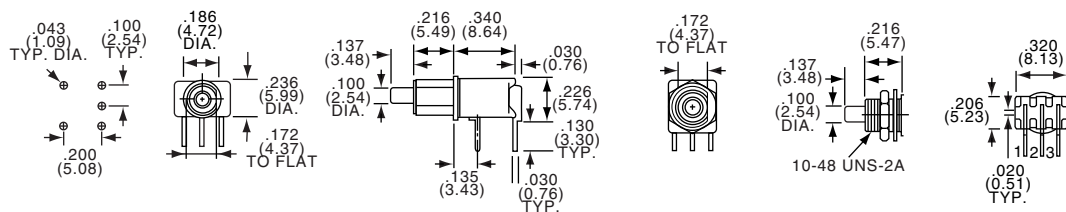
DPST/DPDT



TPB11CGRA



TPC11CGRA

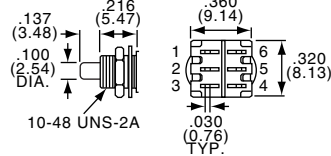
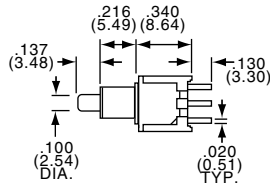
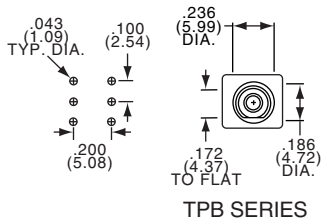


| Model | Type | Act. Code P. M6 | Action | Bushing Dia. | Contact Type |
|--------------|------|-----------------|----------------|--------------|--------------|
| TPB11CGRA(*) | SPST | C | N.O. Momentary | .188 | Gold |
| TPB11FGRA(*) | SPDT | F | Momentary | .188 | Gold |
| TPC11CGRA(*) | SPST | C | N.O. Momentary | 10-48 | Gold |
| TPC11FGRA(*) | SPDT | F | Momentary | 10-48 | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

Pushbutton Switches, Tiny, Straight or Right Angle, Unthreaded or 10-48 Bushing

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS
DPST/DPDT



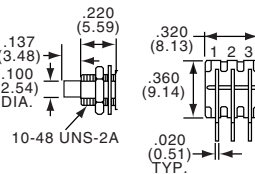
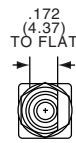
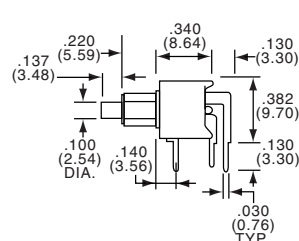
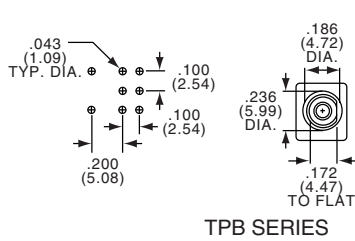
TPB21MGPC



TPC21RGPC

| Model | Type | Act. Code P. M6 | Action | Bushing Dia. | Contact Type |
|--------------|------|-----------------|----------------|--------------|--------------|
| TPB21MGPC(*) | DPST | M | N.O. Momentary | .188 | Gold |
| TPB21RGPC(*) | DPDT | R | Momentary | .188 | Gold |
| TPC21MGPC(*) | DPST | M | N.O. Momentary | 10-48 | Gold |
| TPC21RGPC(*) | DPDT | R | Momentary | 10-48 | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "M" action switch.



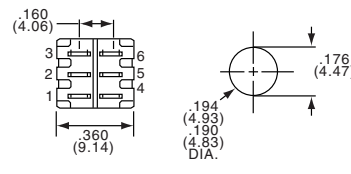
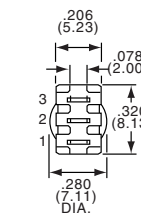
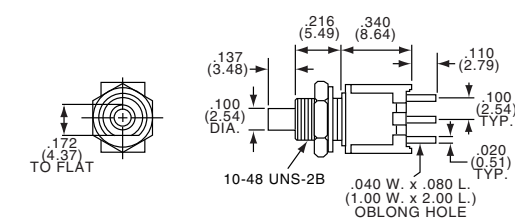
DPST/DPDT



TPC21MGRA

| Model | Type | Act. Code P. M6 | Action | Bushing Dia. | Contact Type |
|--------------|------|-----------------|----------------|--------------|--------------|
| TPB21MGRA(*) | DPST | M | N.O. Momentary | .188 | Gold |
| TPB21RGRA(*) | DPDT | R | Momentary | .188 | Gold |
| TPC21MGRA(*) | DPST | M | N.O. Momentary | 10-48 | Gold |
| TPC21RGRA(*) | DPDT | R | Momentary | 10-48 | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "M" action switch.



1 & 2 POLE



TPC23M



TPC13C

| Model | Type | Act. Code P. M6 | Action | Contact Type |
|-----------|------|-----------------|----------------|--------------|
| TPC13C(*) | SPST | C | N.O. Momentary | Silver |
| TPC13F(*) | SPDT | F | Momentary | Silver |
| TPC23M(*) | DPST | M | N.O. Momentary | Silver |
| TPC23R(*) | DPDT | R | Momentary | Silver |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" or "M" action switches.

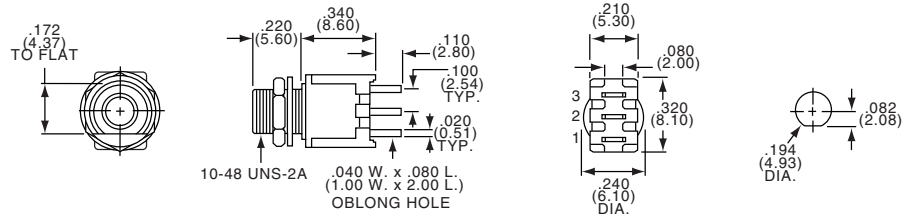
Pushbutton Switches, Tiny, Straight or Right Angle, Flush Actuator

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS

SPST/SPDT
Wire Lugs 10-48 Bushing



TPCF13C



| Model | Silver Contacts | Type | Act. Code P. M6 | Action | Bushing Type |
|------------|-----------------|------|-----------------|----------------|--------------|
| TPCF13C(*) | | SPST | C | N.O. Momentary | Threaded |
| TPCF13F(*) | | SPDT | F | Momentary | Threaded |

(*) Specify button color by adding suffix numbers: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

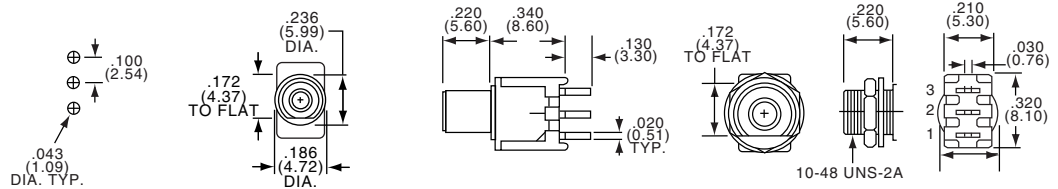
SPST/SPDT
PC 10-48 Bushing



TPBF11FGPC



TPCF11CGPC



TPB SERIES

TPC SERIES

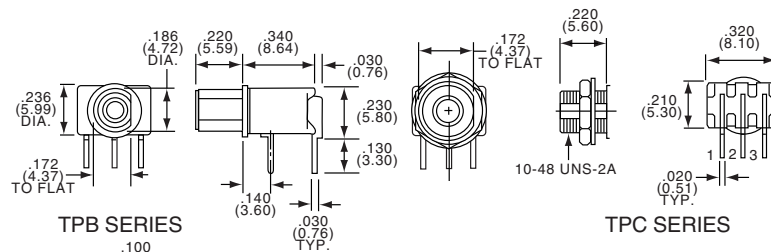
| Model | Gold Contacts | Type | Act. Code P. M6 | Action | Bushing Type |
|---------------|---------------|------|-----------------|----------------|--------------|
| TPBF11CGPC(*) | | SPST | C | N.O. Momentary | Unthreaded |
| TPBF11FGPC(*) | | SPDT | F | Momentary | Unthreaded |
| TPCF11CGPC(*) | | SPST | C | N.O. Momentary | Threaded |
| TPCF11FGPC(*) | | SPDT | F | Momentary | Threaded |

(*) Specify button color by adding suffix numbers: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

SPST/SPDT
RA 10-48 Bushing



TPBF11CGRA



TPB SERIES

TPC SERIES

| Model | Gold Contacts | Type | Act. Code P. M6 | Action | Bushing Type |
|---------------|---------------|------|-----------------|----------------|--------------|
| TPBF11CGRA(*) | | SPST | C | N.O. Momentary | Unthreaded |
| TPBF11FGRA(*) | | SPDT | F | Momentary | Unthreaded |
| TPCF11CGRA(*) | | SPST | C | N.O. Momentary | Threaded |
| TPCF11FGRA(*) | | SPDT | F | Momentary | Threaded |

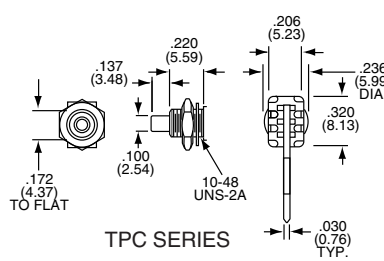
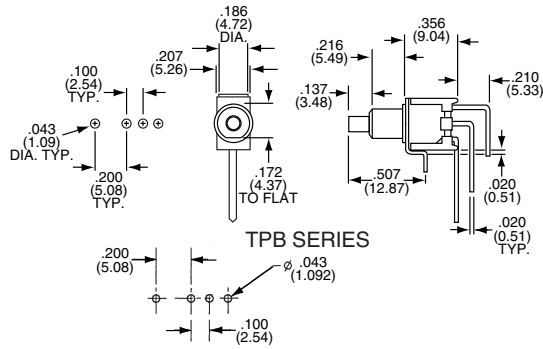
(*) Specify button color by adding suffix numbers: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

D

TPB/TPC and TP Series

Pushbutton Switches, Tiny, Vertical Right Angle, Unthreaded or 10-48 Bushing

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS

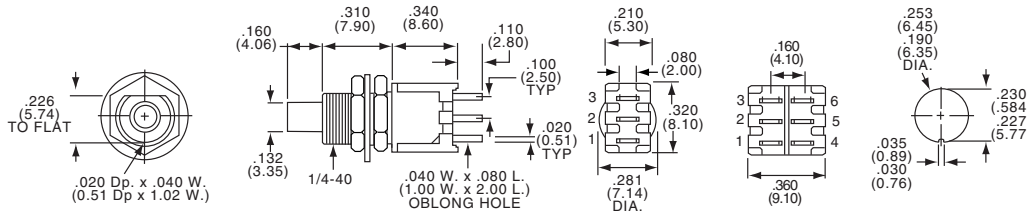


TPB11FGVRA

| Model | Type | Act. Code | P. M6 | Action | Contact Type |
|---------------|------|-----------|-------|----------------|--------------|
| TPB11CGVRA(*) | SPST | C | | N.O. Momentary | Gold |
| TPB11FGVRA(*) | SPDT | F | | Momentary | Gold |
| TPC11CGVRA(*) | SPST | C | | N.O. Momentary | Gold |
| TPC11FGVRA(*) | SPDT | F | | Momentary | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
 Note: No center terminal on "C" action switches.

Pushbutton Switches, Tiny, Vertical, Unthreaded or 1/4-40 Bushing



1 & 2 POLE



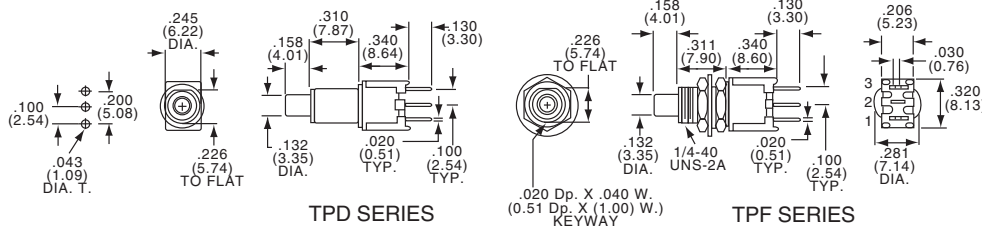
TPF23M



TPF13C

| Model | Type | Act. Code | P. M6 | Action | Contact Type |
|-----------|------|-----------|-------|----------------|--------------|
| TPF13C(*) | SPST | C | | N.O. Momentary | Silver |
| TPF13F(*) | SPDT | F | | Momentary | Silver |
| TPF23M(*) | DPST | M | | N.O. Momentary | Silver |
| TPF23R(*) | DPDT | R | | Momentary | Silver |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
 Note: No center terminal on "C" or "M" action switches.



SPST/SPDT



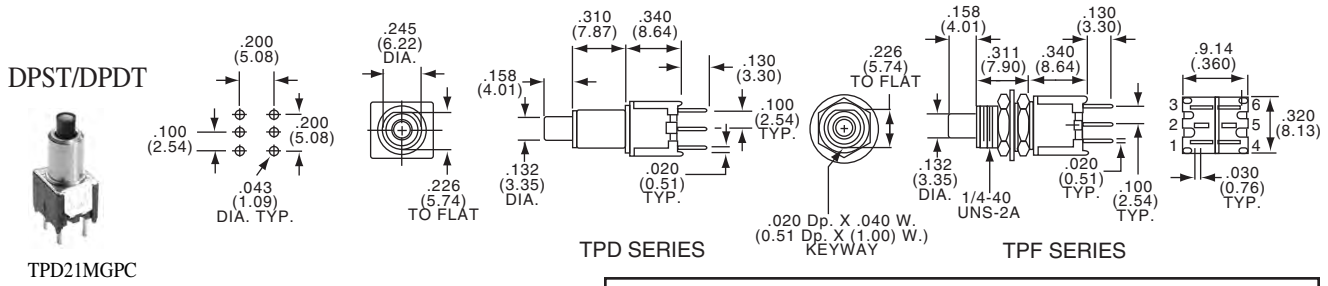
TPD11CGPC

| Model | Type | Act. Code | P. M6 | Action | Bushing Dia. | Contact Type |
|--------------|------|-----------|-------|----------------|--------------|--------------|
| TPD11CGPC(*) | SPST | C | | N.O. Momentary | .250 | Gold |
| TPD11FGPC(*) | SPDT | F | | Momentary | .250 | Gold |
| TPF11CGPC(*) | SPST | C | | N.O. Momentary | 1/4-40 | Gold |
| TPF11FGPC(*) | SPDT | F | | Momentary | 1/4-40 | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
 NOTE: No center terminal on "C" action switch.

Pushbutton Switches, Tiny, Vertical or Right Angle, Unthreaded or 1/4-40 Bushing

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS



| Model | Type | Act. Code | P. M6 | Action | Bushing Dia. | Contact Type |
|--------------|------|-----------|-------|----------------|--------------|--------------|
| TPD21MGPC(*) | DPST | M | | N.O. Momentary | .250 | Gold |
| TPD21RGPC(*) | DPDT | R | | Momentary | .250 | Gold |
| TPF21MGPC(*) | DPST | M | | N.O. Momentary | 1/4-40 | Gold |
| TPF21RGPC(*) | DPDT | R | | Momentary | 1/4-40 | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminals on "M" Action switches.

D

TPD/TPF Series

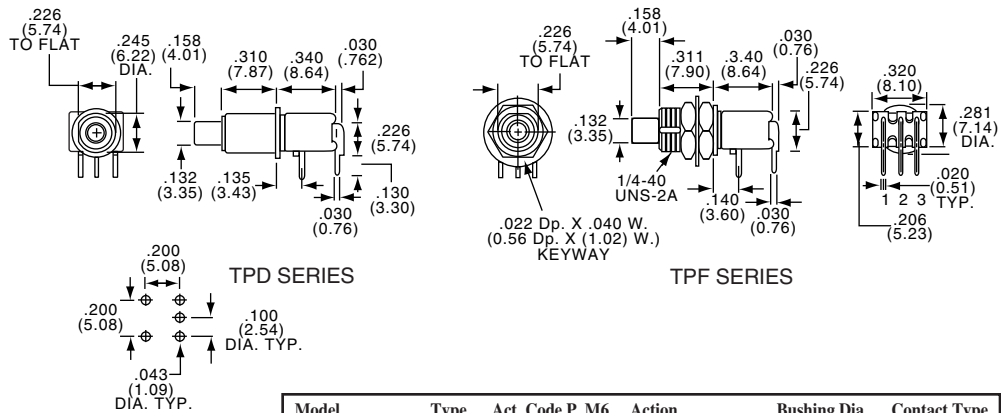
SPST/SPDT



TPD11CGRA



TPF11CGRA



| Model | Type | Act. Code | P. M6 | Action | Bushing Dia. | Contact Type |
|--------------|------|-----------|-------|----------------|--------------|--------------|
| TPD11CGRA(*) | SPST | C | | N.O. Momentary | .250 | Gold |
| TPD11FGRA(*) | SPDT | F | | Momentary | .250 | Gold |
| TPF11CGRA(*) | SPDT | C | | N.O. Momentary | 1/4-40 | Gold |
| TPF11FGRA(*) | SPDT | F | | Momentary | 1/4-40 | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

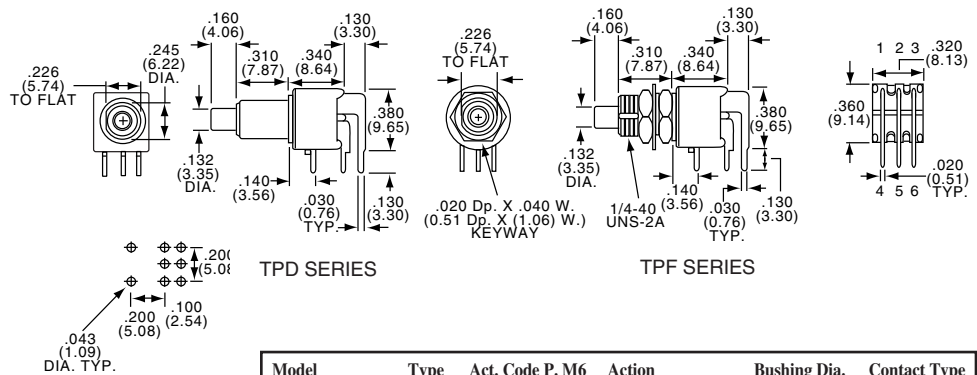
DPST/DPDT



TPF21MGRA



TPD21MGRA



| Model | Type | Act. Code | P. M6 | Action | Bushing Dia. | Contact Type |
|--------------|------|-----------|-------|----------------|--------------|--------------|
| TPD21MGRA(*) | DPST | M | | N.O. Momentary | .250 | Gold |
| TPD21RGRA(*) | DPDT | R | | Momentary | .250 | Gold |
| TPF21MGRA(*) | DPST | M | | N.O. Momentary | 1/4-40 | Gold |
| TPF21RGRA(*) | DPDT | R | | Momentary | 1/4-40 | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "M" Action switches.

Pushbutton Switches, Tiny, Process Sealed, Straight

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS

* Refer to Page D6 for Additional Options *

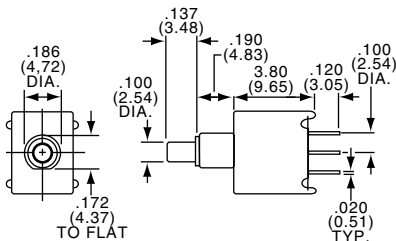
SPST/SPDT



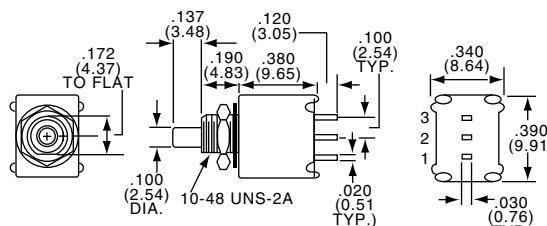
TPB11CGPCES



TPC11CGPCES



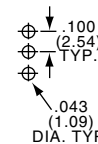
TPB SERIES



TPC SERIES

| Model | Type | Act. Code | P. M6 | Action | Bushing Dia. | Contact Type |
|----------------|------|-----------|-------|----------------|--------------|--------------|
| TPB11CGPCES(*) | SPST | C | | N.O. Momentary | .188 | Gold |
| TPB11FGPCES(*) | SPDT | F | | Momentary | .188 | Gold |
| TPC11CGPCES(*) | SPST | C | | N.O. Momentary | 10-48 | Gold |
| TPC11FGPCES(*) | SPDT | F | | Momentary | 10-48 | Gold |

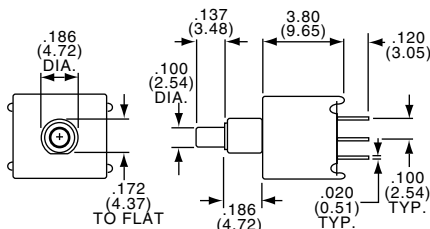
(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.



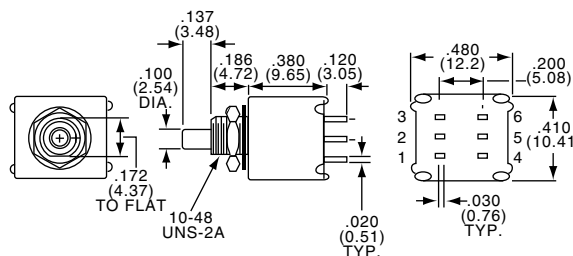
DPST/DPDT



TPB21RGPCEs



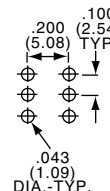
TPB SERIES



TPC SERIES

| Model | Type | Act. Code | P. M6 | Action | Bushing Dia. | Contact Type |
|----------------|------|-----------|-------|----------------|--------------|--------------|
| TPB21MGPCEs(*) | DPST | M | | N.O. Momentary | .188 | Gold |
| TPB21RGPCEs(*) | DPDT | R | | Momentary | .188 | Gold |
| TPC21MGPCEs(*) | DPST | M | | N.O. Momentary | 10-48 | Gold |
| TPC21RGPCEs(*) | DPDT | R | | Momentary | 10-48 | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "M" action switch.



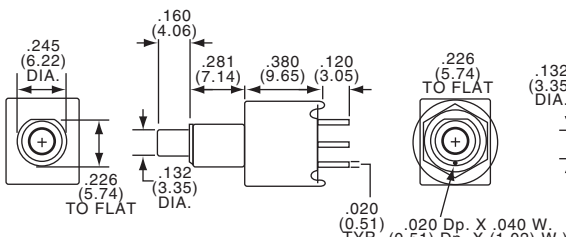
SPST/SPDT



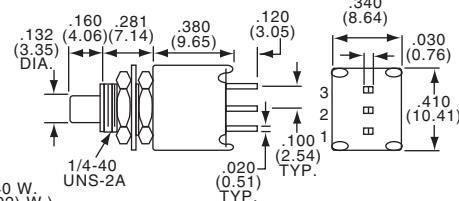
TPD11CGPCES



TPF11CGPCES



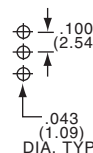
TPD SERIES



TPF SERIES

| Model | Type | Act. Code | P. M6 | Action | Bushing Dia. | Contact Type |
|----------------|------|-----------|-------|----------------|--------------|--------------|
| TPD11CGPCES(*) | SPST | C | | N.O. Momentary | .250 | Gold |
| TPD11FGPCES(*) | SPDT | D | | Momentary | .250 | Gold |
| TPF11CGPCES(*) | SPST | C | | N.O. Momentary | .250 | Gold |
| TPF11FGPCES(*) | SPDT | F | | Momentary | .250 | Gold |

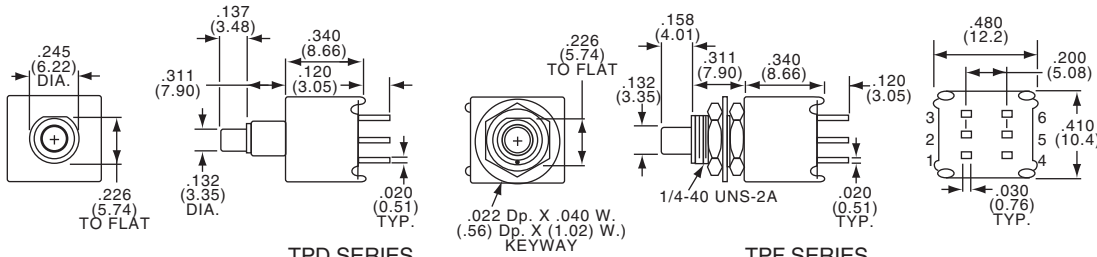
(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.



Pushbutton Switches, Tiny, Process Sealed, Straight or Right Angle

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS

DPST/DPDT

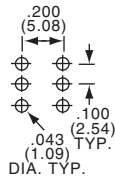


TPD SERIES

TPF SERIES



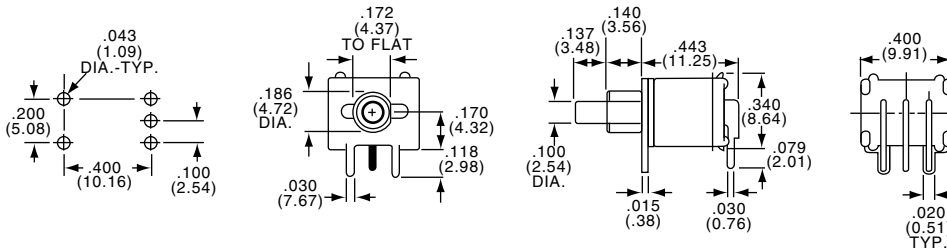
TPD21MGPCES



| Model | Type | Act. Code | P. M6 | Action | Bushing Dia. | Contact Type |
|----------------|------|-----------|-------|----------------|--------------|--------------|
| TPD21MGPCES(*) | DPST | M | | N.O. Momentary | .250 | Gold |
| TPD21RGPCES(*) | DPDT | R | | Momentary | .250 | Gold |
| TPF21MGPCES(*) | DPST | M | | N.O. Momentary | 1/4-40 | Gold |
| TPF21RGPCES(*) | DPDT | R | | Momentary | 1/4-40 | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "M" action switch.

SPST/SPDT

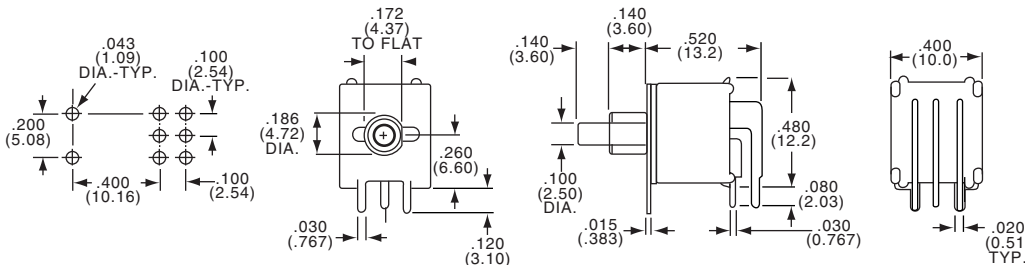


TPB11CGRAES

| Model | Type | Act. Code | P. M6 | Action | Bushing Dia. | Contact Type |
|----------------|------|-----------|-------|----------------|--------------|--------------|
| TPB11CGRAES(*) | SPST | C | | N.O. Momentary | .188 | Gold |
| TPB11FGRAES(*) | SPDT | F | | Momentary | .188 | Gold |

(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

DPST/DPDT

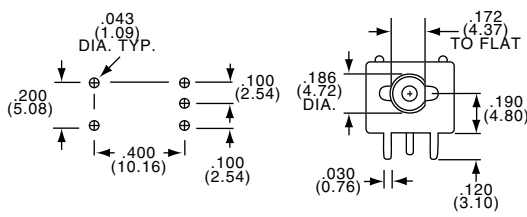


| Model | Type | Act. Code | P. M6 | Action | Bushing Dia. | Contact Type |
|-----------------|------|-----------|-------|----------------|--------------|--------------|
| TPB21MGRRAES(*) | DPST | M | | N.O. Momentary | .188 | Gold |
| TPB21RGRRAES(*) | DPDT | R | | Momentary | .188 | Gold |

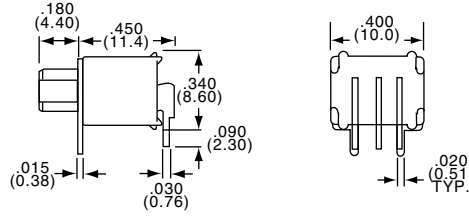
(*) Specify button color by adding suffix number: (0) Black, (2) Red.
Note: No center terminal on "M" action switch.

Pushbutton Switches, Tiny, Process Sealed, Flush Actuator, Straight or Right Angle

SEE PAGE D6 FOR PRODUCT SPECIFICATIONS



TPBF Series



SPST/SPDT

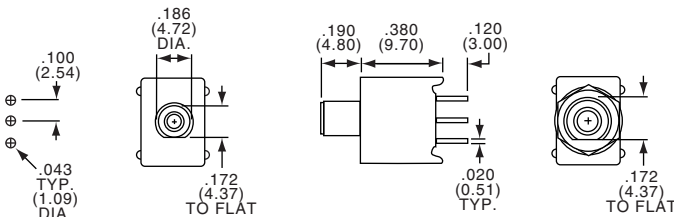


TPBF11CGRAES0

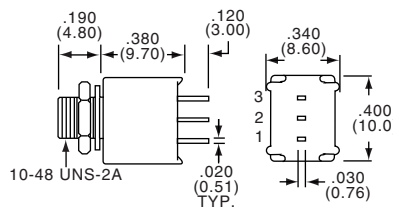
| Model | Type | Act. Code P. M6 | Action |
|-----------------|------|-----------------|----------------|
| TPBF11CGRAES(*) | SPST | C | N.O. Momentary |
| TPBF11FGRAES(*) | SPDT | F | Momentary |

(*) Specify button color by adding suffix numbers: (0) Black, (2) Red.

Note: No center terminal on "C" Action switches.



TPBF Series



TPCF Series

SPST/SPDT



TPBF11CGPCES

| Model | Type | Act. Code P. M6 | Action |
|-----------------|------|-----------------|----------------|
| TPBF11CGPCES(*) | SPST | C | N.O. Momentary |
| TPBF11FGPCES(*) | SPDT | F | Momentary |
| TPCF11FGPCES(*) | SPDT | F | Momentary |

(*) Specify button color by adding suffix numbers: (0) Black, (2) Red.
Note: No center terminal on "C" action switch.

Pushbutton Switches, .120 Actuator, Straight

MATERIAL SPECIFICATIONS:

ContactsGold plate
 Case MaterialPolyester
 Actuator MaterialPolyester, black
 Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
 Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

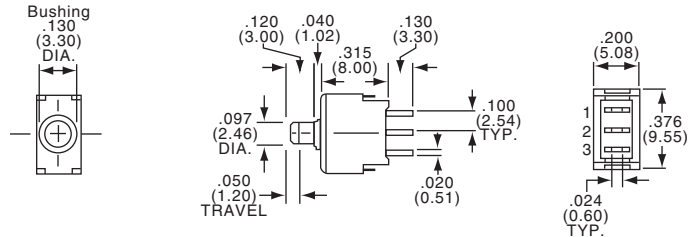
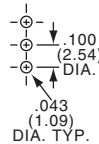
Contact Rating0.4 VA Max. @ 20 VDC or peak AC
 Initial Contact Resistance50 Milliohms max.
 Contact TimingBreak-before-make
 Insulation Resistance1,000 Megohms @ 500 VDC min.
 Dielectric Strength500 Volts RMS @ sea level
 Actuator Travel......050" (1.27)
 Life ExpectancyUp to 10,000 Cycles

FOR SEALED VERSIONS SEE PAGES D19 AND D20

SPST/SPDT



APA1BGPC



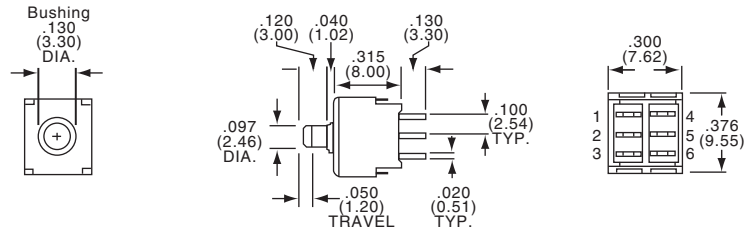
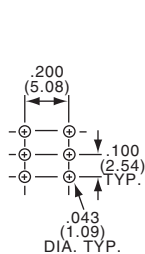
| Part Number | | | | | |
|------------------|------------|------|----------------|-----|-------|
| Tyco Electronics | Alcoswitch | Type | Action | | |
| 1437567-2 | APA1BGPC | SPST | N.C. Momentary | 1-3 | (—) |
| 1437567-3 | APA1CGPC | SPST | N.O. Momentary | — | (1-3) |
| 1437567-5 | APA1FGPC | SPDT | Momentary | 2-3 | (2-1) |

Note: No center terminals on "B" or "C" action switches.

DPST/DPDT



APA2MGPC

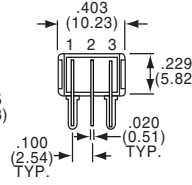
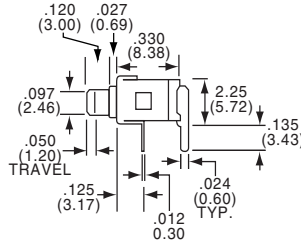
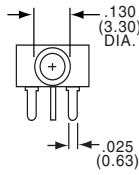
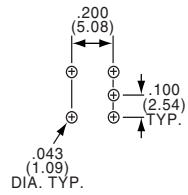


| Part Number | | | | | |
|------------------|------------|------|----------------|----------|------------|
| Tyco Electronics | Alcoswitch | Type | Action | | |
| — | APA2LGPC | DPST | N.C. Momentary | 1-3, 4-6 | (—) |
| 1437567-7 | APA2MGPC | DPST | N.O. Momentary | — | (1-3, 4-6) |
| 1437567-9 | APA2RGPC | DPDT | Momentary | 2-3, 5-6 | (2-1, 5-4) |

Note: No center terminals on "L" or "M" action switches.

Pushbutton Switches, .120 Actuator, Right Angle

SPST/SPDT

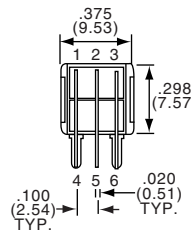
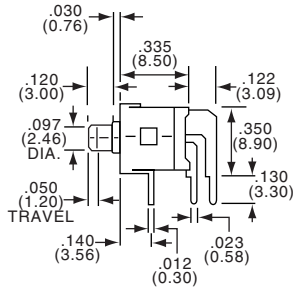
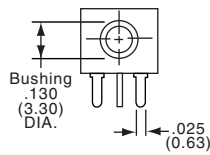
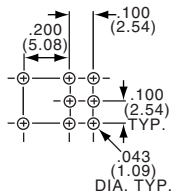


APA1FGRA

| Part Number | | | | | |
|------------------|------------|------|----------------|-----|-------|
| Tyco Electronics | Alcoswitch | Type | Action | | |
| — | APA1BGRA | SPST | N.C. Momentary | 1-3 | (—) |
| 1437567-4 | APA1CGRA | SPST | N.O. Momentary | — | (1-3) |
| 1437567-6 | APA1FGRA | SPDT | Momentary | 2-3 | (2-1) |

Note: No center terminals on "B" or "C" action switches.

DPST/DPDT



APA2RGRA

| Part Number | | | | | |
|------------------|------------|------|----------------|----------|------------|
| Tyco Electronics | Alcoswitch | Type | Action | | |
| 1437567-8 | APA2MGRA | DPST | N.O. Momentary | — | (1-3, 4-6) |
| 1-1437567-0 | APA2RGRA | DPDT | Momentary | 2-3, 5-6 | (2-1, 5-4) |

Note: No center terminals on "M" action switches.

Pushbutton Switches, .157 Actuator, Vertical or Right Angle

MATERIAL SPECIFICATIONS:

ContactsGold plate
 Case MaterialPolyester
 Actuator MaterialPolyester, black
 Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
 Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

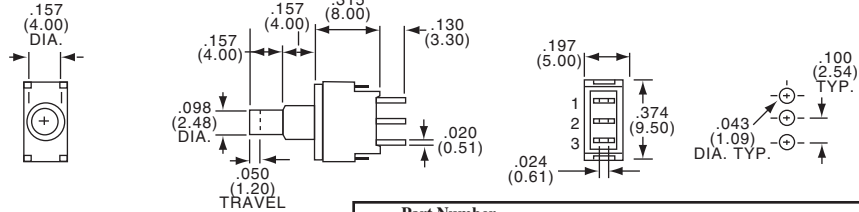
Contact Rating0.4 VA Max. @ 20 VDC or peak AC
 Initial Contact Resistance50 Milliohms max.
 Contact TimingBreak-before-make
 Insulation Resistance1,000 Megohms @ 500 VDC min.
 Dielectric Strength500 Volts RMS @ sea level
 Actuator Travel.....0.050" (1.27)
 Life ExpectancyUp to 10,000 Cycles

FOR SEALED VERSIONS SEE PAGES D19 AND D20

SPST/SPDT



APB1BGPC



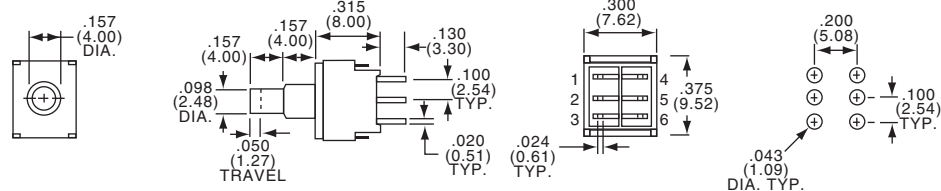
| Part Number | | Type | Action | | |
|------------------|------------|------|----------------|-----|-------|
| Tyco Electronics | Alcoswitch | | | | |
| 1-1437567-1 | APB1BGPC | SPST | N.C. Momentary | 1-3 | (—) |
| 1-1437567-2 | APB1CGPC | SPST | N.O. Momentary | — | (1-3) |
| 1-1437567-4 | APB1FGPC | SPDT | Momentary | 2-3 | (2-1) |

Note: No center terminal on "B" and "C" action switches.

DPST/DPDT



APB2RGPC



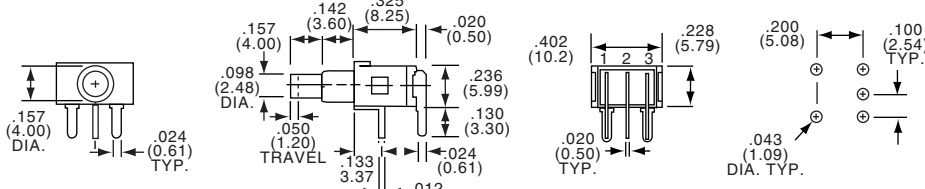
| Part Number | | Type | Action | | |
|------------------|------------|------|----------------|----------|------------|
| Tyco Electronics | Alcoswitch | | | | |
| — | APB2LGPC | DPST | N.C. Momentary | 1-3, 4-6 | (—) |
| 1-1437567-7 | APB2RGPC | DPDT | Momentary | 2-3, 5-6 | (2-1, 5-4) |

Note: No center terminal on "L" action switches.

SPST/SPDT



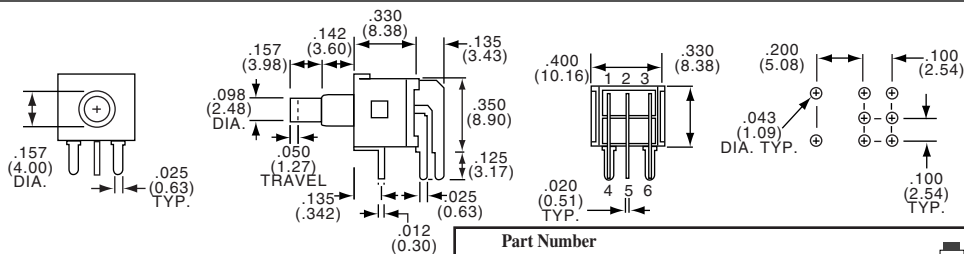
APB1FGRA



| Part Number | | Type | Action | | |
|------------------|------------|------|----------------|-----|-------|
| Tyco Electronics | Alcoswitch | | | | |
| — | APB1BGRA | SPST | N.C. Momentary | 1-3 | (—) |
| 1-1437567-3 | APB1CGRA | SPST | N.O. Momentary | — | (1-3) |
| 1-1437567-5 | APB1FGRA | SPDT | Momentary | 2-3 | (2-1) |

Note: No center terminal on "B" and "C" action switches.

DPST/DPDT



| Part Number | | Type | Action | | |
|------------------|------------|------|----------------|----------|------------|
| Tyco Electronics | Alcoswitch | | | | |
| 1-1437567-6 | APB2MGRA | DPST | N.O. Momentary | — | (1-3, 4-6) |
| | APB2RGRA | DPDT | Momentary | 2-3, 5-6 | (2-1, 5-4) |

Note: No center terminal on "M" action switches.

D
APB Series

Pushbutton Switches, Process Sealed, .157 Actuator, Straight, Retention Terminal

MATERIAL SPECIFICATIONS:

ContactsGold plated
 Case MaterialPolyester
 Actuator MaterialPolyester, black
 Terminals/Fixed Contacts.....Copper alloy
 Terminal SealEpoxy

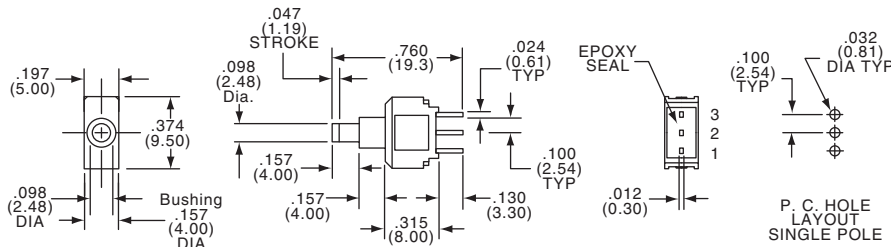
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA Max. @ 20 VDC or peak AC
 Initial Contact Resistance50 Milliohms max.
 Insulation Resistance500 Megohms @ 250 VDC min.
 Dielectric Strength500 Volts RMS @ sea level
 Actuator Travel.....0.047" (1.19)
 Life ExpectancyUp to 10,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
 Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

SPDT

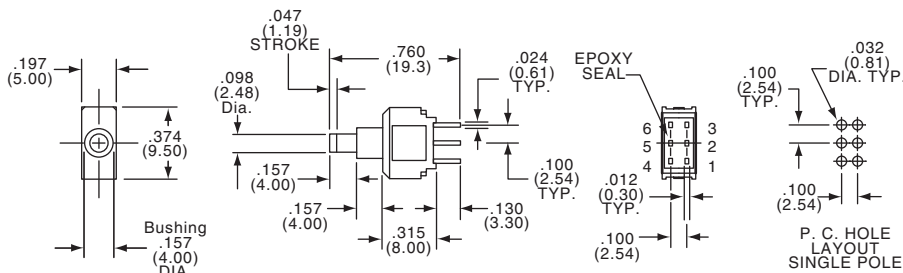


APBE1FGPC

| Part Number | | | | | |
|------------------------------------|------------|------|-----|-------|--------------|
| Tyco Electronics | Alcoswitch | Type | | | Contact Type |
| 1-1437567-8 | APBE1FGPC | SPDT | On | (On) | Gold |
| Terminals Connected: | | | 2-3 | (2-1) | |
| (On) indicates momentary position. | | | | | |

DPDT

Extra compact double pole saves PCB real estate.



APBE2RGPC

| Part Number | | | | | |
|------------------------------------|------------|------|-----------|-------------|--------------|
| Tyco Electronics | Alcoswitch | Type | | | Contact Type |
| 2-1437567-0 | APBE2RGPC | DPDT | On | (On) | Gold |
| Terminals Connected: | | | 2-3 & 5-6 | (2-1 & 5-4) | |
| (On) indicates momentary position. | | | | | |

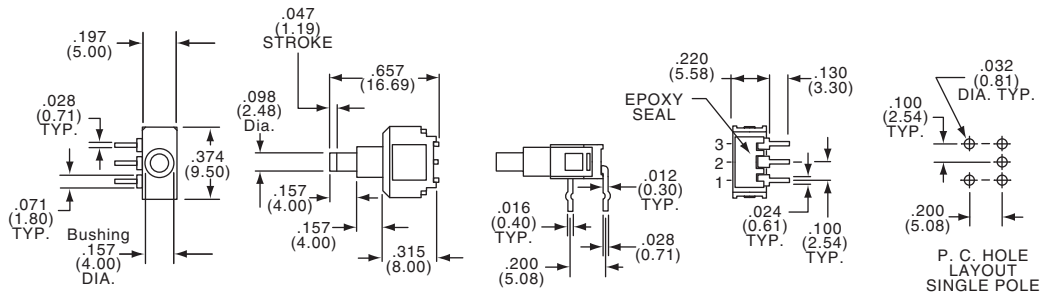
Pushbutton Switches, Process Sealed, .157 Actuator, Retention Terminal, Right Angle

SEE PAGE D19 FOR PRODUCT SPECIFICATIONS.

SPDT



APBE1FGRA



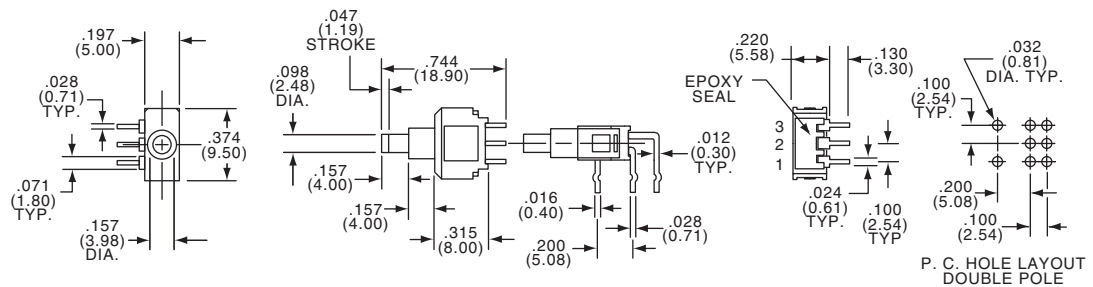
| Part Number | | | | | |
|------------------------------------|------------|------|-----|-------|--------------|
| Tyco Electronics | Alcoswitch | Type | | | Contact Type |
| 1-1437567-9 | APBE1FGRA | SPDT | On | (On) | Gold |
| Terminals Connected: | | | 2-3 | (2-1) | |
| (On) indicates momentary position. | | | | | |

DPDT

Extra compact double pole saves PCB real estate.



APBE2RGRA



| Part Number | | | | | |
|------------------------------------|------------|------|-----------|-------------|--------------|
| Tyco Electronics | Alcoswitch | Type | | | Contact Type |
| 2-1437567-1 | APBE2RGRA | DPDT | On | (On) | Gold |
| Terminals Connected: | | | 2-3 & 5-6 | (2-1 & 5-4) | |
| (On) indicates momentary position. | | | | | |

Pushbutton Switches, Sub-Miniature, Panel Mount

MPA3 Series

MATERIAL SPECIFICATIONS:

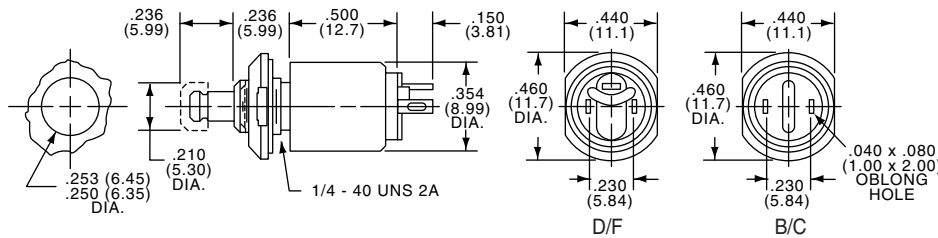
ContactsSilver clad
 Case MaterialThermoset
 Actuator MaterialPolyamide
 TerminalsSilver plate

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +158°F (-20°C to +70°C)
 Storage Temperature.....-40°F to +176°F (-40°C to +80°C)
 Solder Heat ResistanceSee page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating3 A @ 125 VAC
 Initial Contact Resistance20 Milliohms max.
 Contact TimingBreak-before-make
 Insulation Resistance1,000 Megohms min.
 Dielectric Strength1,000 Volts RMS @ sea level
 Actuation Force10 oz. SPST, 16 oz. SPDT average
 Actuator Travel.....100" (2.54)
 Life ExpectancyUp to 10,000 Cycles
 Note: Hardware included with switches



SPST/SPDT



MPA103C

| Part Number | | | | | |
|------------------|------------|------|-----------------|-----------------------------|----------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | Action | Contact Rating |
| 2-1437567-4 | MPA103B | SPST | 14 | N. C. Momentary | 3 Amps |
| 2-1437567-5 | MPA103C | SPST | 13 | N. O. Momentary | 3 Amps |
| 2-1437567-6 | MPA103D | SPDT | 16 | Push on/push off- (tactile) | 3 Amps |
| 2-1437567-7 | MPA103F | SPDT | 15 | Momentary - (tactile) | 3 Amps |

Black Cap supplied. Other colors available, order separately.
 (See Cap C5 and C8 on Page D32.)

MPB Series

Pushbutton Switches, Miniature, Over-Travel

MATERIAL SPECIFICATIONS:

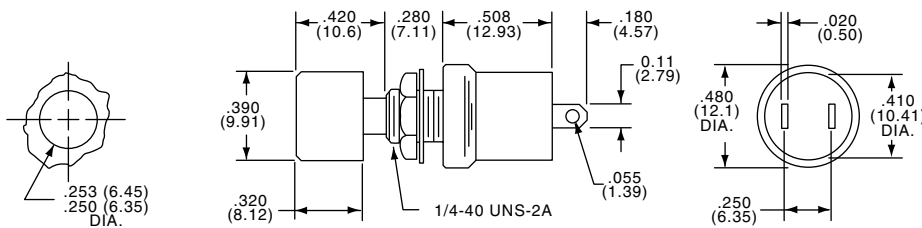
ContactsSilver plate
 Case MaterialThermoset
 Actuator MaterialPolyamide
 TerminalsSilver plate

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +140°F (-10°C to +60°C)
 Storage Temperature.....+5°F to +158°F (-15°C to +70°C)
 Solder Heat ResistanceSee page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating3 A @ 125 VAC
 Initial Contact Resistance20 Milliohms max.
 Insulation Resistance1,000 Megohms min.
 Dielectric Strength1,000 Volts RMS @ sea level
 Actuator Travel.....100" (2.54) Overtravel .059" (1.5mm)
 Life Expectancy20,000 Cycles
 Note: Hardware included with switches



SPST



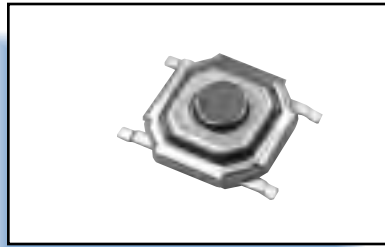
MPB103B

| Part Number | | | | | |
|------------------|------------|------|-----------------|----------------|----------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | Action | Actuator Color |
| 3-1437567-9 | MPB103B | SPST | 14 | N.C. Momentary | Black |
| 4-1437567-0 | MPB103C | SPST | 13 | N.O. Momentary | Red |

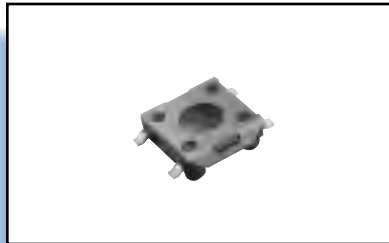
MPA3 and MPB Series



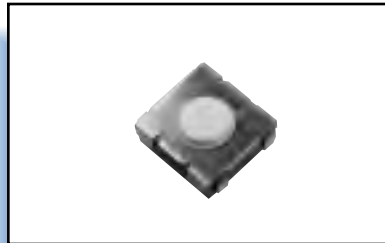
FSM Series - Page E3



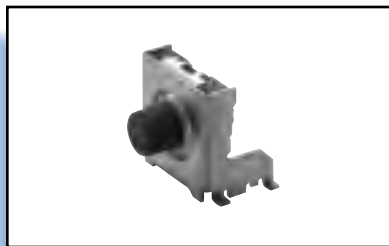
4.9mm Series - Page E11



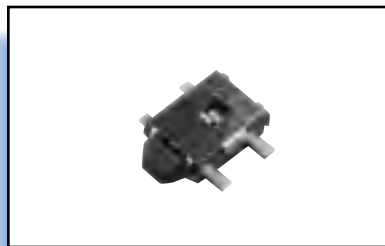
Low Profile Series - Page E12



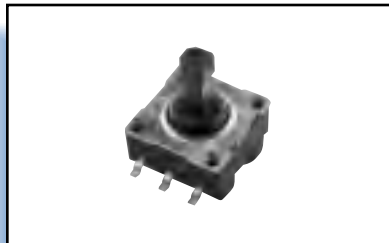
High Life Tactile - Page E12



Sealed Series - Page E27



Side Actuated - Page E29



Multi-Directional Actuation - Page E30

Tactile

E

Tactile Switches

Tactile Switches Part Number Index

FSME3
 FSM100E16
 FSM100AE16
 FSM101E16
 FSM102E17
 FSM102AE17
 FSM103E17
 FSM104E17
 FSM10JE5
 FSM10JAE5
 FSM10JAAE5
 FSM10JLE5
 FSM11JE5
 FSM11JAE5
 FSM11JAAE5
 FSM11JLE5
 FSM12JE5
 FSM12JAE5
 FSM12JAAE5
 FSM12JLE5
 FSM13JE5
 FSM13JAE5
 FSM13JAAE5
 FSM13JLE5
 FSM14JE5
 FSM14JAE5
 FSM14JAAE5
 FSM14JLE5
 FSM14JRTE6
 FSM15JE5
 FSM15JAE5
 FSM15JAAE5
 FSM15JLE5
 FSM16JE5
 FSM16JAE5
 FSM16JAAE5
 FSM16JLE5
 FSM17JE5
 FSM17JAE5
 FSM17JAAE5
 FSM17JLE5
 FSM18JE5
 FSM18JAE5
 FSM18JAAE5
 FSM18JLE5
 FSM1JE4,E5
 FSM1JAE5
 FSM1JAAE5
 FSM1JLE5
 FSM1LPE15
 FSM1LPAE15
 FSM1LPATRE15
 FSM1LPTRE15
 FSM201AE16
 FSM2JE4,E5
 FSM2JAE5
 FSM2JAAE5
 FSM2JARTE6
 FSM2JLE5
 FSM2JRTE6
 FSM2JSMAE10
 FSM2JSMAAE10
 FSM2JSMAATRE10
 FSM2JSMATRE10
 FSM3JE5
 FSM3JAE5
 FSM3JAAE5
 FSM3JLE5
 FSM4JE5

FSM4JAE5
 FSM4JAAE5
 FSM4JARTE6
 FSM4JLE5
 FSM4JRTE6
 FSM4JSMAE10
 FSM4JSMAAE10
 FSM4JSMAATRE10
 FSM4JSMATRE10
 FSM4LPE15
 FSM4LPTRE15
 FSM5JE5
 FSM5JAE5
 FSM5JAAE5
 FSM5JLE5
 FSM6JE5
 FSM6JAE5
 FSM6JAAE5
 FSM6JARTE6
 FSM6JLE5
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 FSM7JE5
 FSM7JAE5
 FSM7JAAE5
 FSM7JLE5
 FSM8JE5
 FSM8JAE5
 FSM8JAAE5
 FSM8JARTE6
 FSM8JLE5
 FSM8JRTE6
 FSM8JSMAE10
 FSM8JSMATRE10
 FSM9JE5
 FSM9JAE5
 FSM9JAAE5
 FSM9JLE5
 FSMCE3
 FSMCDE8
 FSMCDAE8
 FSMCTATRE11
 FSMCTTRE11
 FSMJM3.5ATRE9
 FSMJM4.3E9
 FSMJM4.3ATRE9
 FSMJM4.3TRE9
 FSMJM5.0ATRE9
 FSMRA 1JE7
 FSMRA 1JLE7
 FSMRA 2JE7
 FSMRA 2JAE7
 FSMRA 2JHE7
 FSMRA 2JLE7
 FSMRA 3JE7
 FSMRA 3JLE7
 FSMRA 4JE7
 FSMRA 4JAE7
 FSMRA 4JLE7
 FSMRA 5JE7
 FSMRA 5JLE7
 FSMRA 6JE7
 FSMRA 6JLE7
 FSMRA 7JE7
 FSMRA 7JLE7
 FSMRA 8JE7

FSMRA 8JLE7
 FSMRACDE8
 FSMRACDAE8
 FSMMSME9
 FSMMSMTRE9
 1571217E18
 1571218E19
 1571219E20
 1571220E21
 1571262E29
 1571294E22
 1571295E24
 1571296E23
 1571297E26
 1571298E25
 1571300E27
 1571407E28
 1571514E30
 1571515E30
 1571625E12
 1571626E13
 1571636E14

E
Tactile Switches

Tactile Switches, .138 [3.5] x .236 [6], Through Hole

MATERIAL SPECIFICATIONS:

ContactsStainless/Silver clad plate
 Case MaterialNylon
 Actuator MaterialPBT
 Terminals/Fixed Contacts.....Copper alloy, Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 500 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuation Force130±50 Grams
 Actuator Travel......010"(.254)
 Life ExpectancyUp to 20,000 Cycles

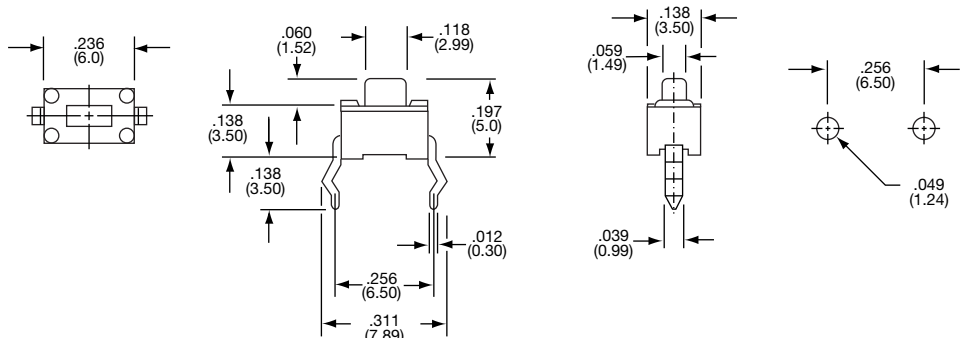
ENVIRONMENTAL SPECIFICATIONS:



Operating Temperature.....-40°F to +185°F (-40°C to + 85°C)
 Storage Temperature.....-40°F to +185°F (-40°C to + 85°C)
 Solder Heat ResistanceSee Page M3-4

3.5 x 6mm



FSM

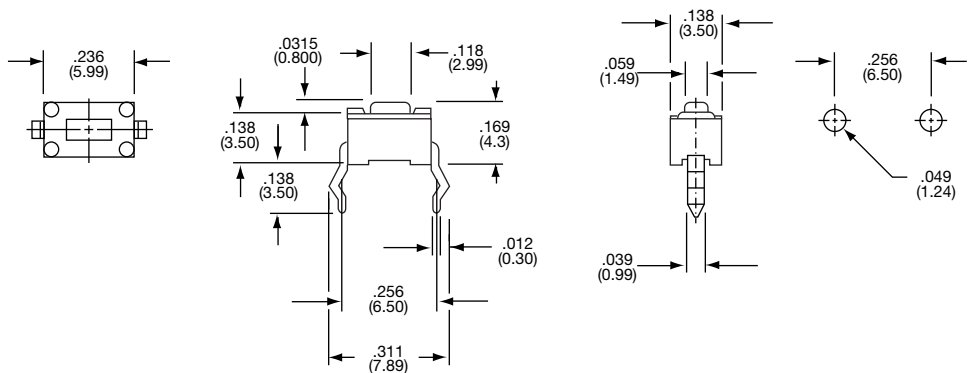




| Tyco Electronics | Alcoswitch | Type |  |  |
|------------------|------------|------|---|---|
| 1437565-1 | FSM | SPST | Off | (On) (On) indicates momentary position. |

3.5 x 6mm



FSMC



| Tyco Electronics | Alcoswitch | Type |  |  |
|------------------|------------|------|---|---|
| 7-1437565-6 | FSMC | SPST | Off | (On) (On) indicates momentary position. |

Tactile Switches, .236 [6] x .236 [6], Through Hole

MATERIAL SPECIFICATIONS:

ContactsCopper alloy, silver plate
 Case.....Polyamide
 Actuator ButtonPolyacetal Resin
 FrameSteel, tin plate
 TerminalsCopper alloy, silver plate

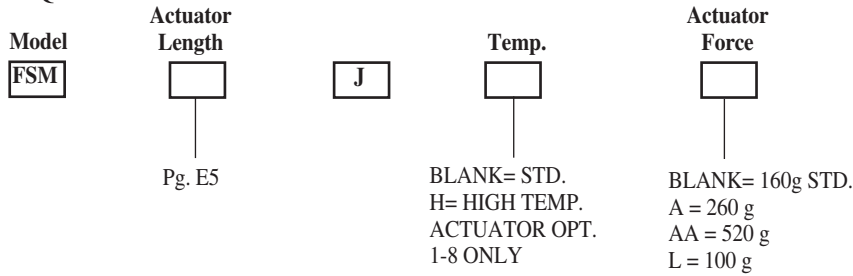
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC
 Actuation ForceSee page E5
 Actuator Travel......012" (0,3)
 Electrostatic Discharge
 w/ESD Ground Terminal5Kv w/no discharge
 Life ExpectancyUp to 100,000 Cycles

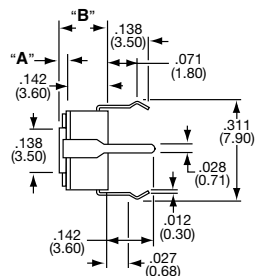
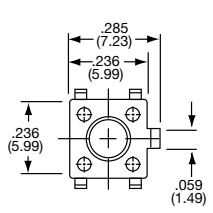
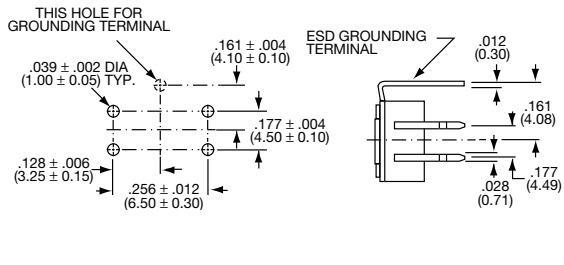
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-40°F to +221°F (-40°C to +105°C)
 Storage Temperature.....-40°F to +221°F (-40°C to +105°C)
 Solder Heat ResistanceSee Page M3-4

PART NUMBERING SEQUENCE



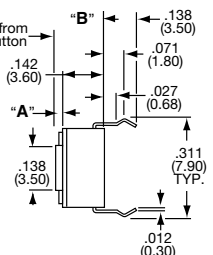
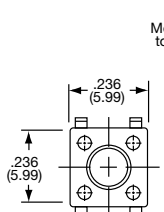
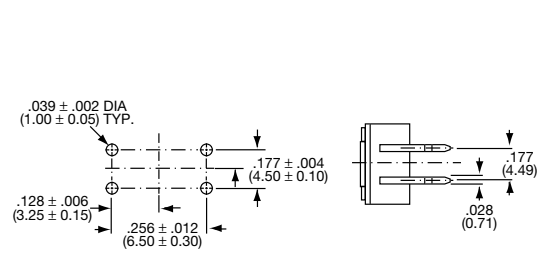
E
FSMJ Series



6 x 6 mm



FSMJ WITH ESD TERMINAL



6 x 6 mm



FSM2J WITHOUT ESD TERMINAL

Tactile Switches, .236 [6] x .236 [6], Through Hole (Continued)

| TYCO Electronics Part Number | ALCO Part Number | DIMENSIONS | | Actuation Force | Actuator Material | Life Cycles |
|---------------------------------|---------------------|---------------|---------------|--------------------|----------------------|----------------|
| | | A | B | | | |
| With Ground Terminal | | | | | | |
| 1-1437565-5 | FSM1J | 0.028 (0.70) | 0.169 (4.30) | 160±50gf | PBT | 100,000 |
| — | FSM1JAA | 0.028 (0.70) | 0.169 (4.30) | 260±50gf | PBT | 100,000 |
| — | FSM1JAA | 0.028 (0.70) | 0.169 (4.30) | 520±100gf | PBT | 100,000 |
| — | FSM1JL | 0.028 (0.70) | 0.169 (4.30) | 100±50gf | PBT | 100,000 |
| 3-1437565-3 | FSM3J | 0.055 (1.40) | 0.196 (5.00) | 160±50gf | PBT | 100,000 |
| — | FSM3JA | 0.055 (1.40) | 0.196 (5.00) | 260±50gf | PBT | 100,000 |
| — | FSM3JAA | 0.055 (1.40) | 0.196 (5.00) | 520±100gf | PBT | 100,000 |
| — | FSM3JL | 0.055 (1.40) | 0.196 (5.00) | 100±50gf | PBT | 100,000 |
| 4-1437565-4 | FSM5J | 0.134 (3.40) | 0.276 (7.00) | 160±50gf | ACETAL | 100,000 |
| — | FSM5JA | 0.134 (3.40) | 0.276 (7.00) | 260±50gf | ACETAL | 100,000 |
| — | FSM5JAA | 0.134 (3.40) | 0.276 (7.00) | 520±100gf | ACETAL | 100,000 |
| — | FSM5JL | 0.134 (3.40) | 0.276 (7.00) | 100±50gf | ACETAL | 100,000 |
| 5-1437565-1 | FSM7J | 0.232 (5.90) | 0.374 (9.50) | 160±50gf | PBT | 100,000 |
| — | FSM7JA | 0.232 (5.90) | 0.374 (9.50) | 260±50gf | PBT | 100,000 |
| — | FSM7JAA | 0.232 (5.90) | 0.374 (9.50) | 520±100gf | PBT | 100,000 |
| — | FSM7JL | 0.232 (5.90) | 0.374 (9.50) | 100±50gf | PBT | 100,000 |
| 7-1437565-5 | FSM9J | 0.146 (3.70) | 0.287 (7.30) | 160±50gf | ACETAL | 100,000 |
| — | FSM9JA | 0.146 (3.70) | 0.287 (7.30) | 260±50gf | ACETAL | 100,000 |
| — | FSM9JAA | 0.146 (3.70) | 0.287 (7.30) | 520±100gf | ACETAL | 100,000 |
| — | FSM9JL | 0.146 (3.70) | 0.287 (7.30) | 100±50gf | ACETAL | 100,000 |
| 1437565-8 | FSM11J | 0.173 (4.40) | 0.315 (8.00) | 160±50gf | ACETAL | 100,000 |
| — | FSM11JA | 0.173 (4.40) | 0.315 (8.00) | 260±50gf | ACETAL | 100,000 |
| — | FSM11JAA | 0.173 (4.40) | 0.315 (8.00) | 520±100gf | ACETAL | 100,000 |
| — | FSM11JL | 0.173 (4.40) | 0.315 (8.00) | 100±50gf | ACETAL | 100,000 |
| 1-1437565-0 | FSM13J | 0.370 (9.40) | 0.512 (13.00) | 160±50gf | ACETAL | 100,000 |
| 1-1437565-1 | FSM13JA | 0.370 (9.40) | 0.512 (13.00) | 260±50gf | ACETAL | 100,000 |
| — | FSM13JAA | 0.370 (9.40) | 0.512 (13.00) | 520±100gf | ACETAL | 100,000 |
| — | FSM13JL | 0.370 (9.40) | 0.512 (13.00) | 100±50gf | ACETAL | 100,000 |
| — | FSM15J | 0.527 (13.40) | 0.669 (17.00) | 160±50gf | ACETAL | 100,000 |
| 147916-1 | FSM15JA | 0.527 (13.40) | 0.669 (17.00) | 260±50gf | ACETAL | 100,000 |
| — | FSM15JAA | 0.527 (13.40) | 0.669 (17.00) | 520±100gf | ACETAL | 100,000 |
| — | FSM15JL | 0.527 (13.40) | 0.669 (17.00) | 100±50gf | ACETAL | 100,000 |
| — | FSM17J | 0.193 (4.90) | 0.335 (8.51) | 160±50gf | ACETAL | 100,000 |
| — | FSM17JA | 0.193 (4.90) | 0.335 (8.51) | 260±50gf | ACETAL | 100,000 |
| — | FSM17JAA | 0.193 (4.90) | 0.335 (8.51) | 520±100gf | ACETAL | 100,000 |
| — | FSM17JL | 0.193 (4.90) | 0.335 (8.51) | 100±50gf | ACETAL | 100,000 |
| Without Ground Terminal | | | | | | |
| 2-1437565-0 | FSM2J | 0.028 (0.70) | 0.169 (4.30) | 160±50gf | PBT | 100,000 |
| 2-1437565-1 | FSM2JA | 0.028 (0.70) | 0.169 (4.30) | 260±50gf | PBT | 100,000 |
| — | FSM2JAA | 0.028 (0.70) | 0.169 (4.30) | 520±100gf | PBT | 100,000 |
| — | FSM2JL | 0.028 (0.70) | 0.169 (4.30) | 100±50gf | PBT | 100,000 |
| 2-1437565-4 | FSM4J | 0.055 (1.40) | 0.196 (5.00) | 160±50gf | PBT | 100,000 |
| 3-1437565-6 | FSM4JA | 0.055 (1.40) | 0.196 (5.00) | 260±50gf | PBT | 100,000 |
| 3-1437565-7 | FSM4JAA | 0.055 (1.40) | 0.196 (5.00) | 520±100gf | PBT | 100,000 |
| 3-1437565-8 | FSM4JL | 0.055 (1.40) | 0.196 (5.00) | 100±50gf | PBT | 100,000 |
| 4-1437565-5 | FSM6J | 0.134 (3.40) | 0.276 (7.00) | 160±50gf | ACETAL | 100,000 |
| 4-1437565-6 | FSM6JA | 0.134 (3.40) | 0.276 (7.00) | 260±50gf | ACETAL | 100,000 |
| — | FSM6JAA | 0.134 (3.40) | 0.276 (7.00) | 520±100gf | ACETAL | 100,000 |
| — | FSM6JL | 0.134 (3.40) | 0.276 (7.00) | 100±50gf | ACETAL | 100,000 |
| 5-1437565-2 | FSM8J | 0.232 (5.90) | 0.374 (9.50) | 160±50gf | PBT | 100,000 |
| 5-1437565-3 | FSM8JA | 0.232 (5.90) | 0.374 (9.50) | 260±50gf | PBT | 100,000 |
| 5-1437565-4 | FSM8JAA | 0.232 (5.90) | 0.374 (9.50) | 520±100gf | PBT | 100,000 |
| 1571376-1 | FSM8JL | 0.232 (5.90) | 0.374 (9.50) | 100±50gf | PBT | 100,000 |
| 1437565-7 | FSM10J | 0.146 (3.70) | 0.287 (7.30) | 160±50gf | ACETAL | 100,000 |
| — | FSM10JA | 0.146 (3.70) | 0.287 (7.30) | 260±50gf | ACETAL | 100,000 |
| — | FSM10JAA | 0.146 (3.70) | 0.287 (7.30) | 520±100gf | ACETAL | 100,000 |
| — | FSM10JL | 0.146 (3.70) | 0.287 (7.30) | 100±50gf | ACETAL | 100,000 |
| 1437565-9 | FSM12J | 0.173 (4.40) | 0.315 (8.00) | 160±50gf | ACETAL | 100,000 |
| — | FSM12JA | 0.173 (4.40) | 0.315 (8.00) | 260±50gf | ACETAL | 100,000 |
| — | FSM12JAA | 0.173 (4.40) | 0.315 (8.00) | 520±100gf | ACETAL | 100,000 |
| — | FSM12JL | 0.173 (4.40) | 0.315 (8.00) | 100±50gf | ACETAL | 100,000 |
| 1-1437565-2 | FSM14J | 0.370 (9.40) | 0.512 (13.00) | 160±50gf | ACETAL | 100,000 |
| — | FSM14JA | 0.370 (9.40) | 0.512 (13.00) | 260±50gf | ACETAL | 100,000 |
| — | FSM14JAA | 0.370 (9.40) | 0.512 (13.00) | 520±100gf | ACETAL | 100,000 |
| — | FSM14JL | 0.370 (9.40) | 0.512 (13.00) | 100±50gf | ACETAL | 100,000 |
| 1-1437565-3 | FSM16J | 0.527 (13.40) | 0.669 (17.00) | 160±50gf | ACETAL | 100,000 |
| — | FSM16JA | 0.527 (13.40) | 0.669 (17.00) | 260±50gf | ACETAL | 100,000 |
| — | FSM16JAA | 0.527 (13.40) | 0.669 (17.00) | 520±100gf | ACETAL | 100,000 |
| — | FSM16JL | 0.527 (13.40) | 0.669 (17.00) | 100±50gf | ACETAL | 100,000 |
| 1-1437565-4 | FSM18J | 0.193 (4.90) | 0.335 (8.51) | 160±50gf | ACETAL | 100,000 |
| — | FSM18JA | 0.193 (4.90) | 0.335 (8.51) | 260±50gf | ACETAL | 100,000 |
| — | FSM18JAA | 0.193 (4.90) | 0.335 (8.51) | 520±100gf | ACETAL | 100,000 |
| — | FSM18JL | 0.193 (4.90) | 0.335 (8.51) | 100±50gf | ACETAL | 100,000 |



Tactile Switches, .236 [6] x .236 [6], Radial Tape

MATERIAL SPECIFICATIONS:

ContactsCopper alloy, silver clad plate
 Case.....Nylon
 Actuator ButtonPBT
 Cover.....Steel, tin plate
 TerminalsCopper alloy, silver clad plate

TYPICAL PERFORMANCE CHARACTERISTICS:

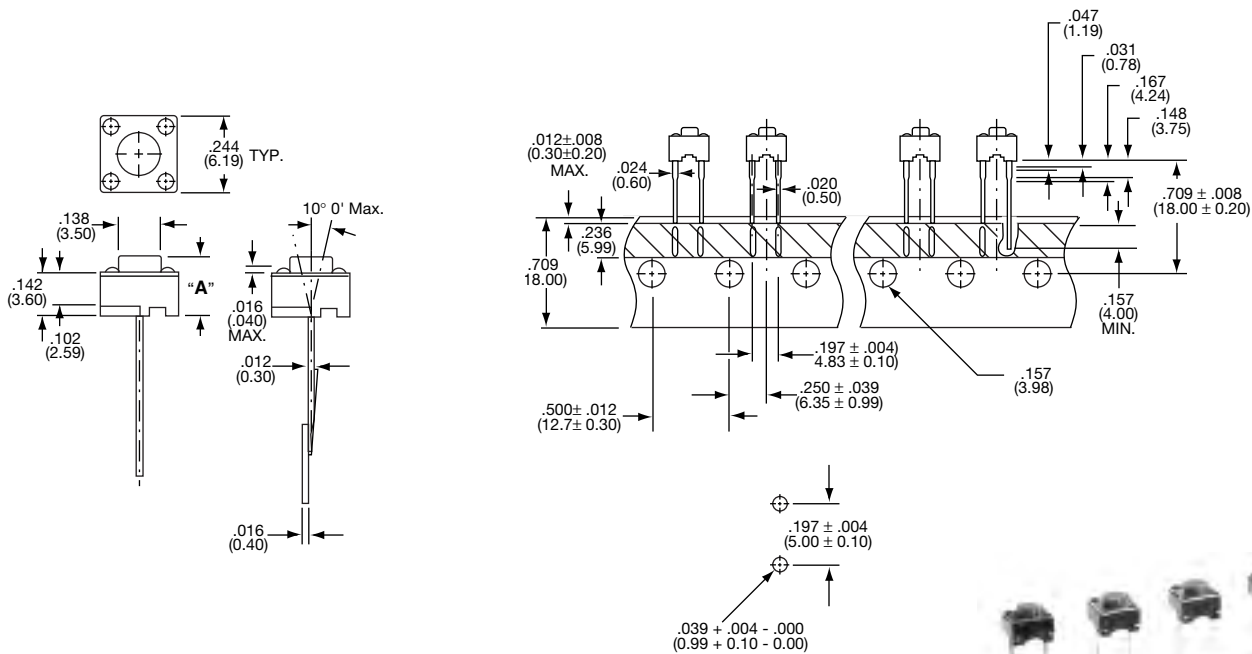
Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuation ForceSee Below
 Actuator Travel......010" (.254)
 Life ExpectancyUp to 100,000 Cycles

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature..... -40°F to +221°F (-40°C to +105°C)
 Storage Temperature.....-40°F to +221°F (-40°C to +105°C)
 Solder Heat ResistanceSee Page M3-4

E

FSMJRT Series



| Tyco Electronics | Alcoswitch | Dimension A | Actuation Force |
|------------------|------------|-------------|-----------------|
| 2-1437565-6 | FSM2JRT | 4.3 (.169) | 160 +/-50 gm |
| 2-1437565-2 | FSM2JART | 4.3 (.169) | 260 +/-75 gm |
| 4-1437565-0 | FSM4JRT | 5.0 (.197) | 160 +/-50 gm |
| 147997-1 | FSM4JART | 5.0 (.197) | 260 +/-75 gm |
| 4-1437565-8 | FSM6JRT | 7.0 (.276) | 160 +/-50 gm |
| 1571402-1 | FSM6JART | 7.0 (.276) | 260 +/-75 gm |
| 147694-1 | FSM8JRT | 9.5 (.374) | 160 +/-50 gm |
| 147871-1 | FSM8JART | 9.5 (.374) | 260 +/-75 gm |
| 1571010-1 | FSM14JRT | 13.0 (.512) | 160 +/-50 gm |

FSM4JRT

Tactile Switches, .236 [6] x .236 [6], Right Angle

MATERIAL SPECIFICATIONS:

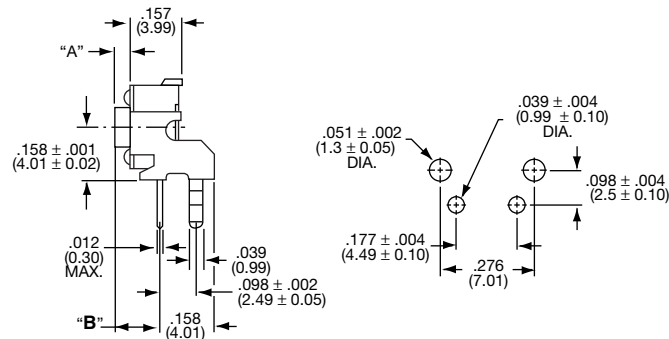
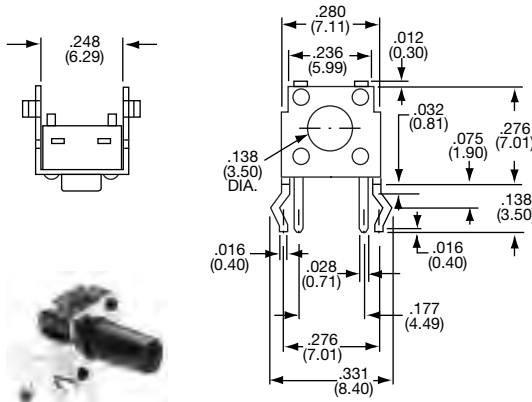
ContactsCopper alloy, silver clad plate
 Case.....PBT
 Actuator ButtonNylon/acetal
 FrameSteel, tin plate
 TerminalsCopper alloy, silver plate

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuation ForceSee Below
 Actuator Travel......012" (0,3)
 Life ExpectancyUp to 100,000 Cycles
 Up to 50,000 Cycles 520 GF (AA option)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
 Solder Heat Resistance.....See Page M3-4



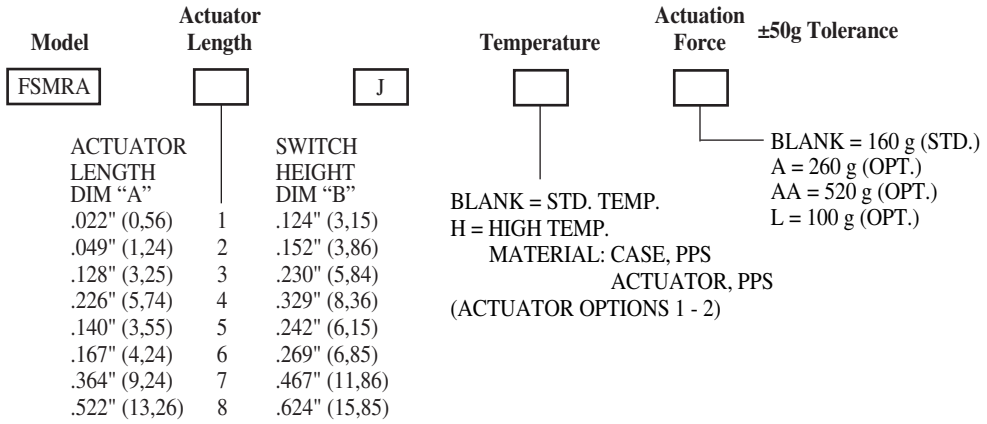
FSMRA7J

| Type | | |
|------|-----|------|
| SPST | Off | (On) |

(On) indicates momentary position.

| Tyco Electronics | Alcoswitch | Dim. A | Dim B |
|------------------|------------|---------------|---------------|
| 8-1437565-4 | FSMRA 1J | .022" (0,55) | .124" (3,15) |
| 1571386-2 | FSMRA 1JL | .022" (0,55) | .124" (3,15) |
| 8-1437565-5 | FSMRA 2J | .049" (1,25) | .152" (3,86) |
| 1571386-1 | FSMRA 2JL | .049" (1,25) | .152" (3,86) |
| 8-1437565-8 | FSMRA 2JA | .049" (1,25) | .152" (3,86) |
| 8-1437565-9 | FSMRA 2JH | .049" (1,25) | .152" (3,86) |
| 9-1437565-0 | FSMRA 3J | .128" (3,25) | .230" (5,84) |
| 1571386-3 | FSMRA 3JL | .128" (3,25) | .230" (5,84) |
| 9-1437565-1 | FSMRA 4J | .226" (5,74) | .329" (8,36) |
| 1571819-1 | FSMRA 4JA | .226" (5,74) | .329" (8,36) |
| 1571386-4 | FSMRA 4JL | .226" (5,74) | .329" (8,36) |
| 9-1437565-2 | FSMRA 5J | .140" (3,55) | .242" (6,15) |
| 1571386-5 | FSMRA 5JL | .140" (3,55) | .242" (6,15) |
| 9-1437565-3 | FSMRA 6J | .167" (4,25) | .269" (6,85) |
| 1571386-6 | FSMRA 6JL | .167" (4,25) | .269" (6,85) |
| 9-1437565-5 | FSMRA 7J | .364" (9,25) | .467" (11,86) |
| 1571386-7 | FSMRA 7JL | .364" (9,25) | .467" (11,86) |
| 1571419-1 | FSMRA 8J | .522" (13,26) | .624" (15,85) |
| 1571386-8 | FSMRA 8JL | .522" (13,26) | .624" (15,85) |

PART NUMBERING SEQUENCE



CONSULT FACTORY FOR OTHER OPTIONS

Tactile Switches, .236 [6] x .236 [6], Square Button, Straight or Right Angle

MATERIAL SPECIFICATIONS:

ContactsCopper alloy, silver clad plate
 Case.....Nylon
 Actuator ButtonPolyacetal Resin
 Cover.....Pet film
 TerminalsCopper alloy, silver plate
 Frame (R/A)Steel, tin plate

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms Max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuation Force100 and 160 ±50 Grams
 Actuator Travel......010"(.254)
 Life ExpectancyUp to 100,000 Cycles

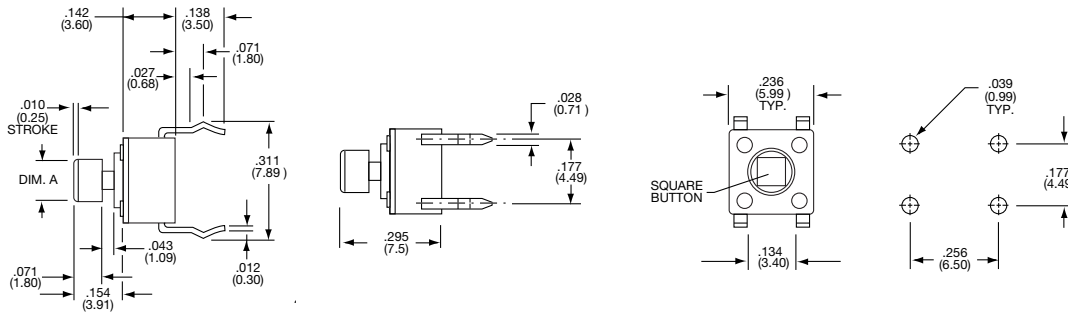
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature..... -4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
 Solder Heat ResistanceSee Page M3-4

6 x 6 mm



FSMCDA



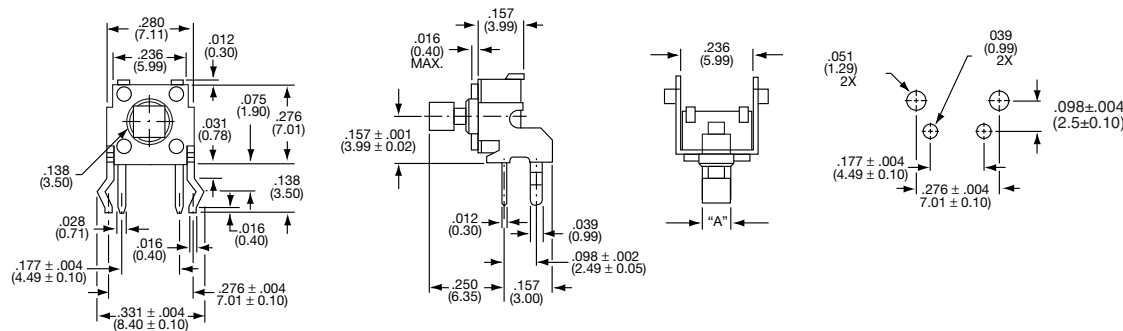
| Tyco Electronics | Alcoswitch | Dim. A | Type | | | Force |
|------------------|------------|-------------|------|-----|------|---------|
| 7-1437565-8 | FSMCD | .095 (2,42) | SPST | Off | (On) | 100±50g |
| 7-1437565-9 | FSMCDA | .110 (2,80) | SPST | Off | (On) | 160±50g |

(On) indicates momentary position.

6 x 6 mm



FSMRACDA



| Tyco Electronics | Alcoswitch | Dim. A | Force |
|------------------|------------|-------------|---------|
| 9-1437565-9 | FSMRACD | .095 (2,42) | 100±50g |
| 1437566-1 | FSMRACDA | .110 (2,80) | 160±50g |

E
FSMCD & FSMRACD Series

Tactile Switches, .138 [3.5] x .236 [6], Surface Mount

MATERIAL SPECIFICATIONS:

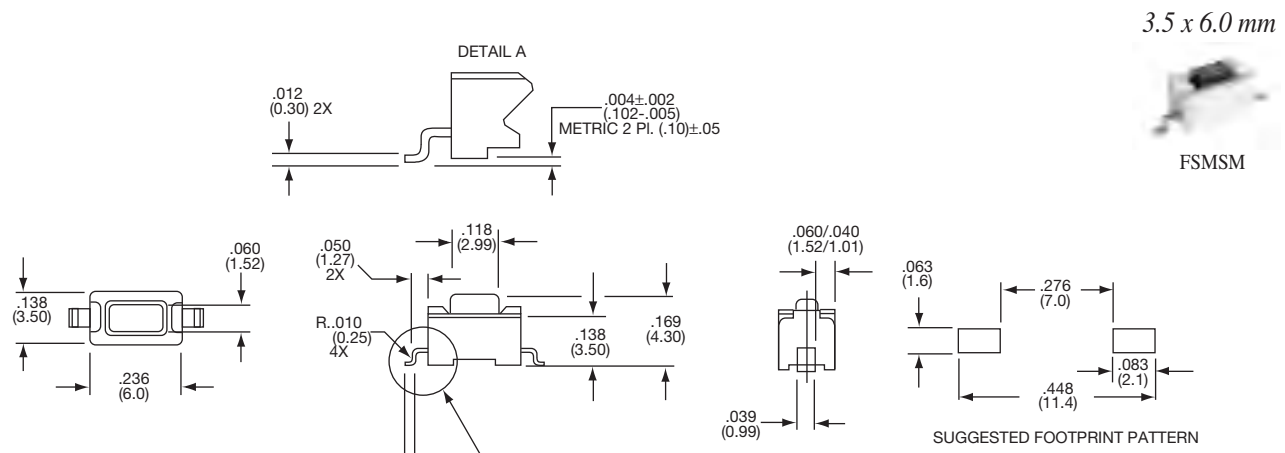
ContactsStainless steel, silver clad plate
 Case MaterialFSMSM: PPS
 Actuator MaterialFSMSM: Nylon
 FSMJM: PPS
 TerminalsCopper alloy, silver plate or tin plate
 Cover.....Stainless steel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 500 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuator Travel......010"(.254)
 Life Expectancy20,000-40,000 Cycles

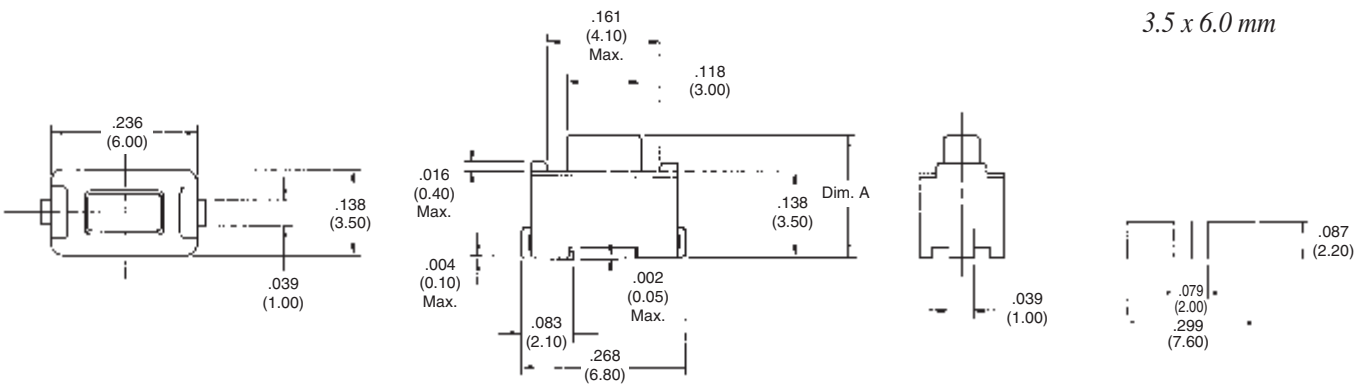
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-40°F to +185°F (-40°C to +85°C)
 Storage Temperature.....-40°F to +185°F (-40°C to +85°C)
 Solder Heat ResistanceFSMSM IR Soldering EIA-364-56,
 Procedure 5 Level 1, 215° C
 FSMJM IR Soldering per EIA 364-56
 Procedure 5, level 2, 464°F (240°C)



| Tyco Electronics | Alcoswitch | Type | Actuation Force | Life Cycle |
|------------------|------------|---------------|-----------------|------------|
| 1437566-3 | FSMSM | SPST Off (On) | 180±50 | 20,000 |
| 1437566-4 | FSMSMTR | | 180±50 | 20,000 |

(On) indicates momentary position.



| Tyco Electronics | Alcoswitch | Type | Dim. A | Actuation Force | Packaging | Life Cycle |
|------------------|-------------|------|-------------|-----------------|-----------|------------|
| 147873-1 | FSMJM5.0ATR | SPST | .197 (5.00) | 180±50 | Reel | 40,000 |
| 147873-2 | FSMJM4.3ATR | SPST | .169 (4.30) | 180±50 | Reel | 40,000 |
| 147873-3 | FSMJM3.5ATR | SPST | .138 (3.50) | 180±50 | Reel | 40,000 |
| 147942-1 | FSMJM4.3 | SPST | .169 (4.30) | 130±50 | Bulk | 40,000 |
| 147942-2 | FSMJM4.3TR | SPST | .169 (4.30) | 130±50 | Reel | 40,000 |

Tactile Switches, .236 [6] x .236 [6], Surface Mount

MATERIAL SPECIFICATIONS:

ContactsCopper alloy, silver plate
 Case.....PPS
 Actuator ButtonPPS
 Cover.....Steel, tin plate
 TerminalsCopper alloy, silver plate

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuation ForceSee Below
 Actuator Travel......010"(.254)
 Life ExpectancyUp to 100,000 Cycles

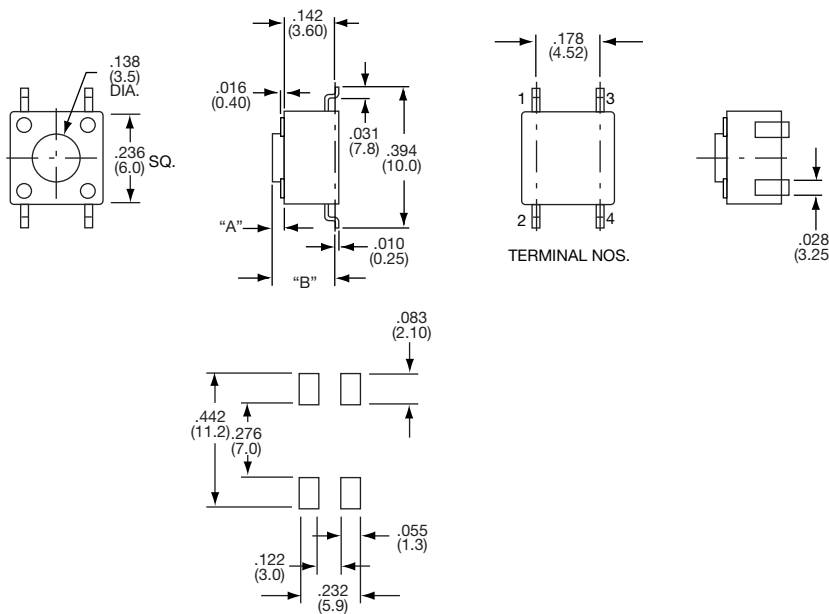
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature..... -4°F to +185°F (-20°C to + 85°C)
 Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
 Solder Heat ResistanceIR Soldering EIA-364-56
 Procedure 5 Level 3, 500°F (260°C)

6 x 6 mm



FSMJ SMA



| Bulk Pack Part Number | | Tape & Reel Part Number | | Actuator Length | Switch Height | Actuation Force |
|-----------------------|------------|-------------------------|--------------|-----------------|---------------|-----------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Dimension A | Dimension B | |
| 2-1437565-7 | FSM2JSMA | 3-1437565-0 | FSM2JSMATR | .028 (0.70) | .169 (4.30) | 160 ± 50 grams |
| 4-1437565-1 | FSM4JSMA | 4-1437565-2 | FSM4JSMATR | .055 (1.40) | .196 (5.00) | 160 ± 50 grams |
| 4-1437565-9 | FSM6JSMA | 5-1437565-0 | FSM6JSMATR | .134 (3.40) | .276 (7.00) | 160 ± 50 grams |
| 2-1437565-8 | FSM2JSMAA | 2-1437565-9 | FSM2JSMATR | .028 (0.70) | .169 (4.30) | 260 ± 50 grams |
| 1571563-1 | FSM4JSMML | 1571563-2 | FSM4JSMMLTR | .055 (1.40) | .196 (5.00) | 100 ± 50 grams |
| 1571563-3 | FSM4JSMMAA | 1571563-4 | FSM4JSMMAATR | .055 (1.40) | .196 (5.00) | 260 ± 50 grams |
| — | FSM6JSMMAA | — | FSM6JSMMAATR | .134 (3.40) | .276 (7.00) | 260 ± 50 grams |
| 3-1437566-8 | FSM8JSMA | — | FSM8JSMATR | .232 (5.90) | .374 (9.50) | 260 ± 50 grams |
| 1571527-1 | FSM2JSML | 1571527-2 | FSM2JSMLTR | .028 (0.70) | .169 (4.30) | 100 ± 50 grams |

E
FSMJ SMA Series

**Low Profile Series FSMCT Tactile Switches, .196 [5.0] x .196 [5.0],
Surface Mount**

MATERIAL SPECIFICATIONS:

CoverNickel Silver
 Stem/ActuatorBrass-"J" Lead
 Brass nickel plate-gullwing

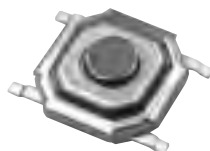
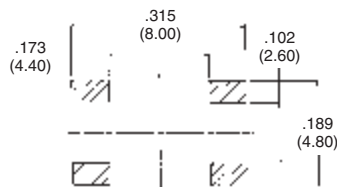
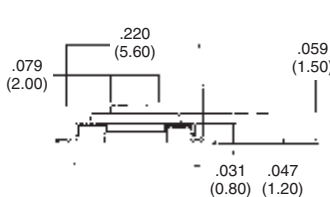
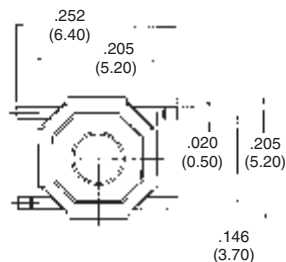
Contacts:
 MovingStainless Steel, Silver Clad-Plate
 Fixed/TerminalCopper Alloy, Silver-Plate
 CaseNylon, UL94V-0

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating20mA @ 15VDC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC for 1 minute
 Actuation Travel0.25 +0.1/-0.2
 Life ExpectancyUp to 500,000 and 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-22 to +185°F (-30 to +85°C)
 Resistance to solder heatPer EIA-364-56A, Procedure 4 & 5,
 Level 3
 SolderabilityPer EIA-364-52, Class 2, Category 1,
 Temp. 473°F (245°C) max., Time 2.5
 seconds max., 95% minimum coverage.



| Tyco Electronics | Alcoswitch | Type | Force | Life Cycle |
|------------------|------------|------|--------|------------|
| 8-1437565-0 | FSMCTTR | SPST | 160±50 | 1,000,000 |
| 8-1437565-1 | FSMCTATR | SPST | 260±50 | 500,000 |

"J" lead option in development. Contact factory for additional information.



Low Profile, 6 x 6 SMT J-Lead, Extended Life

MATERIAL SPECIFICATIONS:

CoverStainless Steel
 Stem/ActuatorNylon UL94V-0
 Contacts:
 MovingStainless Steel, Silver Clad-Plate
 Fixed/TerminalCopper Alloy, Silver-Plate
 CaseThermoplastic, UL94V-0, Black
 TapeTeflon

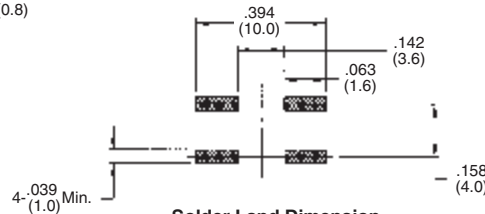
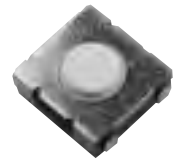
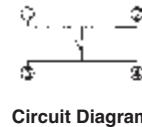
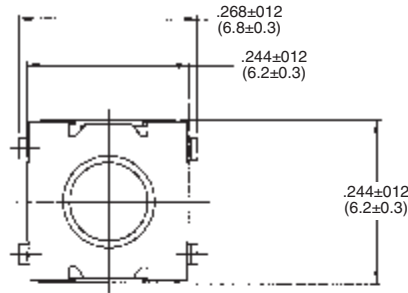
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC for 1 minute
 Actuation Travel.....0.008 +/-0.004 (.2 +/- .10)

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-22 to +185°F (-30 to +85°C)
 Resistance to solder heatPer EIA-364-56A, Procedure 4 & 5, Level 3
 SolderabilityPer EIA-364-52, Class 2, Category 1, Temp 473°F (245°C), 95% minimum coverage.

E
Extended Life Series



| Tyco Electronics | Dim L | Force | Life | Packaging |
|------------------|------------|-------|-----------|-----------|
| 1571625-1 | .098 (2.5) | 50gf | 2,000,000 | Bulk |
| 1571625-2 | .098 (2.5) | 50gf | 2,000,000 | T&R |
| 1571625-3 | .098 (2.5) | 100gf | 1,000,000 | Bulk |
| 1571625-4 | .098 (2.5) | 100gf | 1,000,000 | T&R |
| 1571625-5 | .098 (2.5) | 160gf | 1,000,000 | Bulk |
| 1571625-6 | .098 (2.5) | 160gf | 1,000,000 | T&R |
| 1571625-7 | .098 (2.5) | 260gf | 100,000 | Bulk |
| 1571625-8 | .098 (2.5) | 260gf | 100,000 | T&R |

Low Profile, 6 x 6 SMT, Gull Wing, Extended Life

MATERIAL SPECIFICATIONS:

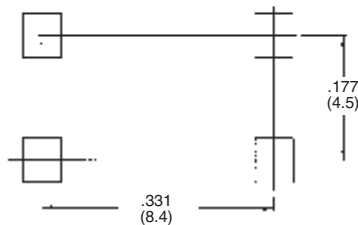
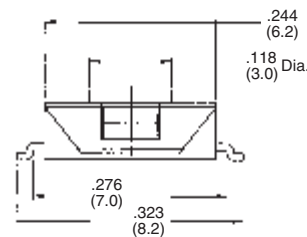
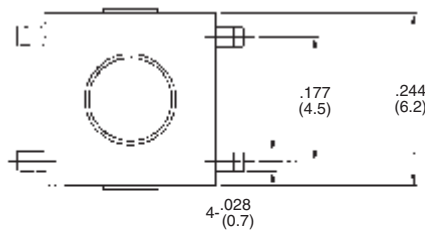
CoverCopper Alloy, Tin Lead Plate
 Stem/ActuatorNylon UL94V-0
 Contacts:
 MovingStainless Steel, Silver Clad-Plate
 Fixed/TerminalCopper Alloy, Silver-Plate
 CaseThermoplastic, UL94V-0, Black
 TapeTeflon

TYPICAL PERFORMANCE CHARACTERISTICS:

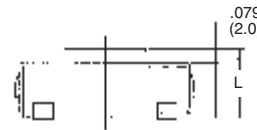
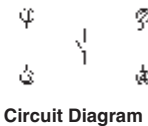
Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC for 1 minute
 Actuation Travel.....0.010 +/-0.004 (.25 +/- .10)

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-22 to +185°F (-30 to +85°C)
 Resistance to solder heatPer EIA-364-56A, Procedure 4 & 5, Level 3
 SolderabilityPer EIA-364-52, Class 2, Category 1, Temp 473°F (245°C) max., time 2.5 seconds max., 95% minimum coverage.



PCB Mounting Solder Land Dimension



| Tyco Electronics | Dim L | Force | Life | Packaging |
|------------------|------------|-------|-----------|-----------|
| 1571626-1 | .098 (2.5) | 50gf | 1,000,000 | Bulk |
| 1571626-2 | .098 (2.5) | 50gf | 1,000,000 | T&R |
| 1571626-3 | .098 (2.5) | 100gf | 1,000,000 | Bulk |
| 1571626-4 | .098 (2.5) | 100gf | 1,000,000 | T&R |
| 1571626-5 | .098 (2.5) | 160gf | 1,000,000 | Bulk |
| 1571626-6 | .098 (2.5) | 160gf | 1,000,000 | T&R |
| 1571626-7 | .079 (2.0) | 160gf | 1,000,000 | Bulk |
| 1571626-8 | .079 (2.0) | 160gf | 1,000,000 | T&R |
| 1571626-9 | .098 (2.5) | 260gf | 100,000 | Bulk |
| 1-1571626-0 | .098 (2.5) | 260gf | 100,000 | T&R |

Low Profile, 6 x 6 SMT, Gull Wing w/ESD Terminal, Extended Life

MATERIAL SPECIFICATIONS:

CoverCopper Alloy, Tin Lead Plate
 Stem/ActuatorNylon UL94V-0
 Contacts:
 MovingStainless Steel, Silver Clad-Plate
 Fixed/TerminalCopper Alloy, Silver-Plate
 CaseThermoplastic, UL94V-0, Black
 TapeTeflon

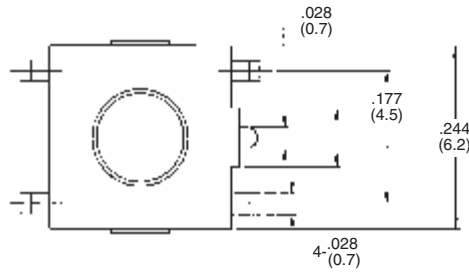
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100Milliohms Max
 Insulation Resistance100Megaohms @ 100V DC Min.
 Dielectric Strength500 VAC for 1 minute
 Actuation Travel.....0.010 +/- .004 (.25 +/- .10)

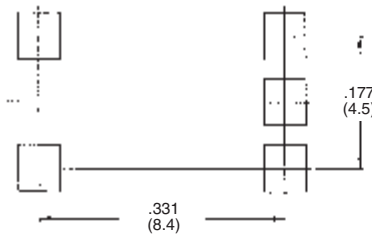
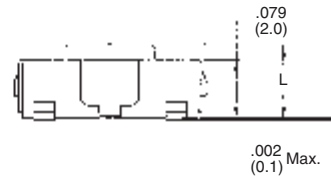
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-22 to +185°F (-30 to +85°C)
 Resistance to solder heatPer EIA-364-56A, Procedure 4 & 5, Level 3
 SolderabilityPer EIA-364-52, Class 2, Category 1, Temp 473°F (245°C) max., time 2.5 seconds max., 95% minimum coverage.

E
Extended Life Series



Circuit Diagram



PCB Mounting Solder Land Dimension

| Tyco Electronics | Dim L | Force | Life | Packaging |
|------------------|------------|-------|-----------|-----------|
| 1571636-1 | .098 (2.5) | 50gf | 1,000,000 | Bulk |
| 1571636-2 | .098 (2.5) | 50gf | 1,000,000 | T&R |
| 1571636-3 | .098 (2.5) | 100gf | 1,000,000 | Bulk |
| 1571636-4 | .098 (2.5) | 100gf | 1,000,000 | T&R |
| 1571636-5 | .098 (2.5) | 160gf | 1,000,000 | Bulk |
| 1571636-6 | .098 (2.5) | 160gf | 1,000,000 | T&R |
| 1571636-7 | .079 (2.0) | 160gf | 1,000,000 | Bulk |
| 1571636-8 | .079 (2.0) | 160gf | 1,000,000 | T&R |
| 1571636-9 | .098 (2.5) | 260gf | 100,000 | Bulk |
| 1-1571636-0 | .098 (2.5) | 260gf | 100,000 | T&R |

Tactile Switches, .236 [6] x .236 [6], Low Profile, Surface Mount

MATERIAL SPECIFICATIONS:

ContactsCopper Alloy, silver clad plated
 Case MaterialPPS
 StemPPS
 Cover.....Steel, tin-plate
 TerminalsCopper alloy, silver plated

TYPICAL PERFORMANCE CHARACTERISTICS:

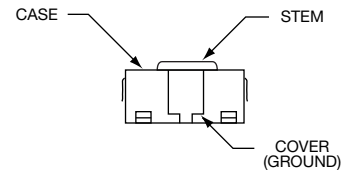
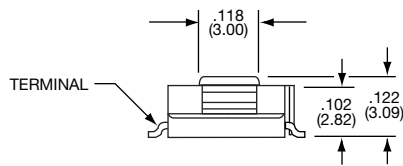
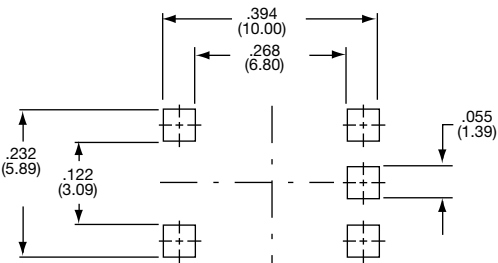
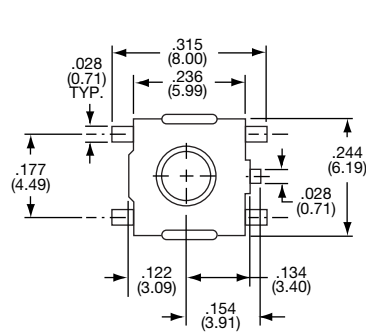
Contact Rating50mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC, 1 minute
 Actuation ForceSee Below.
 Life ExpectancyUp to 100,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

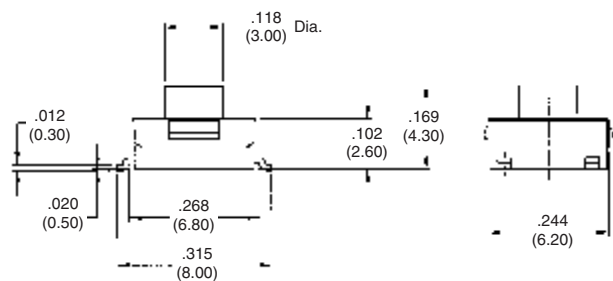
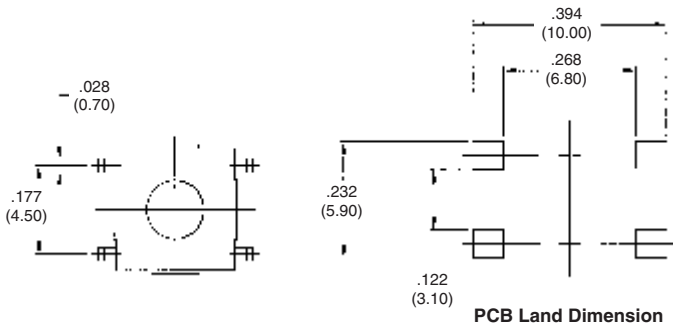
Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
 Solder Heat ResistanceIR Soldering EIA-364-56
 Procedure 5 Level 2, 464°F (240°C)



FSM1LP



FSM4LP



| Tyco Electronics | Alcoswitch | Force | Actuator Packaging |
|------------------|------------|-------|--------------------|
| 1-1437565-6 | FSM1LP | 160 | Bulk |
| 1-1437565-7 | FSM1LPA | 260 | Bulk |
| 1-1437565-9 | FSM1LPTR | 160 | Tape & Reel |
| 1-1437565-8 | FSM1LPATR | 260 | Tape & Reel |
| 1571621-1 | FSM4LP | 260 | Bulk |
| 4-1437565-3 | FSM4LPTR | 260 | Tape & Reel |

E
FSM1LP Series

Tactile Switches, .472 [12] x .472 [12], Flush or Extended Actuators

MATERIAL SPECIFICATIONS:

ContactsCopper alloy, silver clad plate
 Case.....PBT
 Actuator ButtonPolyacetal Resin
 Cover.....PET film
 TerminalsCopper alloy, silver plate
 Frame (R/A)Nylon

TYPICAL PERFORMANCE CHARACTERISTICS:

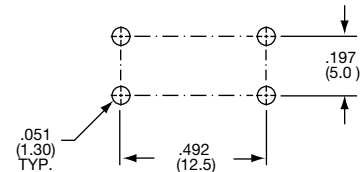
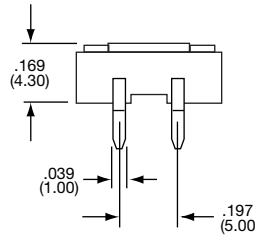
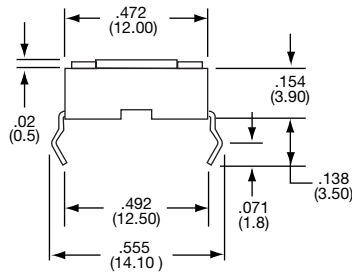
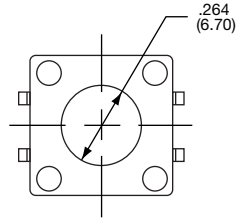
Contact Rating50 mA @ 12 VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohms min. @100 VDC
 Dielectric Strength500 VAC for 1 minute
 Actuation ForceSee below
 Actuator Travel.....0.012"(0.3)
 Life ExpectancyUp to 100,000 cycles

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-22°F to +185°F (-30°C to +85°C)
 Solder Heat ResistanceSee Page M3-4



FSM100

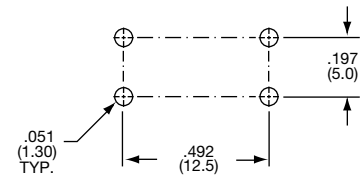
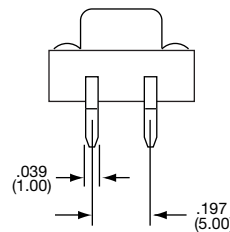
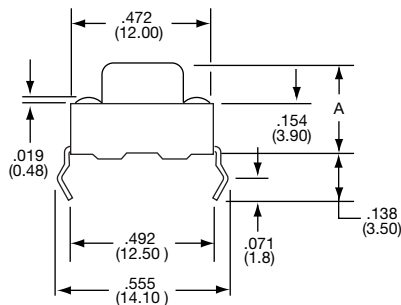
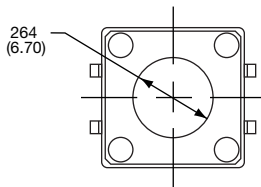


| Tyco Electronics | Alcoswitch | Type | | | Force |
|------------------|------------|------|-----|------|----------|
| 1437565-2 | FSM100 | SPST | Off | (On) | 160±50gf |
| 1571139-1 | FSM100A | SPST | Off | (On) | 260±50gf |

(On) indicates momentary position.



FSM101

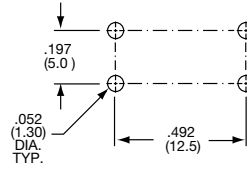
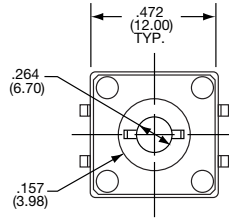
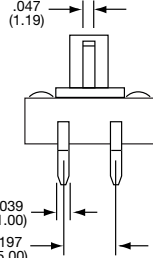
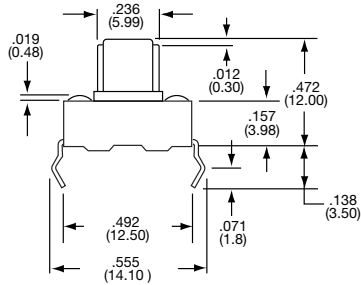


| Tyco Electronics | Alcoswitch | Type | | | Force | Dim A |
|------------------|------------|------|-----|------|----------|--------------|
| 1437565-3 | FSM101 | SPST | Off | (On) | 160±50gf | .295 [7.5mm] |
| 1571140-1 | FSM201A | SPST | Off | (On) | 260±50gf | .335 [8.5mm] |

(On) indicates momentary position.

E
FSM100-104 Series

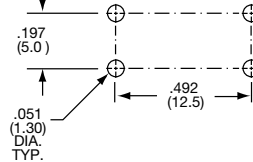
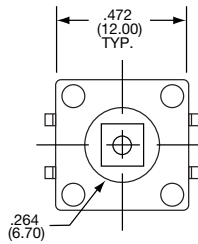
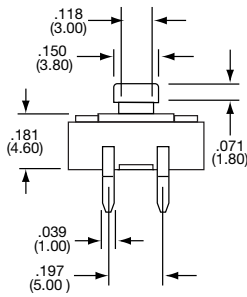
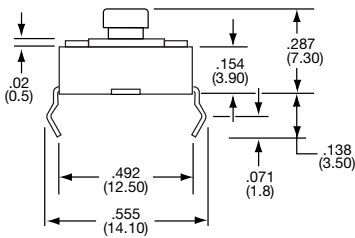
Tactile Switches, .472 [12] x .472 [12], Vertical or Right Angle



FSM102

| Tyco Electronics | Alcoswitch | Type | | | Force |
|------------------|------------|------|-----|------|----------|
| 1437565-4 | FSM102 | SPST | Off | (On) | 160±50gf |
| 1571061-1 | FSM102A | SPST | Off | (On) | 260±50gf |

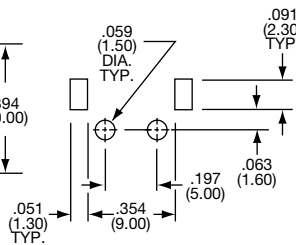
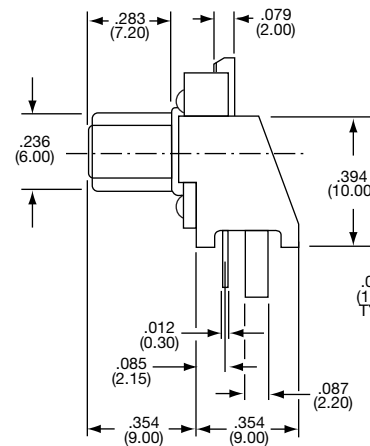
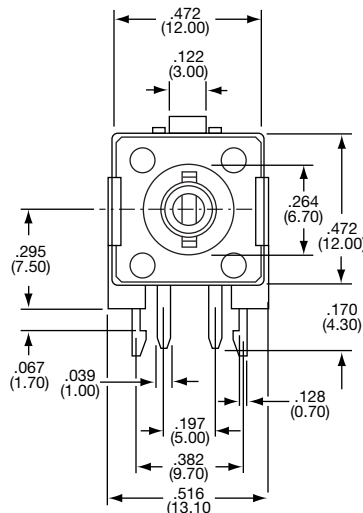
(On) indicates momentary position.



FSM103

| Tyco Electronics | Alcoswitch | Type | | | Force |
|------------------|------------|------|-----|------|----------|
| 1437565-5 | FSM103 | SPST | Off | (On) | 160±50gf |

(On) indicates momentary position.



| Tyco Electronics | Alcoswitch | Type | | | Force |
|------------------|------------|------|-----|------|----------|
| 1437565-6 | FSM104 | SPST | Off | (On) | 160±50gf |

(On) indicates momentary position.

Tactile Switches, Sealed .472 [12] x .472 [12], Surface Mount, Projected Actuator

MATERIAL SPECIFICATIONS:

CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

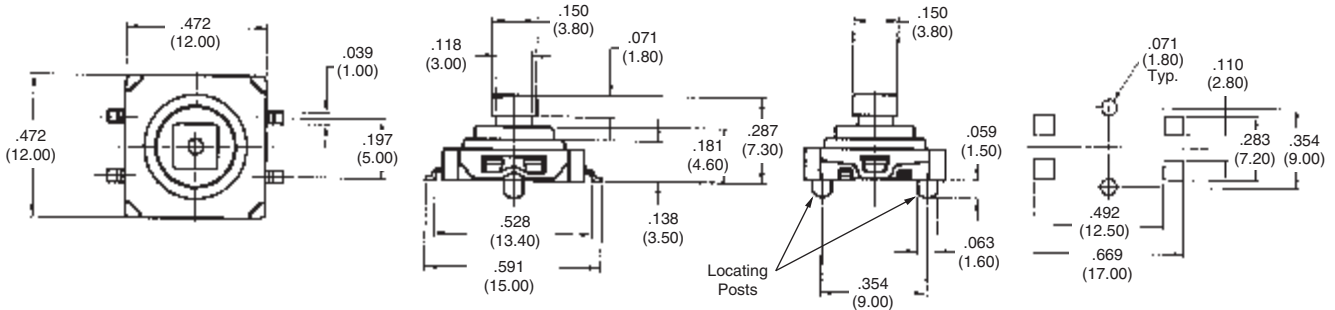
Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +70°C)
 Storage Temperature-4 to +185°F (-20 to +70°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67

E

Sealed Tactile Switches



| Tyco Electronics | Locating Post | Packaging | Actuator Height | Force |
|------------------|---------------|-----------|-----------------|----------|
| 1571217-1 | No | Bulk | .287 (7.30) | 160±70gf |
| 1571217-2 | Yes | Bulk | .287 (7.30) | 160±70gf |
| 1571217-3 | No | T&R | .287 (7.30) | 160±70gf |
| 1571217-4 | Yes | T&R | .287 (7.30) | 160±70gf |

Tactile Switches, Sealed .472 [12] x .472 [12], Surface Mount, Flush, Actuator

MATERIAL SPECIFICATIONS:

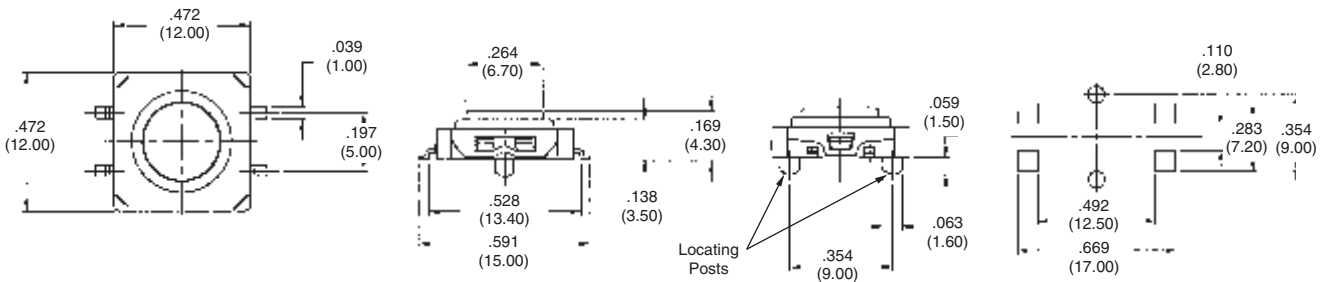
CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/-0.008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



| Tyco Electronics | Locating Post | Packaging | Actuator Height | Force |
|------------------|---------------|-----------|-----------------|----------|
| 1571218-1 | No | Bulk | .169 (4.30) | 160±70gf |
| 1571218-2 | Yes | Bulk | .169 (4.30) | 160±70gf |
| 1571218-3 | No | T&R | .169 (4.30) | 160±70gf |
| 1571218-4 | Yes | T&R | .169 (4.30) | 160±70gf |

E
Sealed Tactile Switches

Tactile Switches, Sealed .472 [12] x .472 [12], Thru-Hole, Projected Actuator

MATERIAL SPECIFICATIONS:

CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

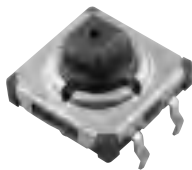
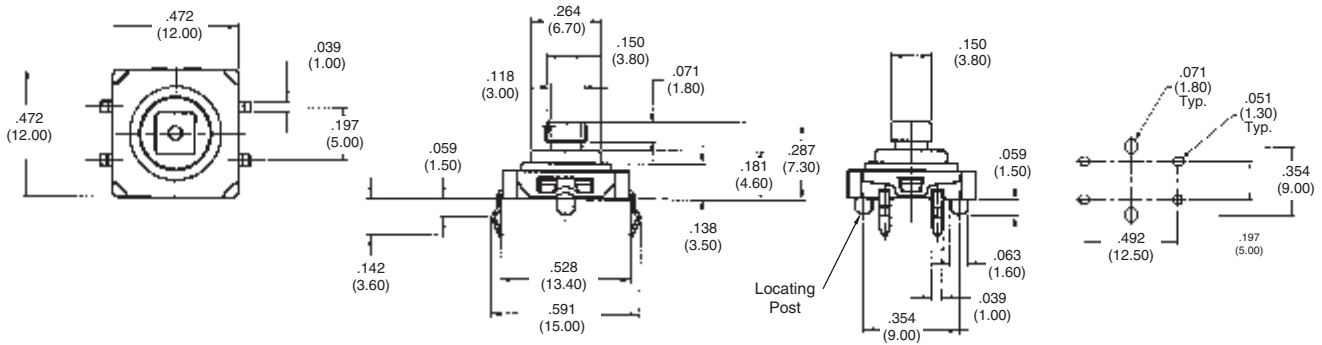
Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 Life1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 3, Test Cond. B
 SolderabilityPer EIA RS-186-9E
 SealPer IP67

E

Sealed Tactile Switches



| Tyco Electronics | Locating Post | Packaging | Actuator Height | Force |
|------------------|---------------|-----------|-----------------|----------|
| 1571219-1 | No | Bulk | .287 (7.30) | 160±70gf |
| 1571219-2 | Yes | Bulk | .287 (7.30) | 160±70gf |

Tactile Switches, Sealed .472 [12] x .472 [12], Thru-Hole, Flush Actuator

MATERIAL SPECIFICATIONS:

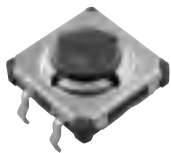
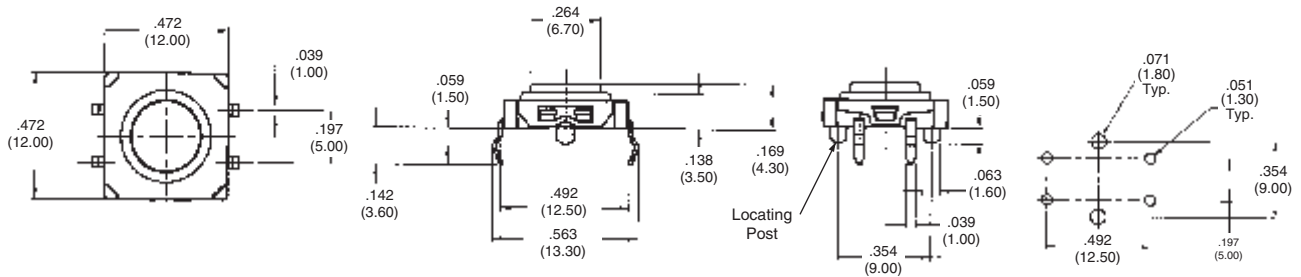
CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/-0.008 (.35 +/--.20)
 Life1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 3, Test Cond. B
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



| Tyco Electronics | Locating Post | Packaging | Actuator Height | Force |
|------------------|---------------|-----------|-----------------|----------|
| 1571220-1 | No | Bulk | .169 (4.30) | 160±70gf |
| 1571220-2 | Yes | Bulk | .169 (4.30) | 160±70gf |

E
Sealed Tactile Switches

Tactile Switches, Sealed .299 [7.6] x .287 [7.3], Surface Mount, Extended Actuator

MATERIAL SPECIFICATIONS:

CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver

TYPICAL PERFORMANCE CHARACTERISTICS:

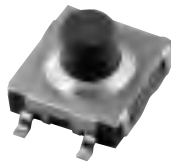
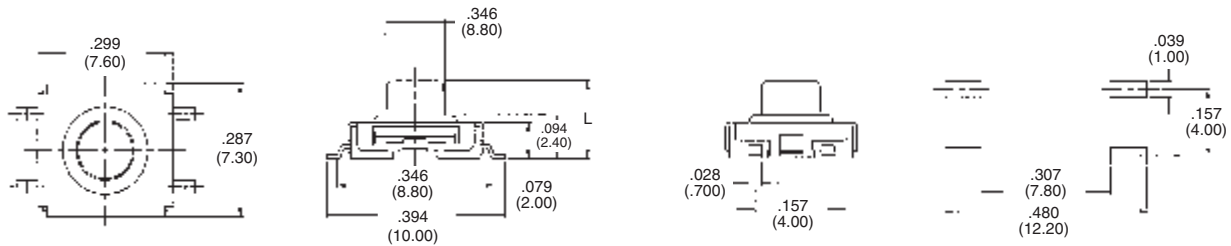
Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67

E

Sealed Tactile Switches



| Tyco Electronics | Packaging | L | Force |
|------------------|-----------|-------------|----------|
| 1571294-1 | Bulk | .169 (4.30) | 160±50gf |
| 1571294-2 | T&R | .169 (4.30) | 160±50gf |
| 1571294-3 | Bulk | .197 (5.00) | 160±50gf |
| 1571294-4 | T&R | .197 (5.00) | 160±50gf |

Tactile Switches, Sealed .299 [7.6] x .287 [7.3], Surface Mount, Flush Actuator

MATERIAL SPECIFICATIONS:

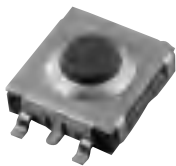
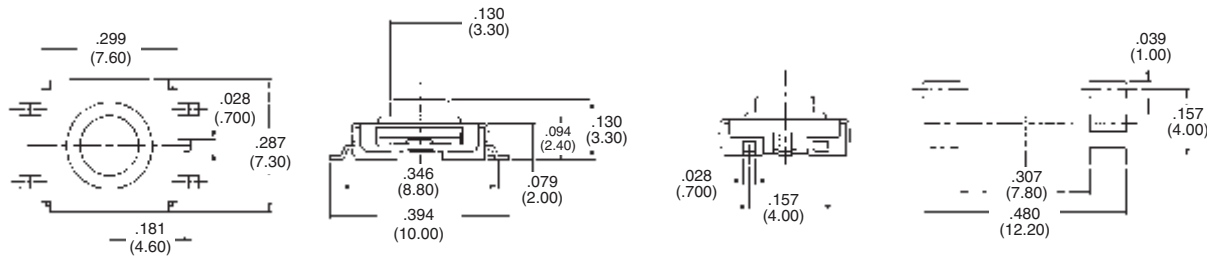
CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



| Tyco Electronics | Packaging | Actuator Height | Force |
|------------------|-----------|-----------------|----------|
| 1571296-1 | Bulk | .130 (3.30) | 160±50gf |
| 1571296-2 | T&R | .130 (3.30) | 160±50gf |

E
Sealed Tactile Switches

Tactile Switches, Sealed .299 [7.6] x .287 [7.3], Thru-Hole, Extended Actuator

MATERIAL SPECIFICATIONS:

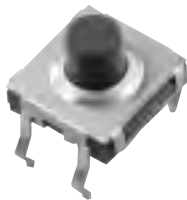
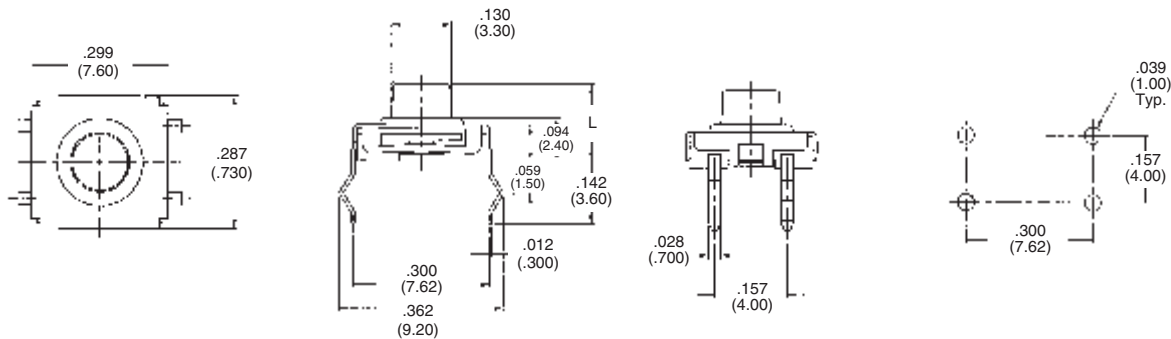
CaseThermoplastic, UL94V-0, Black
 ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel0.014 +/-0.008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 3, Test Cond.B
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



| Tyco Electronics | Packaging | L | Force |
|------------------|-----------|-------------|----------|
| 1571295-1 | Bulk | .169 (4.30) | 160±50gf |
| 1571295-2 | Bulk | .197 (5.00) | 160±50gf |

E

Sealed Tactile Switches

Tactile Switches, Sealed .185 [4.7] x .268 [6.8], Surface Mount

MATERIAL SPECIFICATIONS:

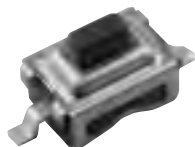
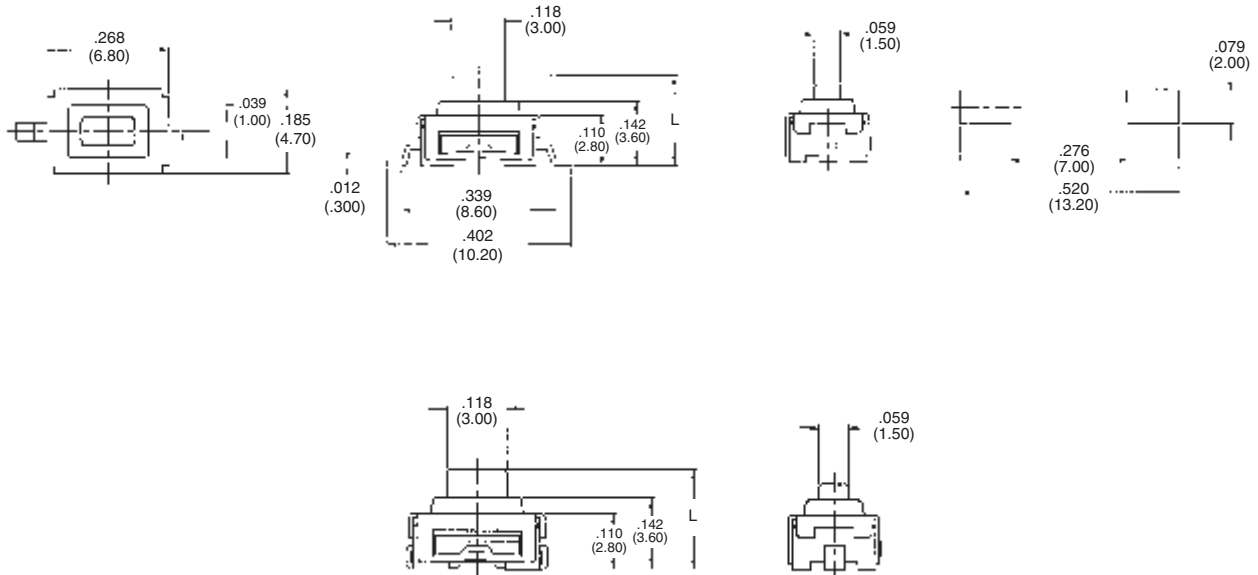
CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/-0.008 (.35 +/- .20)
 LifeUp to 50,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



| Tyco Electronics | Packaging | L | Operating Force | Lead Style |
|------------------|-----------|-------------|-----------------|------------|
| 1571298-1 | Bulk | .197 (5.00) | 130 ± 50gf | Gull Wing |
| 1571298-2 | T&R | .197 (5.00) | 130 ± 50gf | Gull Wing |
| 1571299-1 | Bulk | .169 (4.30) | 130 ± 50gf | J Lead |
| 1571299-2 | T&R | .169 (4.30) | 130 ± 50gf | J Lead |
| 1571299-3 | Bulk | .197 (5.00) | 130 ± 50gf | J Lead |
| 1571299-4 | T&R | .197 (5.00) | 130 ± 50gf | J Lead |

E
Sealed Tactile Switches

Tactile Switches, Sealed .185 [4.7] x .268 [6.8], Thru-Hole

MATERIAL SPECIFICATIONS:

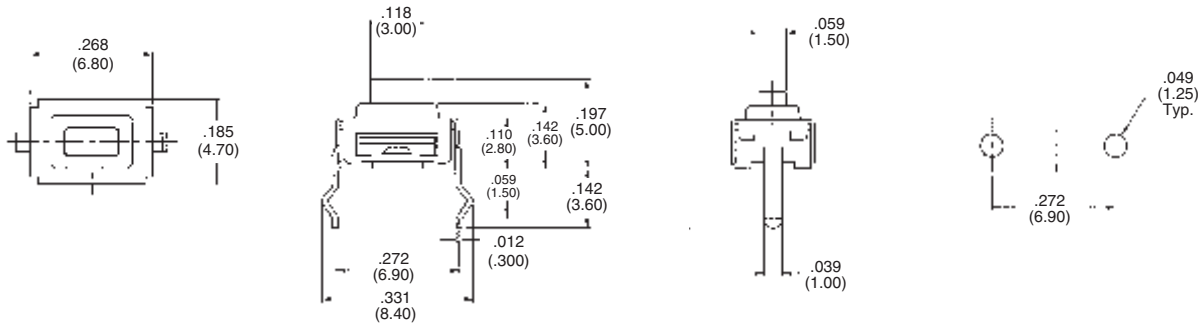
CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 LifeUp to 50,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4 to +185°F (-20 to +85°C)
 Storage Temperature-4 to +185°F (-20 to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 3, Test Cond. B
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



| Tyco Electronics | Packaging | Actuator Height | Operating Force |
|------------------|-----------|-----------------|-----------------|
| 1571297-1 | Bulk | .197 (5.00) | 130 ± 50gf |

E

Sealed Tactile Switches

Tactile Switches, Sealed Right Angle, Surface Mount

MATERIAL SPECIFICATIONS:

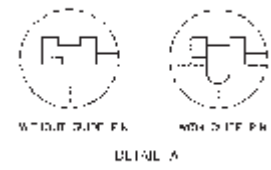
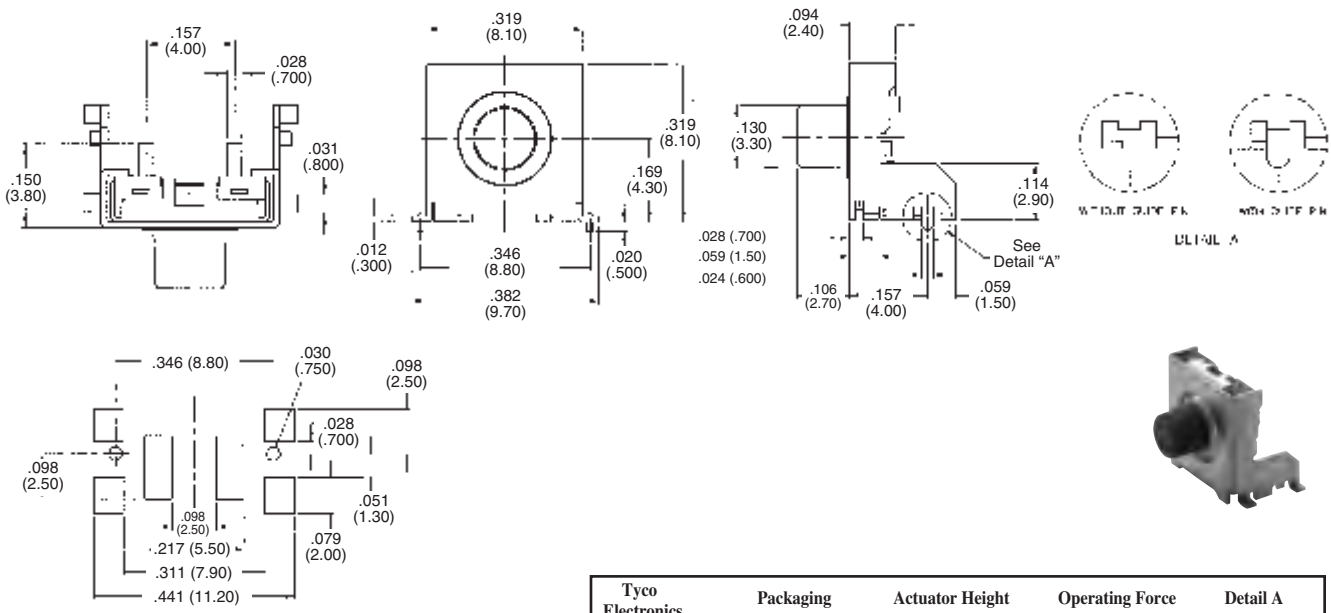
CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver/Nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4° to +185°F (-20°to +85°C)
 Storage Temperature-4° to +185°F (-20°to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67



| Tyco Electronics | Packaging | Actuator Height | Operating Force | Detail A |
|------------------|-----------|-----------------|-----------------|-------------|
| 1571300-1 | Bulk | .106 (2.70) | 130 ± 50gf | Without Pin |
| 1571300-2 | Bulk | .106 (2.70) | 130 ± 50gf | With Pin |

E
Sealed Tactile Switches

Tactile Switches, Sealed Right Angle, Surface Mount

MATERIAL SPECIFICATIONS:

CaseThermoplastic, UL94V-0, Black
 Stem/ActuatorThermoplastic, UL94V-0, Black
 CoverStainless Steel
 SealSilicone Rubber, Black
 Contact.....Stainless Steel, Plating—Silver
 TerminalCopper Alloy, Plating—Silver

TYPICAL PERFORMANCE CHARACTERISTICS:

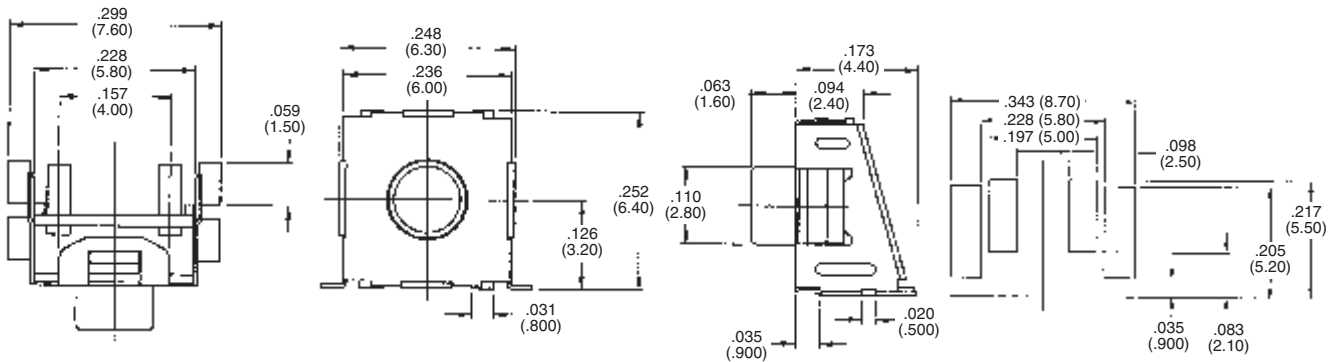
Contact Rating50mA @ 12 V DC
 Initial Contact Resistance100MilliOhms Max
 Insulation Resistance100Megaohms @ 100VDC Min.
 Dielectric Strength500 VAC
 Actuation Travel.....0.014 +/- .008 (.35 +/- .20)
 LifeUp to 1,000,000 Cycles

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-4° to +185°F (-20°to +85°C)
 Storage Temperature-4° to +185°F (-20°to +85°C)
 Resistance to solder heatPer EIA-364-56, Procedure 4 & 5, Level 3
 SolderabilityPer EIA RS-186-9E
 SealPer IP67

E

Sealed Tactile Switches



| Tyco Electronics | Packaging | Actuator Height | Operating Force |
|------------------|-----------|-----------------|-----------------|
| 1571407-1 | Bulk | .063 (1.60) | 260 ± 100gf |
| 1571407-2 | T&R | .063 (1.60) | 260 ± 100gf |

Multi-Directional Actuation

MATERIAL SPECIFICATIONS:

ContactCopper alloy - silver clad/nickel
 Case MaterialNylon - UL 94-HB, Black
 Actuator MaterialNylon - UL 94-HB, Black
 Terminals/Fixed ContactCopper alloy - plate silver clad/nickel

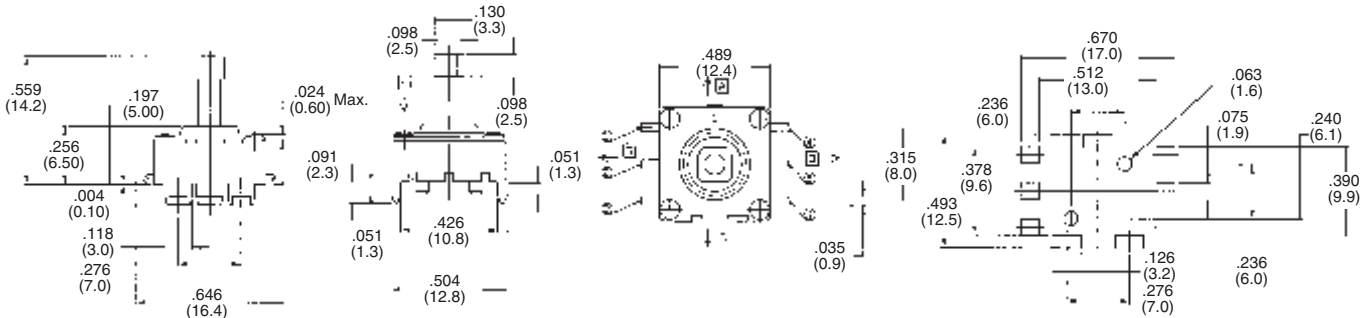
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature-13° to 158°F (-25° to +70°C)
 Storage Temperature-40° to 185°F (-40° to +85°C)
 Solder Heat Resistance.....Per EIA-364-56A, Procedure 4 and 5, Level 3
 SolderabilityPer EIA-364-52, Class 2 Cat. 1, temp. 255° max., time 5 seconds max. 95% min. coverage

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating20mA @15VDC
 Initial Contact Resistance.....100 Milliohms max.
 Insulation Resistance100 Megohm min.
 Dielectric Strength100 VAC for 1 min.
 Life ExpectancyUp to 50,000 Cycles
 Actuation Force500±150 gf (center push),
 200±100 gf (4-directional)
 Actuation Travel.....0.039 (1.0) ±.012 (.3) (4-directional),
 0.315 (8.0) ±2° (4-directional)

E Multi-Directional Switches



| Tyco Electronics | Dimension L |
|------------------|-------------|
| 1571514-1 | .559 (14.2) |
| 1571514-2 | .480 (12.2) |
| 1571514-3 | .413 (10.5) |

MATERIAL SPECIFICATIONS:

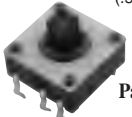
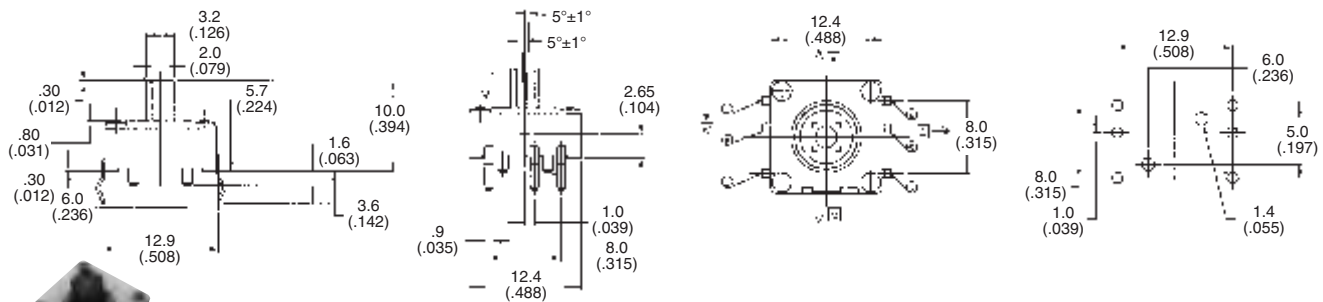
Contacts.....Stainless steel, plate silver clad/nickel
 Case MaterialNylon - UL 94-HB, Black
 Actuator MaterialPBT, UL 94-HB
 Terminals/Fixed ContactsCopper alloy - plate silver/nickel

Environmental Specifications

Operating Temperature-13° to 158°F (-25° to +70°C)
 Storage Temperature.....-40° to 185°F (-40° to +85°C)
 Solder Heat ResistancePer EIA-364-56A, Procedure 3, Condition B
 SolderabilityPer EIA-364-52, Class 2 Cat. 1, temp. 255° max., time 5 seconds max. 95% min. coverage

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating20mA @15VDC
 Initial Contact Resistance100 Milliohms max.
 Insulation Resistance100 Megohm min.
 Dielectric Strength100 VAC for 1 min.
 Life ExpectancyUp to 50,000 Cycles
 Actuation Force350±100 gf (center push),
 200±70/-50 gf (4-directional)
 Actuation Travel.....0.010 (.25) ±.008 (.2) (center push),
 0.197 (5.0) ±1° (4-directional)



Part Number 1571515-1

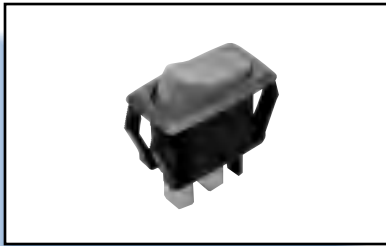
E30



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Gemini Series - Page F7



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Rocker/Paddle

F
Rocker/Paddle Switches

Rocker/Paddle Switches Part Number Index

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| A101J16Z3G00UL | F7 |
| A101J16Z3Q00UL | F7 |
| A101J16ZB00 | F7 |
| A101J16ZQ00 | F7 |
| A101J1AB0 | F7 |
| A101J1AQ0 | F14 |
| A101J1AQ2 | F7 |
| A101J1AV2B0 | F7 |
| A101J1AV2Q0 | F13 |
| A101J1CG0 | F7 |
| A101J1CG0 | F13 |
| A101J1V3B0 | F7 |
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| A101J1ZB0 | F7 |
| A101J1ZQ0 | F14 |
| A101J2AQ0 | F15 |
| A101J2AV2Q0 | F16 |
| A101J2ZB9 | F7 |
| A101J2ZQ0 | F15 |
| A101J3V3Q2 | F7 |
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| A101J4ZQ0 | F7 |
| A101J50AV2Q0 | F7 |
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| A101J51CB00 | F7 |
| A101J51Z3G00UL | F7 |
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| A101J51Z3Q00UL | F7 |
| A101J51ZB00 | F7 |
| A101J51ZQ00 | F7 |
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| A101J61ZQ00 | F7 |
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| A105J3CQ0 | F7 |
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| A107J61ZQ00 | F7 |
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| A201J3ZQ0 | F7 |
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| A201J51ZQ00UL | F7 |
| A201J51ZQ09 | F7 |
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| A205J2AQ0 | F15 |
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| A205J2ZQ0 | F15 |

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| A207J61ZQ00 | F7 |
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| A208J1V3Q0 | F7 |
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| AE101J1AG0UL | F17 |
| AE101J1AQ0 | F17 |
| AE101J1AQ4UL | F17 |
| AE101J1AV2G0 | F17 |
| AE101J1AV2Q0 | F17 |
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| AE103J2CB0 | F17 |
| AE103J50V3B0 | F17 |
| AE103J60V3Q02 | F17 |
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| AE105J1ZB0 | F17 |
| AE105J60V3B0 | F17 |
| AE107J1AQ0 | F17 |
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| AE108J1CQ0 | F17 |
| AE108J1ZB0 | F17 |
| AE108J60V3B0 | F17 |
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| AE201J1AV2Q0 | F17 |
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| AE201J2AQ2 | F17 |
| AE203J1AQ0 | F17 |
| AE205J50V3B0 | F17 |
| AE205J60V3B0 | F17 |
| AE208J50V3B0 | F17 |
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| PRADA1-07F-BB0BW | F22 |
| PRADA1-07F-BB0CW | F22 |
| PRADA1-07F-BR000 | F22 |
| PRADA1-07F-BR0BW | F22 |
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| PRADD1-07F-BB0DW | F22 |
| PRADD1-07F-BB0EW | F22 |
| PRADD2-07F-BB000 | F22 |
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| PRASA1-16F-BB0BW | F22 |
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| PRASD4-16F-BB000 | F22 |
| PRASD4-16F-BB0FW | F22 |
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| PRBSA1-16F-BW000 | F23 |
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| PRBSA1-16L-BB000 | F23 |
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| PRBSB1-16F-BA000 | F23 |
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| PRBSB1-16F-BR0BW | F23 |
| PRBSC1-16F-BBR00 | F23 |
| PRBSC1-16L-BBR00 | F23 |
| PRBSD1-16F-BB000 | F23 |
| PRBSD1-16F-BB0DW | F23 |
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| TRD13F12WL | F3 |
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| TRD23N12OC | F3 |
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| TRD23N20OC | F3 |
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| TRD23P10WL | F6 |
| TRD23P12WL | F3 |
| TRD23P20WL | F3 |

F

Rocker/Paddle Switches

Rocker/Paddle Switches, TRD Series Part Number Matrix

MATERIAL SPECIFICATIONS:

Movable ContactsCopper alloy w/silver inlay contact or gold plate
 Terminals/Fixed Contacts.....Copper alloy w/silver inlay contact or gold plate
 Terminal SealEpoxy
 Housing/Beveled FramePolyamide, black matte finish

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact RatingSilver: 3A max. @ 125 VAC, option 3
 Gold: 0.4VA max. @ 20 VDC, option 1
 Initial Contact Resistance20 Milliohms max.
 Static Withstanding.....15KV, per IEC 801-2
 Insulation Resistance1,000 Megohms min. @ 500 VDC
 Dielectric Strength500 Volts RMS @ sea level
 Electrical Life2 Pos. 20K cycles @ full rated 3A load, 80K @ 0.4VA, 3 pos. 10K cycles @ full rated 3A load, 60K @ 0.4VA

ENVIRONMENTAL SPECIFICATIONS:

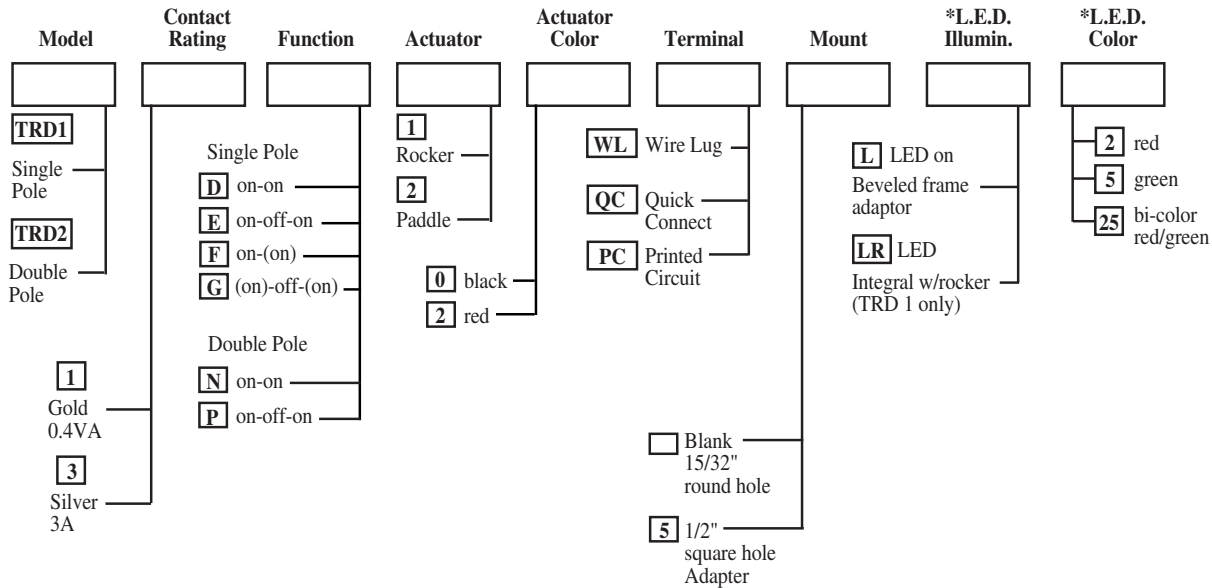
Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
 Storage Temperature.....-49°F to +199°F (-45°C to +93°C)
 Solder Heat ResistanceMeets MIL-STD-202, method 210

***NOTICE: Caution should be used when hand-soldering. Solder heat Resistance -550°-600°F for less than 5 seconds. Solder with the switch in the closed position.**

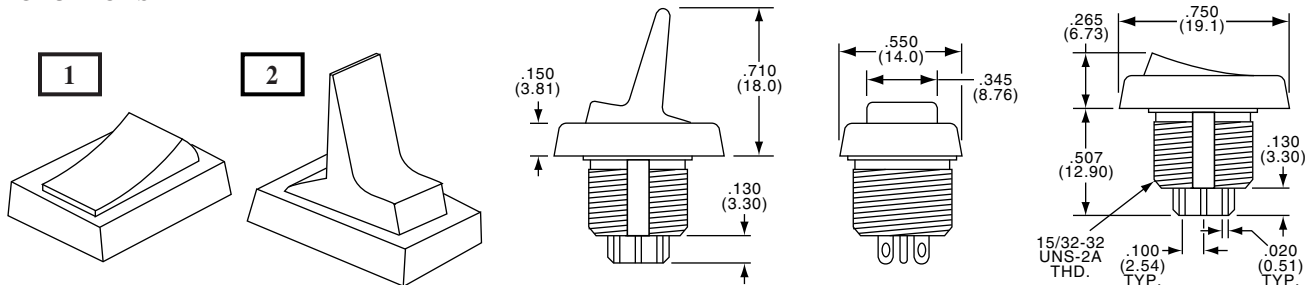
UL options available, consult Tyco Electronics Product Information Center

HOW TO ORDER

* Leave blank if LED not required.



ACTUATORS

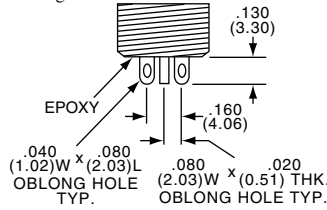


Rocker/Paddle Switches, TRD Series Options

TERMINATIONS
(Epoxy seal standard)

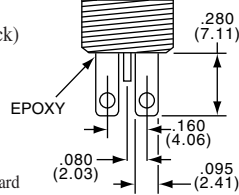
WL

Wire Lug



QC

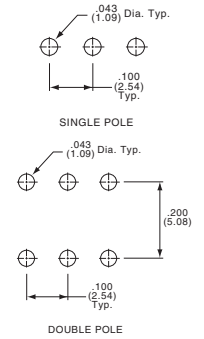
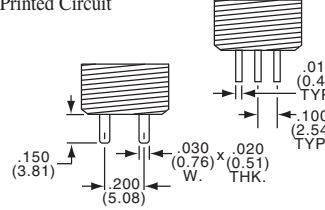
Quick Connect
.110" (.020 thick)



Mates with standard
.110" female connectors

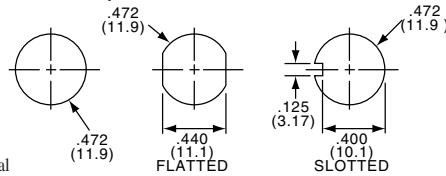
PC

Printed Circuit



15/32" HOLE STANDARD

Standard TRD bushing will mount in any hole shown below.

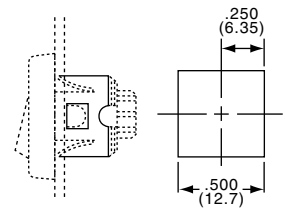


Recommended panel thickness:
.030" to .250"
One hex nut, one internal tooth lock-washer supplied.

5 1/2" SQUARE CUTOUT SNAP-IN ADAPTOR

Recommended panel thickness:
.030" to .125"

Material: bright stainless steel
To specify adaptor separately, use P/N **TRD10793**



CONTACT/RATING/UL RECOGNITION

1 0.4VA Max. @ 20 VDC

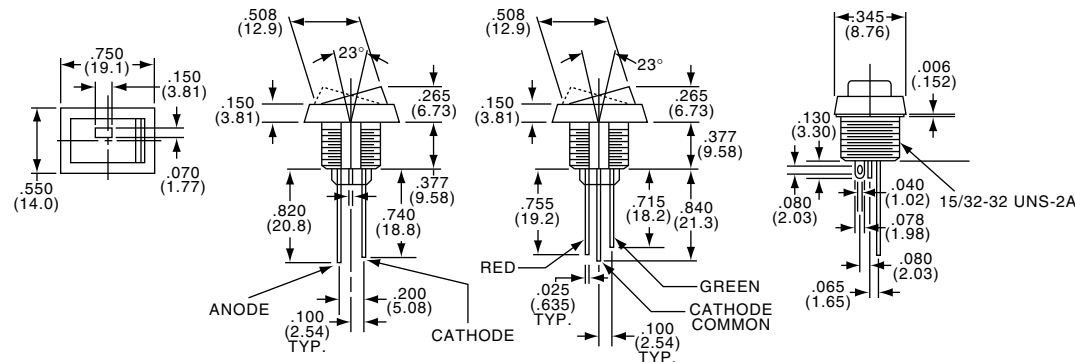
Movable Contact: Copper alloy, gold plate
Fixed Contact/Terminal: Copper alloy, gold plate

3 3A Max. @ 125 VAC

Movable Contact: Copper alloy, silver inlay
Fixed Contact/Terminal: Copper alloy, silver inlay

L.E.D. ILLUMINATION - SINGLE AND BI-COLOR

LR L.E.D. Integral (Rocker Actuator)
All SPDT functions (TRD1 Model)



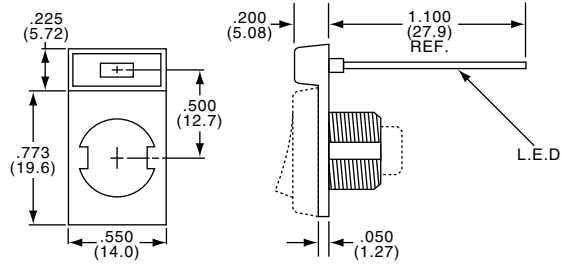
Standard mounting dimensions apply, L.E.D. supplied in **2** red, **5** green, or **25** red/green.
L.E.D. Specifications: Max Voltage: 2.8 VDC
Max. Forward Current: red-20mA, green-25 mA, red/green-40 mA.

F4

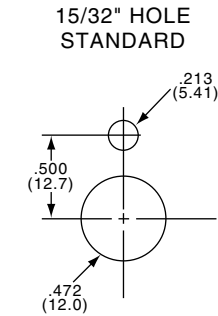
Rocker/Paddle Switches, TRD Series Options

L L.E.D. BEVELED FRAME ADAPTOR
(Accepts rectangular L.E.D.)

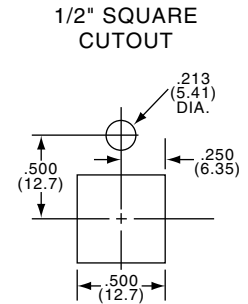
MOUNTING



Material: Nylon 6/6
Color/Finish: Black, matte



Recommended Panel Thickness: .030 to .220:



Recommended Panel Thickness: .030 to .095"

FUNCTIONS

| Single Pole | Double Pole | 123 456 | 123 456 | 123 456 |
|-----------------------------|----------------------------|------------|------------|------------|
| <input type="checkbox"/> D | <input type="checkbox"/> N | On | None | On |
| <input type="checkbox"/> E | <input type="checkbox"/> P | On | Off | On |
| <input type="checkbox"/> F | | On | None | (On) |
| <input type="checkbox"/> G | | (On) | Off | (On) |
| SPDT Terminals Connected | | 2-3 | --- | 1-2 |
| DPDT Terminals Connected | | 2-3 5-6 | --- | 1-2 4-5 |

None No mechanical position

Off Mechanical position, no electrical connection

(On) Momentary mechanical position, and electrical connection

* Refer to Pages F3-F5 for Other Options *

Rocker Switches, TRD Series Illuminated or Non-Illuminated, Wire Lug

MATERIAL SPECIFICATIONS:

ContactsGold over nickel or silver plate
 Case MaterialPolyamide, black matte finish
 Actuator MaterialPolyamide
 Terminals/Fixed Contacts.....Copper alloy with gold or silver plate
 Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
 Storage Temperature.....-49°F to +199°F (-45°C to +93°C)

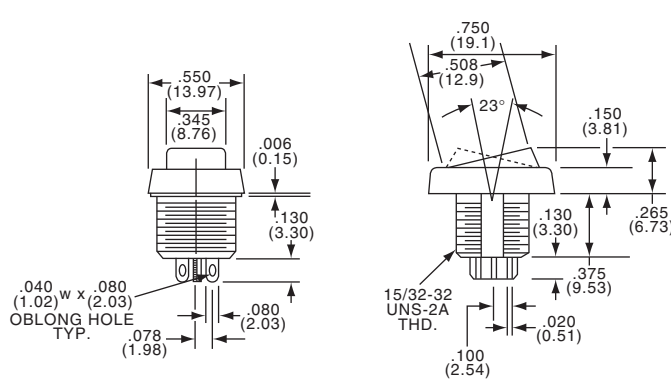
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA Max. @ 20 VDC or peak AC
 3 A @ 125 VAC or 28 VDC (2 pos.) 2A
 Initial Contact Resistance20 Milliohms max.
 Contact TimingBreak-before-make
 Insulation Resistance1,000 Megohms min.
 Dielectric Strength500 Volts RMS @ sea level
 Actuator Travel.....23°
 Life Expectancy2 Pos. - Up to 100,000 actuations
 3 Pos. - Up to 50,000 actuations

NOTE: Part numbering matrix page F3

NOTE: When hand soldering, solder with switch in closed position. Solder temperature 550-600°F less than 5 seconds.

F
TRD Series

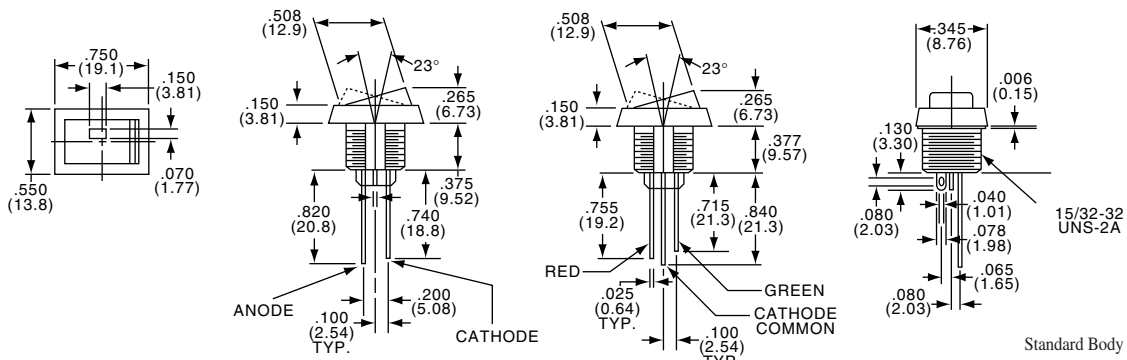


DPDT
TRD21N10WL

Standard Body Color - (Black)

| Model | Type | Function | Act. Code Pg. M5 | Contact | Terminal | Model | Type | Function | Act. Code Pg. M5 | Contact | Terminal |
|--------------|------|--------------|------------------|---------|----------|--------------|------|--------------|------------------|---------|----------|
| TRD11D1(*)WL | SPDT | On None On | 1 | Gold | Wire Lug | TRD13D1(*)WL | SPDT | On None On | 1 | Silver | Wire Lug |
| TRD11E1(*)WL | SPDT | On Off On | 5 | Gold | Wire Lug | TRD13E1(*)WL | SPDT | On Off On | 5 | Silver | Wire Lug |
| TRD11F1(*)WL | SPDT | On None (On) | 1 | Gold | Wire Lug | TRD13F1(*)WL | SPDT | On None (On) | 1 | Silver | Wire Lug |
| TRD21N1(*)WL | DPDT | On None On | 2 | Gold | Wire Lug | TRD23N1(*)WL | DPDT | On None On | 2 | Silver | Wire Lug |
| TRD21P1(*)WL | DPDT | On Off On | 6 | Gold | Wire Lug | TRD23P1(*)WL | DPDT | On Off On | 6 | Silver | Wire Lug |

(*) Specify rocker color by adding suffix number: (0) Black (2) Red, (On) indicates momentary position.



SPDT
TRD11D10WLLR

Standard Body and Rocker Color - (Black)

ILLUMINATED

ILLUMINATED

| Model | Type | Function | Act. Code Pg. M5 | Contact | Terminal | Model | Type | Function | Act. Code Pg. M5 | Contact | Terminal |
|-----------------|------|--------------|------------------|---------|----------|-----------------|------|--------------|------------------|---------|----------|
| TRD11D10WLLR(*) | SPDT | On None On | 1 | Gold | Wire Lug | TRD13D10WLLR(*) | SPDT | On None On | 1 | Silver | Wire Lug |
| TRD11E10WLLR(*) | SPDT | On Off On | 5 | Gold | Wire Lug | TRD13E10WLLR(*) | SPDT | On Off On | 5 | Silver | Wire Lug |
| TRD11F10WLLR(*) | SPDT | On None (On) | 1 | Gold | Wire Lug | TRD13F10WLLR(*) | SPDT | On None (On) | 1 | Silver | Wire Lug |

(*) Specify LED color by adding suffix number: (2) Red, (5) Green, (25) Red/Green - Bi-color (On) indicates momentary position.

Rocker/Paddle Switches, A Series, Part Number Matrix

MATERIAL SPECIFICATIONS:

Contacts/Terminals.....Gold/gold flash
 Silver/tin lead
 Case MaterialThermoset 94V-0
 Actuator MaterialPolyamide
 Terminal SealEpoxy

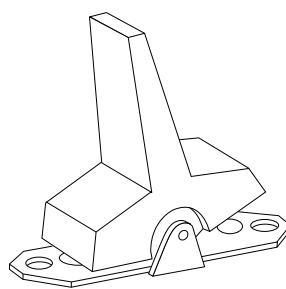
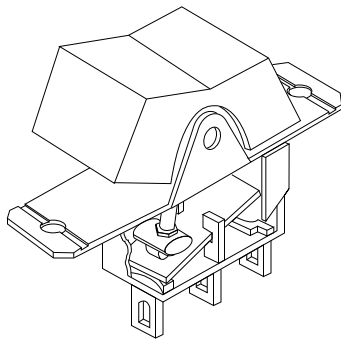
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +185°F (-20°C to +85°C)
 Storage Temperature.....-49°F to +212°F (-45°C to +100°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact RatingGold: 0.4 VA @ 20 AC/DC
 Silver: 2 A @ 250 VAC: 5 A @ 125 VAC
 Silver: 2 A @ 30 VDC
 Initial Contact Resistance30 Milliohms max.
 Contact TimingBreak-before-make
 Insulation Resistance1,000 Megohms @ 500 VDC
 Dielectric Strength1,000 Volts RMS @ sea level
 Actuator Travel.....25°
 Life ExpectancyUp to 30,000 Cycles

DESIGN



PART NUMBERING

| Model | Function | Actuator | Terminal | Contact | Actuator Color | Beveled Frame Color | Option |
|-----------|---------------|--|--|---------------------------|-----------------------|-----------------------|---------------------------|
| A1 | Single Pole | J1 Small | Z Wire Lug | Q Silver | 0 Black (Std.) | 0 Black (Std.) | UL (Q or G) contacts only |
| A2 | Double Pole | J3 Large | A Right Angle | B Gold | 2 Red | | |
| 01 | On-On | J15 Snap-in | AV2 Vert. Right Angle | G Gold over Silver | | | |
| 03 | On-Off-On | J16 Snap-in w/beveled frame | C Printed Circuit | | | | |
| 05 | (On)-Off-(On) | J50 Snap-in | V5 Vertical Right Angle | | | | |
| | | J51 Snap-in w/beveled frame | V3 V4 Vertical Support Bracket | | | | |
| | | J52 Snap-in w/beveled frame LED | W Wire Wrap | | | | |
| | | J2 Small | Z3 Quick Connect | | | | |
| | | J4 Large | | | | | |
| | | J5 Large | | | | | |
| | | J60 Snap-in | | | | | |
| | | J61 Snap-in w/beveled frame | | | | | |
| | | J62 Snap-in w/beveled frame & LED | | | | | |

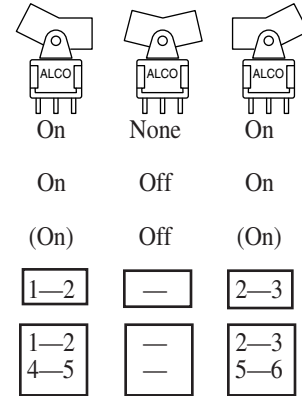
OPTIONAL:
 UL recognized under the Component Program of Underwriters Laboratories Inc. File # E46765
 CSA Certified File #LR65901

Rocker/Paddle Switches, A Series, Options

FUNCTIONS

The following functions available in SP or DP.

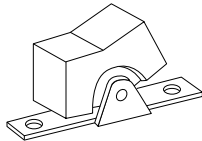
- 01** 2 Positions None indicates no mechanical position
 - 03** 3 Positions Off indicates a mechanical position with no electrical connection.
 - 05** 3 Positions (On) indicates momentary operation.
- SPDT, connect terminals:
DPDT, connect terminals:



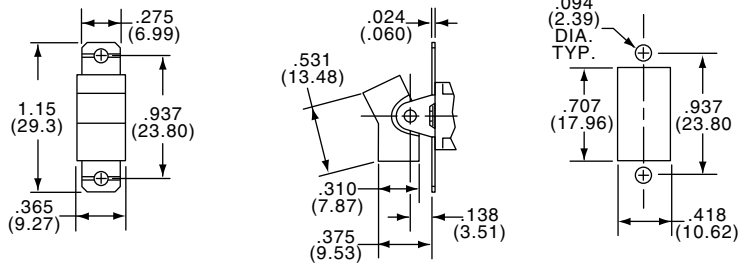
ACTUATORS

J1 Rockers

Small

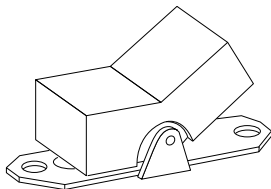


Mounting Type Standard with C or Z Terminal Type

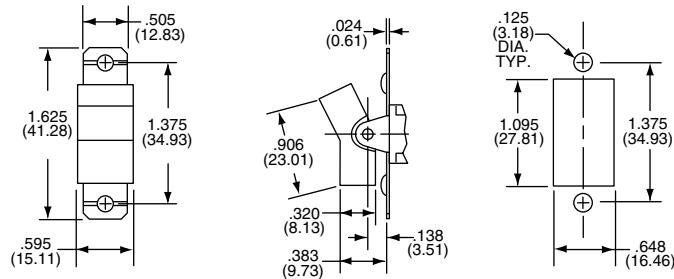


J3

Large



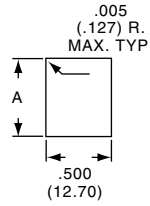
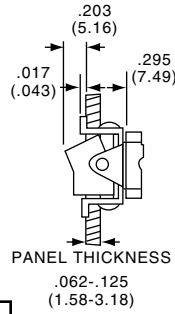
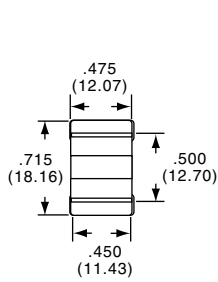
Mounting Type Standard with C or Z Terminal Type



F

Gemini Series Rocker/Paddle Switches

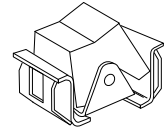
Rocker/Paddle Switches, A Series, Options



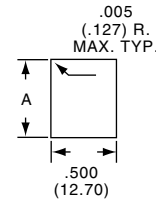
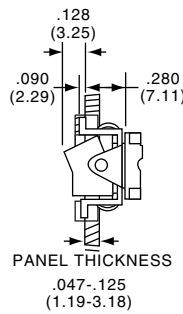
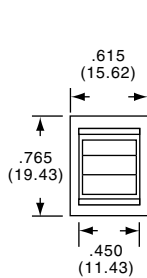
ROCKER



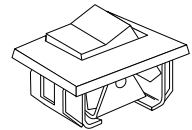
Snap-in



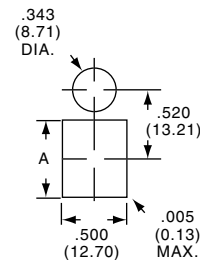
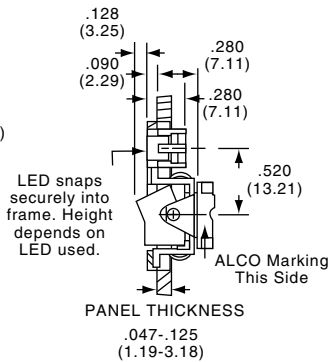
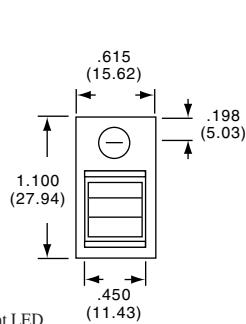
| | Panel Opening | | |
|-----------------|---------------|-----------|-----------|
| Panel Thickness | .062 | .093 | .125 |
| "A" | .600-.605 | .610-.615 | .620-.625 |



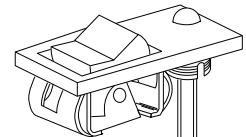
Snap-in with beveled frame



| | Panel Opening | | |
|-----------------|---------------|-----------|-----------|
| Panel Thickness | .062 | .093 | .125 |
| "A" | .600-.605 | .610-.615 | .620-.625 |



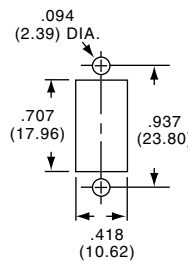
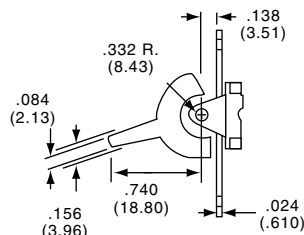
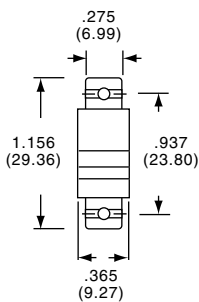
Snap-in with beveled frame/L.E.D.



L.E.D. Not supplied.

Accepts BL-17 or equivalent LED

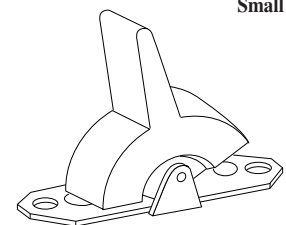
| | Panel Opening | | |
|-----------------|---------------|-----------|-----------|
| Panel Thickness | .062 | .093 | .125 |
| "A" | .600-.605 | .610-.615 | .620-.625 |



PADDLE

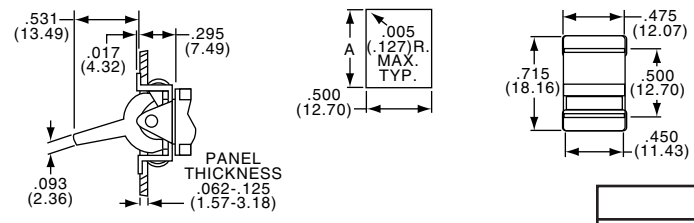
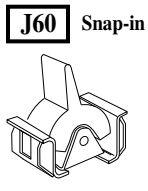
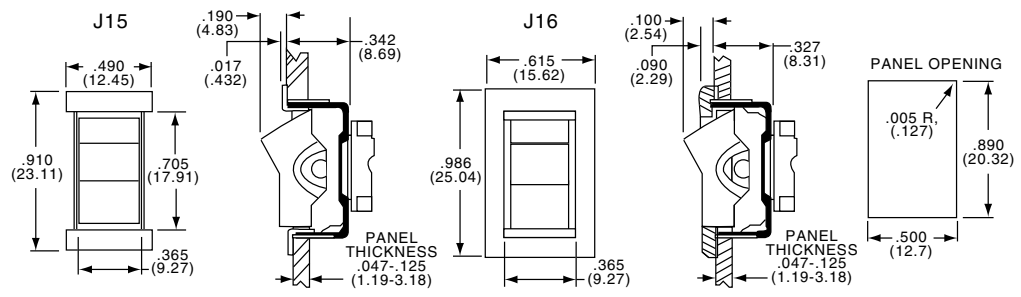
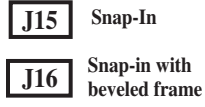
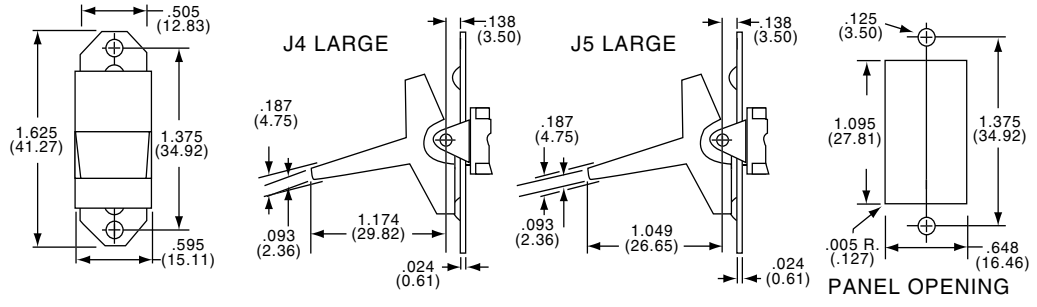
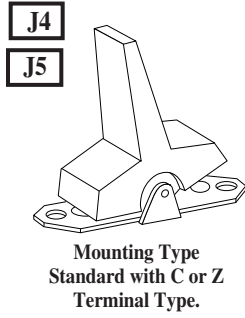


Small

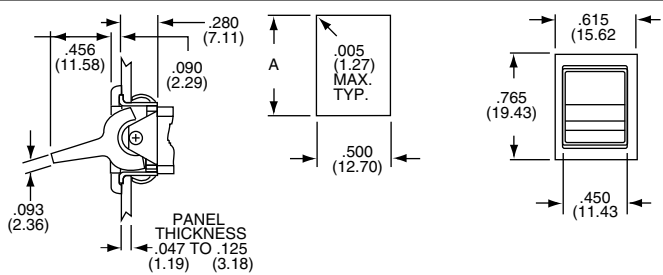
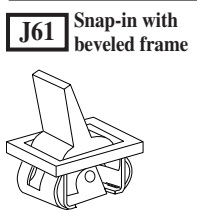


Mounting Type Standard with C or Z Terminal Type.

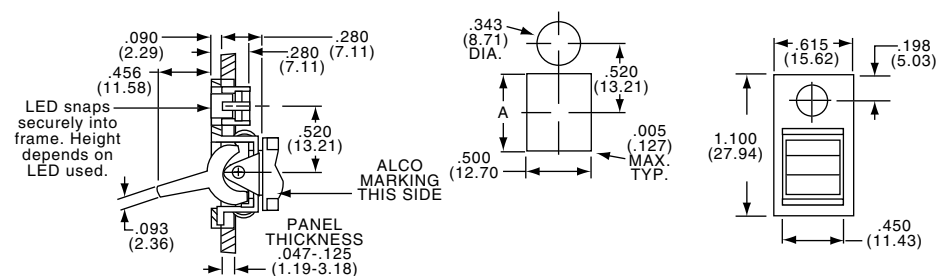
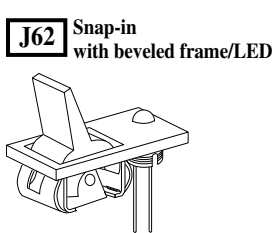
Rocker/Paddle Switches, A Series, Options



| Panel Opening | | | |
|-----------------|-----------|-----------|-----------|
| Panel Thickness | .062 | .093 | .125 |
| "A" | .600-.605 | .610-.615 | .620-.625 |



| Panel Opening | | | |
|-----------------|-----------|-----------|-----------|
| Panel Thickness | .062 | .093 | .125 |
| "A" | .600-.605 | .610-.615 | .620-.625 |



| Panel Opening | | | |
|-----------------|-----------|-----------|-----------|
| Panel Thickness | .062 | .093 | .125 |
| "A" | .600-.605 | .610-.615 | .620-.625 |

Accepts BL-17 or equivalent LED
L.E.D. not supplied

F

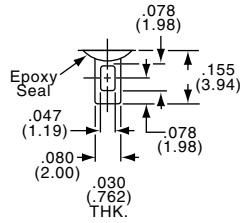
Gemini Series Rocker/Paddle Switches

Rocker/Paddle Switches, A Series, Termination Options

TERMINALS

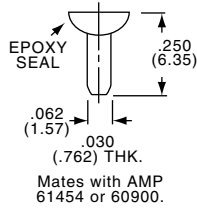
Z

Wire Lug Standard



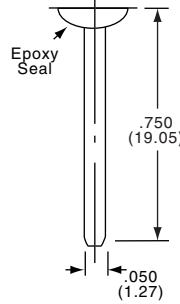
Q

Quick Connect



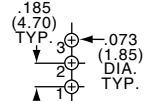
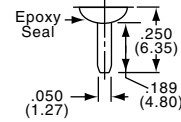
W

Wire Wrap

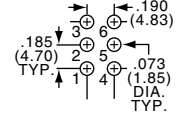


C

Printed Circuit



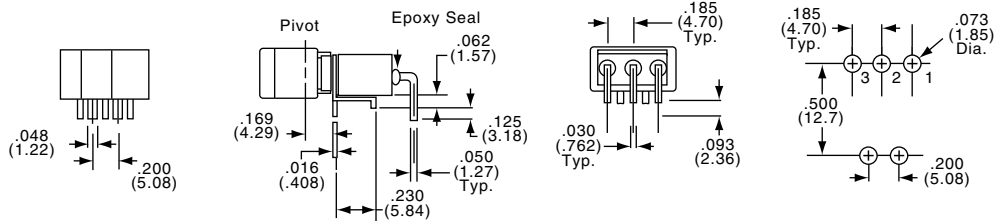
SINGLE POLE



DOUBLE POLE

A

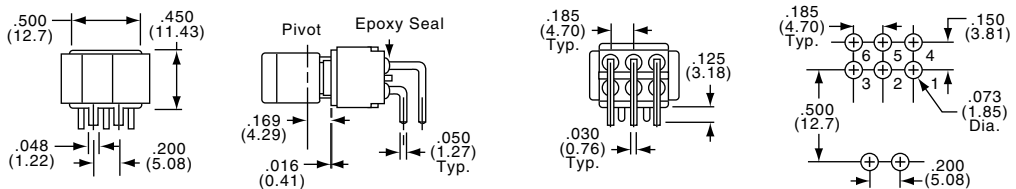
Right Angle Single Pole



NOTE: Terminal numbers viewed from top of P.C. board.

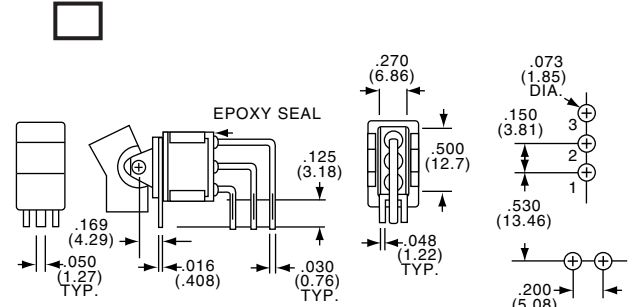
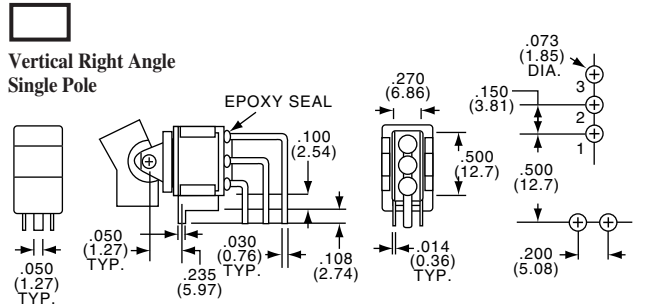
A

Right Angle Double Pole

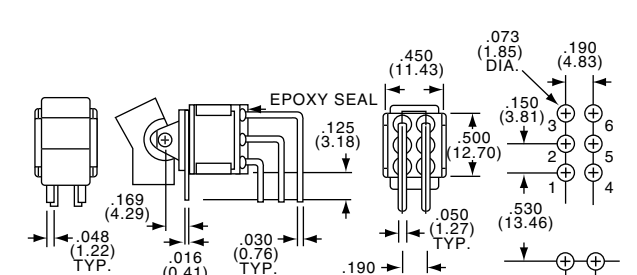
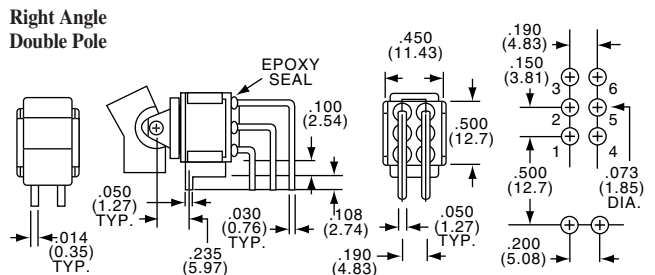


NOTE: Terminal numbers viewed from top of P.C. board.

Rocker/Paddle Switches, A Series, Options

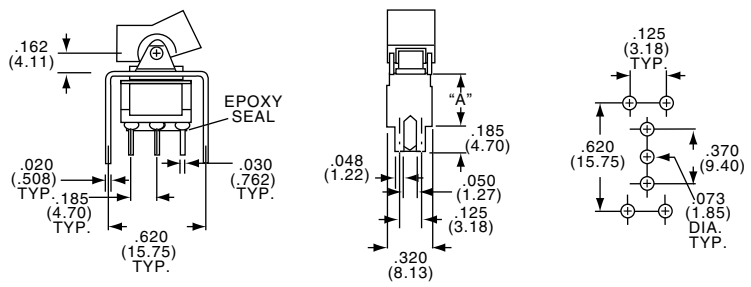


NOTE: Terminal numbers viewed from top of P.C. board.



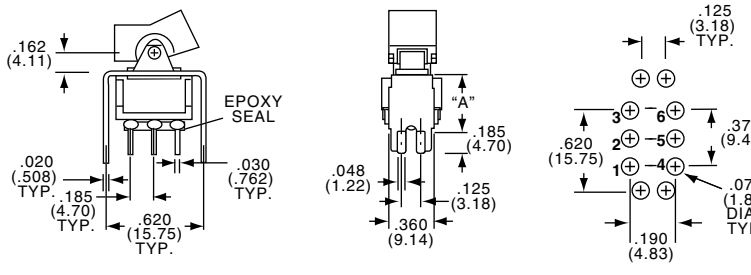
NOTE: Terminal numbers viewed from top of P.C. board.

V3 V4
Vertical Support Bracket Single Pole



| Option Code | Dim. "A" |
|-------------|--------------|
| V3 | .460 (11.68) |
| V4 | .630 (16.00) |

Vertical Support Bracket Double Pole



| Option Code | Dim. "A" |
|-------------|--------------|
| V3 | .460 (11.68) |
| V4 | .630 (16.00) |

CONTACTS

B CONTACTS: Copper alloy with gold plate, welded button.

TERMINALS: Copper alloy with gold plate.

ELECTRICAL RATING: 0.4VA @ 20 VAC/DC.

Q CONTACTS: Copper alloy with silver, welded button.

TERMINALS: Copper alloy with tin/lead plate.

ELECTRICAL RATING: 5 A @ 125 VAC, 2 A @ 250 VAC, 2 A @ 30 VDC. UL/CSA RATING: 5A @ 125 VAC, 3 @ 250 VAC (Specify "UL" option code)

G CONTACTS: Copper alloy with gold plate over silver, welded button.

TERMINALS: Copper alloy with gold plate.

ELECTRICAL RATING: 0.4 VA @ 20 VAC/DC or 5 A @ 125 VAC, 2 A @ 250 VAC, 2 A @ 30 VDC.

Note: This contact option can be used for low-level or power switching. If level is above 0.4 VA @ 20 VAC/DC, the switch is rendered usable only for power switching due to arc-removal of gold plate.

UL/CSA RATING: 5A @ 125 VAC, 3 @ 250 VAC (Specify "UL" option code)

F

Gemini Series Rocker/Paddle Switches

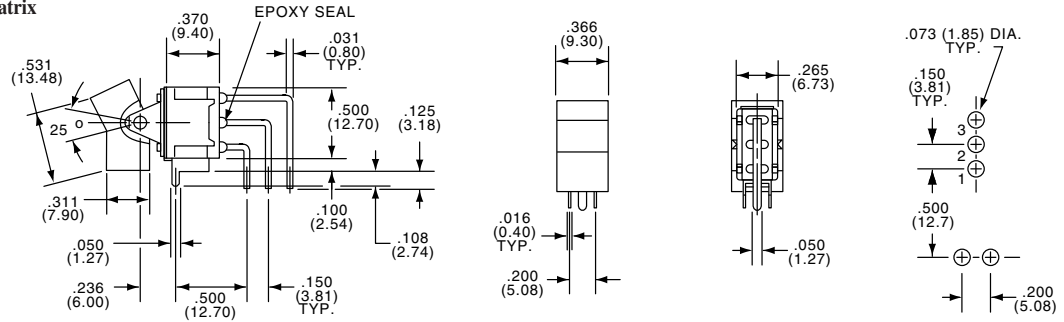
Rocker Switches, A Series, PC Tail, Straight or Vertical Right Angle

* Refer to Pages F7 for Product Specifications and Part Matrix

SPDT



A101J1AV2Q0

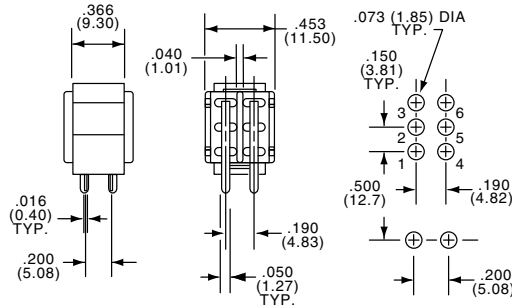


DPDT



A205J1AV2Q0

Standard Rocker Color - (Black)

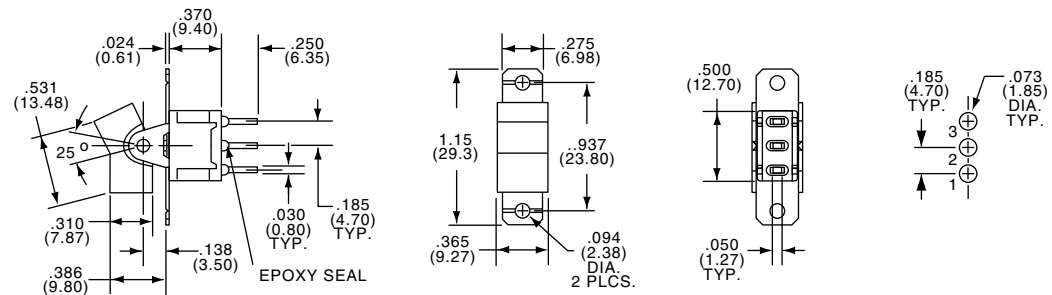


| Silver Contacts | | | | | | |
|------------------|-------------|------|------------------|------|------|------|
| Tyco Electronics | Alcoswitch | Type | Act. Code. P. M5 | | | |
| 1-1437591-1 | A101J1AV2Q0 | SPDT | 1 | On | None | On |
| 4-1437591-7 | A105J1AV2Q0 | SPDT | 5 | (On) | Off | (On) |
| 7-1437591-1 | A201J1AV2Q0 | DPDT | 2 | On | None | On |
| 9-1437591-6 | A205J1AV2Q0 | DPDT | 6 | (On) | Off | (On) |

SPDT



A101J1CQ0

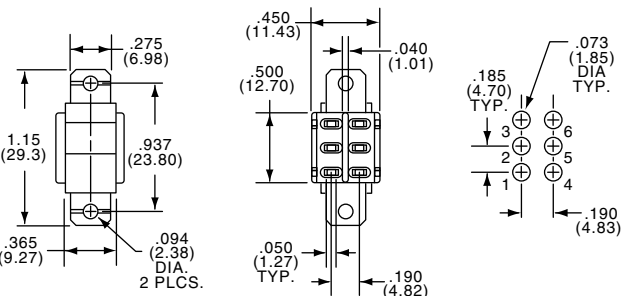


DPDT



A201J1CQ0

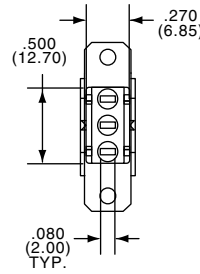
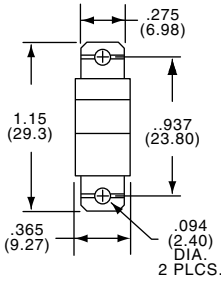
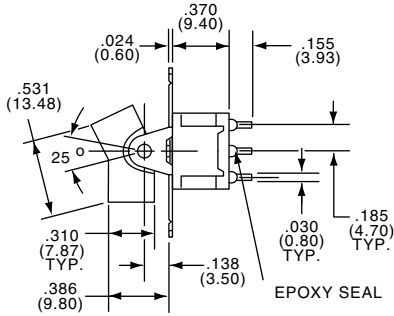
Standard Rocker Color - (Black)



| Silver Contacts | | | | | | |
|------------------|------------|------|------------------|------|------|------|
| Tyco Electronics | Alcoswitch | Type | Act. Code. P. M5 | | | |
| 1-1437591-3 | A101J1CQ0 | SPDT | 1 | On | None | On |
| 4-1437591-8 | A105J1CQ0 | SPDT | 5 | (On) | Off | (On) |
| 7-1437591-2 | A201J1CQ0 | DPDT | 2 | On | None | On |
| — | A203J1CQ0 | DPDT | 6 | On | Off | On |
| — | A205J1CQ0 | DPDT | 6 | (On) | Off | (On) |

Rocker Switches, A Series, Wire Lug or Right Angle

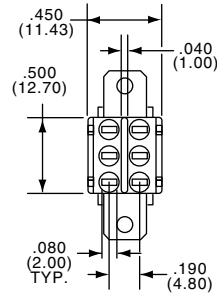
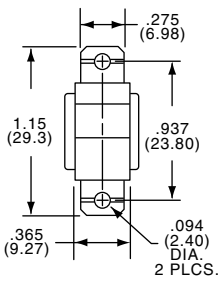
SEE PAGE F7 FOR PRODUCT SPECIFICATIONS AND PART MATRIX



SPDT



A101J1ZQ0



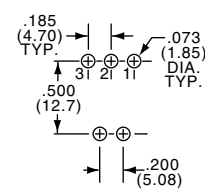
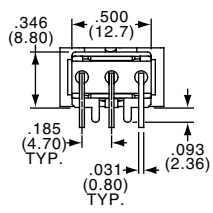
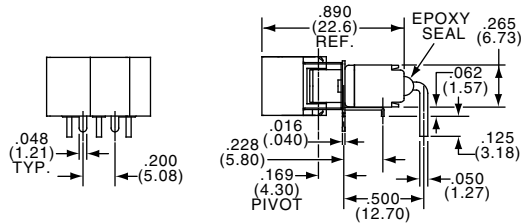
DPDT



A201J1ZQ0

Standard Rocker Color - (Black)

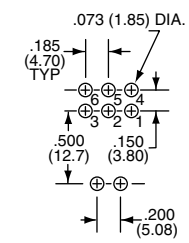
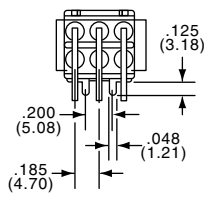
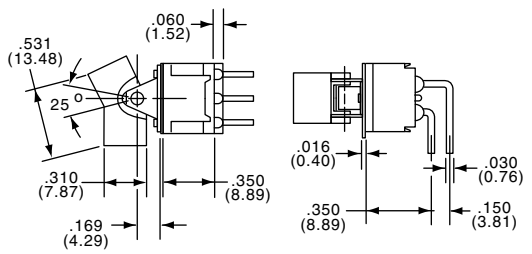
| Silver Contacts | | | | | | | Silver Contacts | | | | | | | | |
|------------------|------------|------|------------|-------|------|------|-----------------|------------------|------------|------|------------|-------|------|------|------|
| Tyco Electronics | Alcoswitch | Type | Act. Code. | P. M5 | | | | Tyco Electronics | Alcoswitch | Type | Act. Code. | P. M5 | | | |
| 1-1437591-7 | A101J1ZQ0 | SPDT | 1 | | On | None | On | 7-1437591-4 | A201J1ZQ0 | DPDT | 2 | | On | None | On |
| 3-1437591-8 | A103J1ZQ0 | SPDT | 5 | | On | Off | On | 9-1437591-1 | A203J1ZQ0 | DPDT | 6 | | On | Off | On |
| 5-1437591-0 | A105J1ZQ0 | SPDT | 5 | | (On) | Off | (On) | 9-1437591-7 | A205J1ZQ0 | DPDT | 6 | | (On) | Off | (On) |



SPDT



A101J1AQ0



DPDT



A201J1AQ0

Standard Rocker Color - (Black)

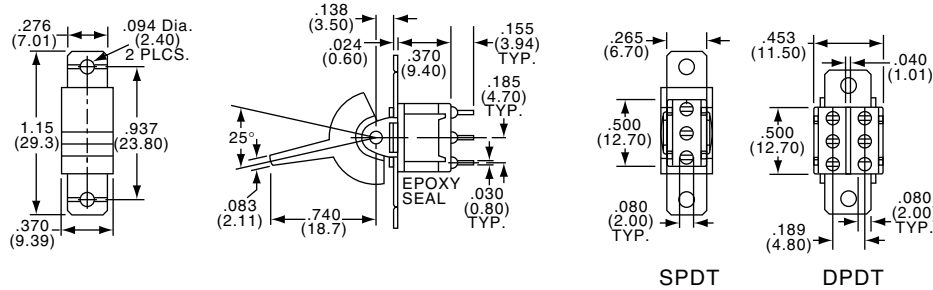
| Silver Contacts | | | | | | | Silver Contacts | | | | | | | | |
|------------------|------------|------|------------|-------|------|------|-----------------|------------------|------------|------|------------|-------|------|------|------|
| Tyco Electronics | Alcoswitch | Type | Act. Code. | P. M5 | | | | Tyco Electronics | Alcoswitch | Type | Act. Code. | P. M5 | | | |
| 1-1437591-8 | A101J1AQ0 | SPDT | 1 | | On | None | On | 6-1437591-9 | A201J1AQ0 | DPDT | 2 | | On | None | On |
| 4-1437591-6 | A105J1AQ0 | SPDT | 5 | | (On) | Off | (On) | 8-1437591-7 | A203J1AQ0 | DPDT | 6 | | On | Off | On |
| | | | | | | | | — | A205J1AQ0 | DPDT | 6 | | (On) | Off | (On) |

F

Gemini Series Rocker/Paddle Switches

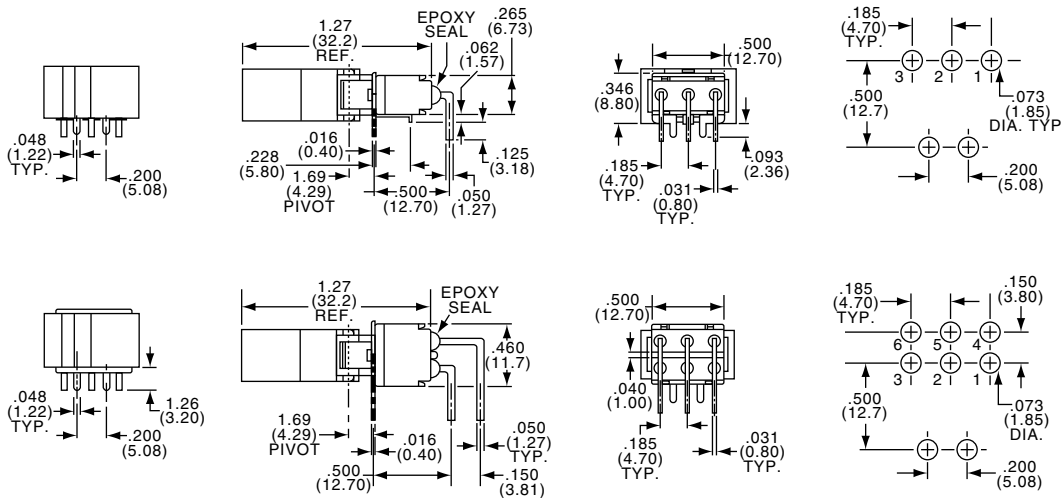
* Refer to Pages F7 for Product Specifications and Part Matrix

Paddle Switches, A Series, Wire Lug or Right Angle



Standard Paddle Color - (Black)

| Silver Contacts Tyco Electronics | Alcoswitch | Type | Act. | Code | P. M5 | On | None | On | Silver Contacts Tyco Electronics | Alcoswitch | Type | Act. | Code | P. M5 | On | None | On |
|-------------------------------------|------------|------|------|------|-------|------|------|------|-------------------------------------|------------|------|------|------|-------|------|------|------|
| 1-1437591-9 | A101J2ZQ0 | SPDT | 1 | | | On | None | On | 7-1437591-6 | A201J2ZQ0 | DPDT | 2 | | | On | None | On |
| 4-1437591-0 | A103J2ZQ0 | SPDT | 5 | | | On | Off | On | — | A203J2ZQ0 | DPDT | 6 | | | On | Off | On |
| 5-1437591-3 | A105J2ZQ0 | SPDT | 5 | | | (On) | Off | (On) | 9-1437591-9 | A205J2ZQ0 | DPDT | 6 | | | (On) | Off | (On) |



Standard Paddle Color - (Black)

| Silver Contacts Tyco Electronics | Alcoswitch | Type | Act. | Code | P. M5 | On | None | On | Silver Contacts Tyco Electronics | Alcoswitch | Type | Act. | Code | P. M5 | On | None | On |
|-------------------------------------|------------|------|------|------|-------|------|------|------|-------------------------------------|------------|------|------|------|-------|------|------|------|
| — | A101J2AQ0 | SPDT | 1 | | | On | None | On | — | A201J2AQ0 | DPDT | 2 | | | On | None | On |
| — | A103J2AQ0 | SPDT | 5 | | | On | Off | On | — | A203J2AQ0 | DPDT | 6 | | | On | Off | On |
| 5-1437591-1 | A105J2AQ0 | SPDT | 5 | | | (On) | Off | (On) | — | A205J2AQ0 | DPDT | 6 | | | (On) | Off | (On) |

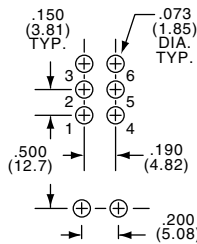
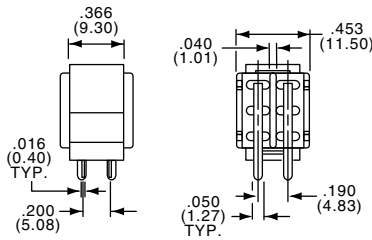
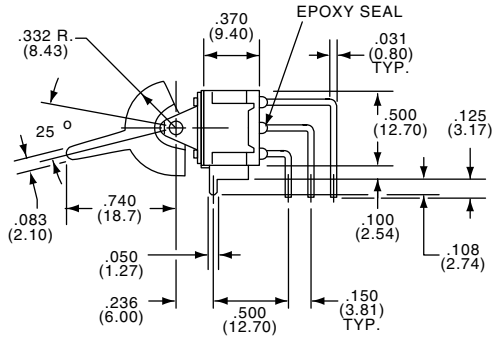
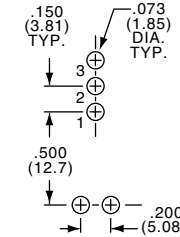
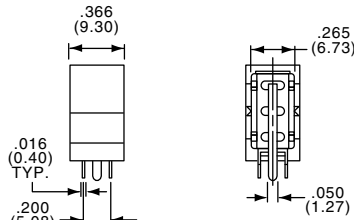
Paddle Switches, A Series, PC Tail, Straight or Vertical Right Angle

SEE PAGE F7 FOR PRODUCT SPECIFICATIONS AND PART MATRIX

SPDT / DPDT



A105J2AV2Q0



F

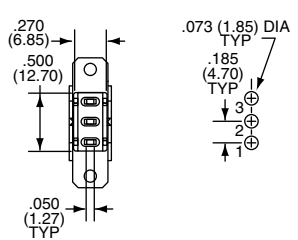
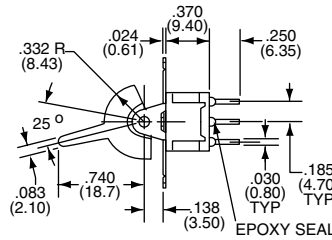
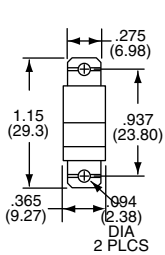
Standard Paddle Color - (Black)

| Silver Contacts | | | | | | | Silver Contacts | | | | | | | | |
|------------------|-------------|------|-----------|-------|-------|------|-----------------|------------------|-------------|------|-----------|-------|------|------|----|
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
| 1-1437591-8 | A101J2AV2Q0 | SPDT | 1 | On | None | On | | — | A201J2AV2Q0 | DPDT | 2 | On | None | On | |
| 5-1437591-2 | A105J2AV2Q0 | SPDT | 5 | (On) | (Off) | (On) | | | | | | | | | |

SPDT



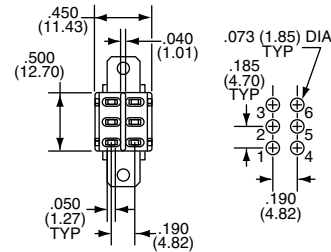
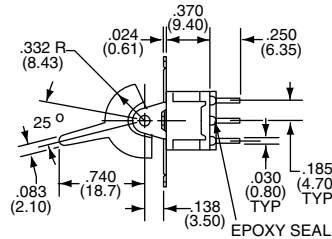
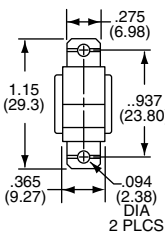
A105J2CQ0



DPDT



A205J2CQ0



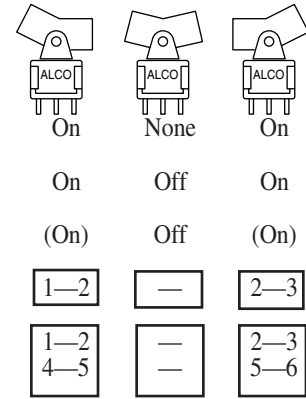
| Silver Contacts | | | | | | | Silver Contacts | | | | | | | | |
|------------------|------------|------|-----------|-------|-------|------|-----------------|------------------|------------|------|-----------|-------|-------|------|----|
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
| — | A103J2CQ0 | SPDT | 5 | (On) | (Off) | (On) | | 7-1437591-5 | A201J2CQ0 | DPDT | 2 | On | None | On | |
| — | A105J2CQ0 | SPDT | 5 | (On) | (Off) | (On) | | 9-1437591-8 | A205J2CQ0 | DPDT | 6 | (On) | (Off) | (On) | |

Rocker/Paddle Switches, AE Series, Process Sealed, Options

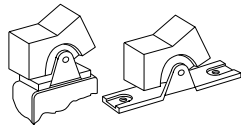
FUNCTIONS

The following functions available in SP or DP.

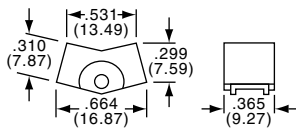
- 01** 2 Positions None indicates no mechanical position
 - 03** 3 Positions Off indicates a mechanical position with no electrical connection.
 - 05** 3 Positions (On) indicates momentary operation
- SPDT, connect terminals:
 DPDT, connect terminals:



J1
Rocker

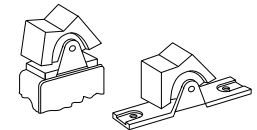


Mounting Provided with C or Z Terminal Type.

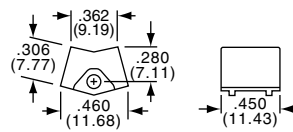


ACTUATORS

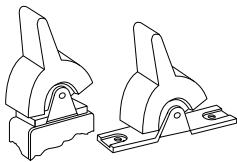
J50
Rocker



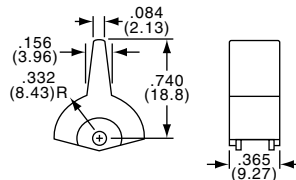
Mounting Provided with C or Z Terminal Type.



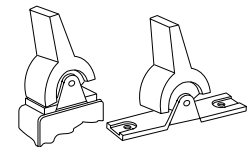
J2
Paddle



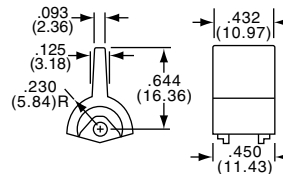
Mounting Provided with C or Z Terminal Type.



J60
Paddle



Mounting Provided with C or Z Terminal Type.

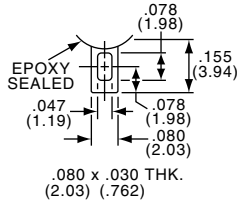


Rocker/Paddle Switches, AE Series, Process Sealed, Termination Options

TERMINALS

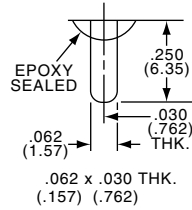
Z

Wire Lug



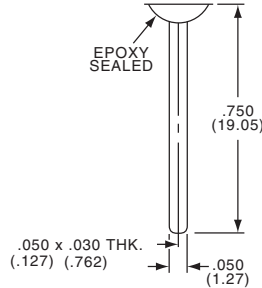
Q

Quick Connect



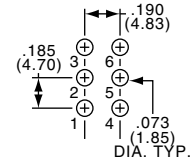
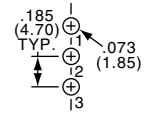
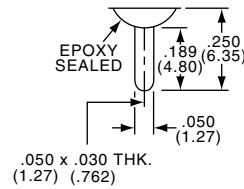
W

Wire Wrap



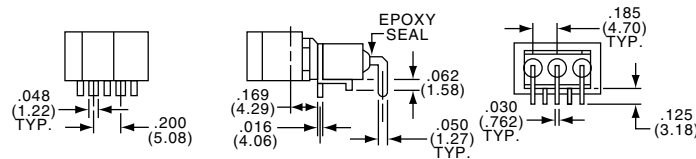
C

Printed Circuit



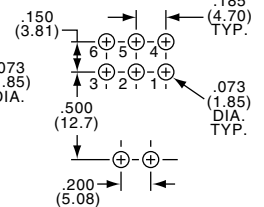
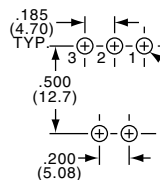
A

Right Angle Single Pole

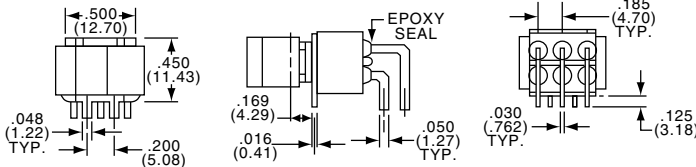


SINGLE POLE

DOUBLE POLE



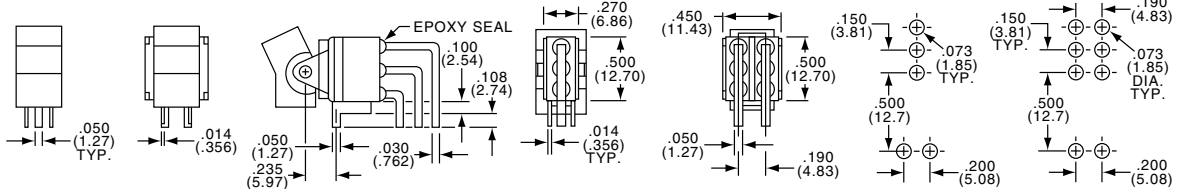
Right Angle Double Pole



NOTE: Terminal numbers viewed from top of P.C. board.

V

Vertical Right Angle



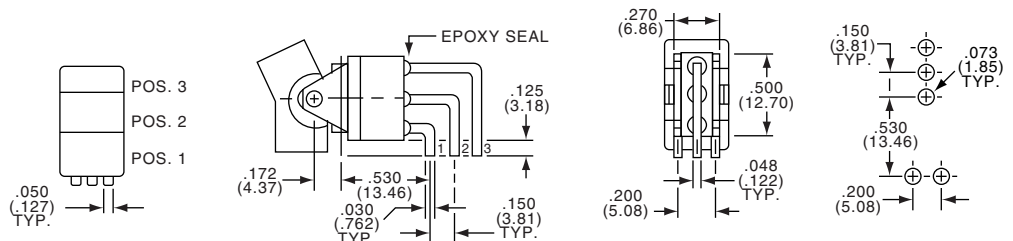
SINGLE POLE

DOUBLE POLE

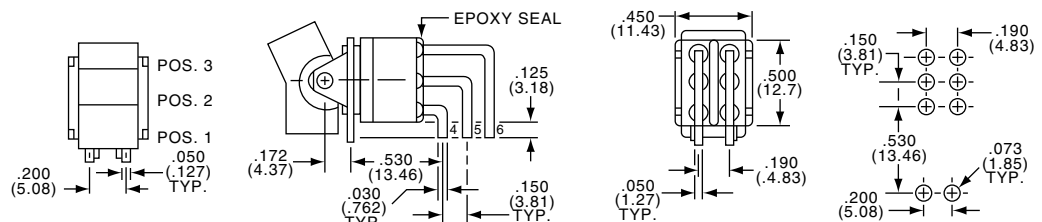
NOTE: Terminal numbers viewed from top of P.C. board.

V

Vertical Right Angle Single Pole



Vertical Right Angle Double Pole



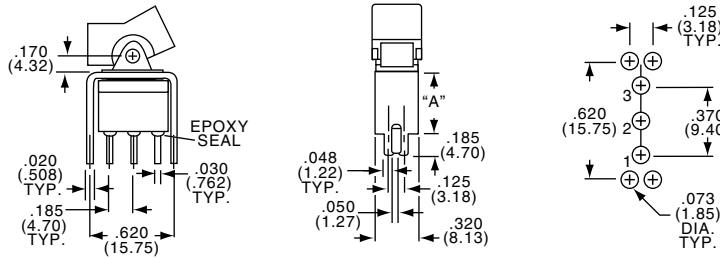
F

Gemini Series Rocker/Paddle Switches

Rocker/Paddle Switches, AE Series, Process Sealed, Options

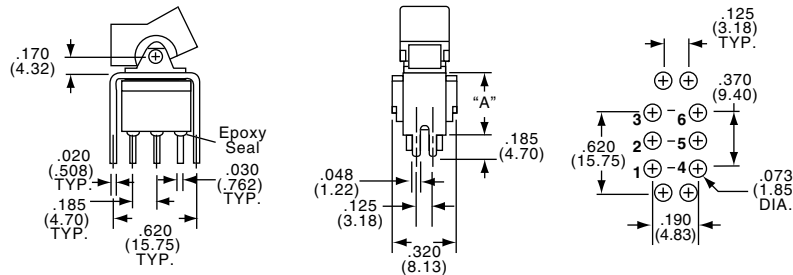


**Vertical Support Bracket
Single Pole**



| Option Code | Dim."A" |
|-------------|--------------|
| V3 | .460 (11.68) |
| V4 | .630 (16.00) |

**Vertical Support Bracket
Double Pole**



| Option Code | Dim."A" |
|-------------|--------------|
| V3 | .460 (11.68) |
| V4 | .630 (16.00) |

CONTACTS

B CONTACTS: Copper alloy with gold plate, welded button.
 TERMINALS: Copper alloy with gold plate.
 ELECTRICAL RATING: 0.4VA @ 20 VAC/DC.

Q CONTACTS: Copper alloy with silver, welded button.
 TERMINALS: Copper alloy with tin/lead plate.
 ELECTRICAL RATING: 5 amps @ 125 VAC, 2 amps @ 250 VAC, 2 amps @ 30 VDC.
 UL/CSA RATING: 5A @ 125 VAC, 3 @ 250 VAC (Specify "UL" option code)

G CONTACTS: Copper alloy with gold plate over silver, welded button.
 TERMINALS: Copper alloy with gold plate.
 ELECTRICAL RATING: 0.4 VA @ 20 VAC/DC or 5 amps @ 125 VAC, 2 amps @ 250 VAC, 2 amps @ 30 VDC.
 Note: This contact option can be used for low-level or power switching. If level is above 0.4 VA @ 20 VAC/DC, the switch is rendered usable only for power switching due to arc-removal of gold plate.
 UL/CSA RATING: 5A @ 125 VAC, 3 @ 250 VAC (Specify "UL" option code)

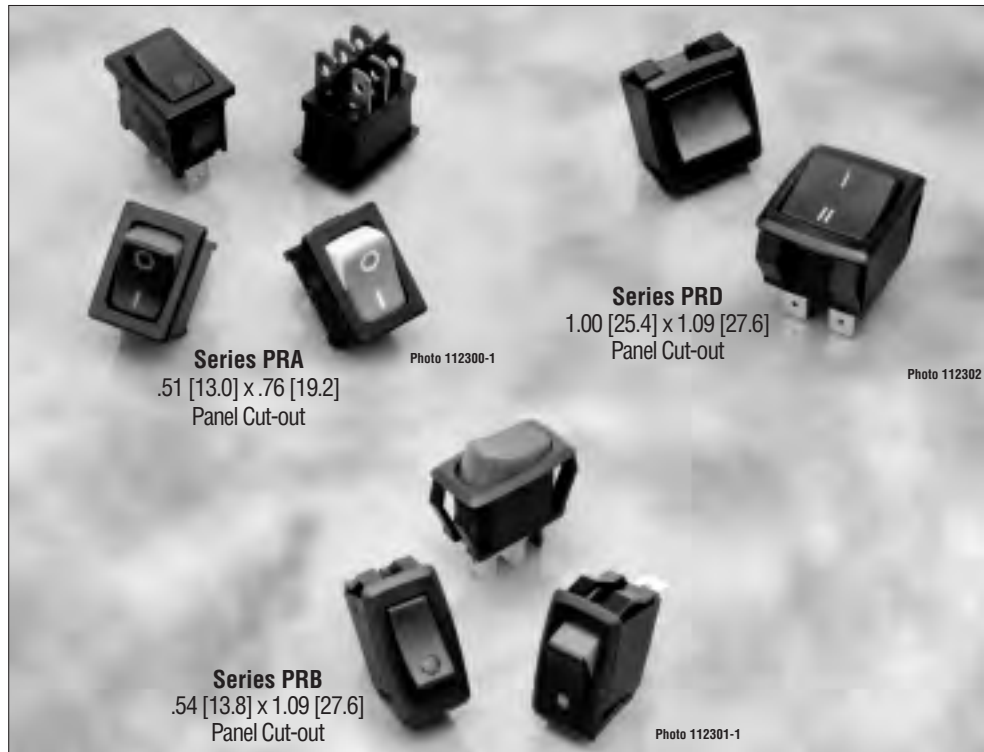
F

Gemini Series Rocker/Paddle Switches

Series PRA, PRB and PRD

Product Facts

- Full line of single or double-pole power rocker switches for three different industry compatible panel cut-out sizes
- Easy to install snap-in mounting
- Dust resistant
- Dual color rocker option
- Full-illuminated rocker option
- LED or neon window illuminated option
- Wide range of marking options and functions available
- Solder lugs or .187 & .250 FASTON Tab terminals
- Cost competitive



Electrical Characteristics

Current: 16A@125 VAC 1/3 HP
10A@250 VAC 1/2 HP
PRA Series Double Pole:
7A@125 VAC
6A@250 VAC
PRA Series Single Pole:
6 (3)A 250V ~ 10A 125V ~
μ 25T85
Inrush Current: 50A/3msec
(capacitive load)
Contact Resistance (initial): <50m Ohms
Dielectric Strength (initial): >1000 VAC, 1 min.
Insulation Resistance (initial): >100Mohms min.
Electrical Life Endurance:
>6000 operations
Voltage drop <100 mV

Mechanical Characteristics

Operating Life Endurance: up to >100,000 operations
Actuating Force:
Series PRA 150g min., 650g max.
Series PRB 300g min., 700g max.
Series PRD 850g min., 1250g max.

Materials and Finish

Housing: Nylon 6/6 UL 94V-2
Rocker: Nylon 6/6 UL 94V-2 or Polycarbonate UL 94V-2
Contact: Silver-tin Oxide
Terminals, Active Contactor: Silver plated copper alloy
Plunger: Nickel plated copper alloy
Spring: Steel Wire
Standards & Specs
UL Approved - File No. E46765
ENEC/VDE approval - File No. 40006757 (PRA Single Pole Series only)

.51 [13.0] x .76 [19.2] Panel Cutout



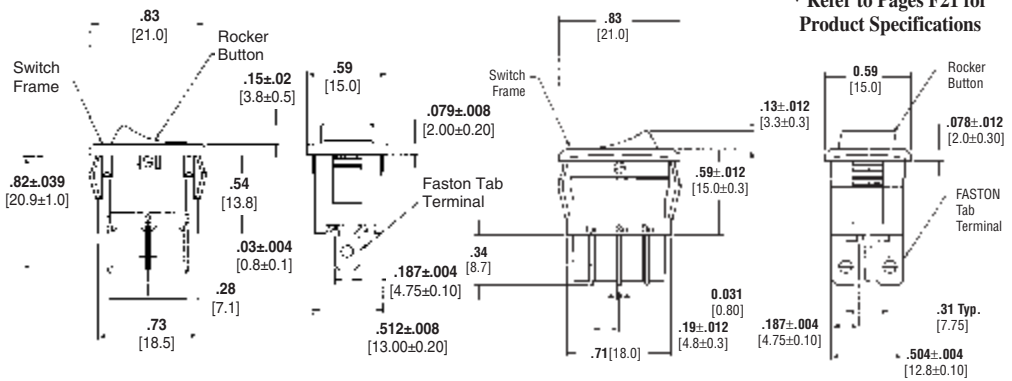
Product Facts

- Easy to install snap-in mounting
- Dust resistant
- Dual color rocker option
- Full-illuminated rocker option
- LED or neon window illuminated option
- Wide range of marking options and functions available
- Solder lugs or .187 FASTON Tab terminals
- Cost competitive

Single-Pole, Lamp Illuminated or Non-Illuminated

Double-Pole, Non-Illuminated

* Refer to Pages F21 for Product Specifications



Alcoswitch Part Number

| | |
|---|---|
| <p>Switch Type PR Power Rockers</p> <p>Panel Cut-out Size A .51 [13.0] x .76 [19.2]</p> <p>Number of Poles S Single Pole D Double Pole</p> <p>Switch Functions A1 ON-OFF; opaque, single-color rocker button A2 ON-OFF; opaque, dual-color rocker button A3 (ON)-OFF; opaque, single-color rocker button B1 ON-OFF; transparent, lamp-illuminated rocker button (100-125 V lamp voltage) B2 ON-OFF; opaque, with lamp window, lamp-illuminated rocker button (100-125 V lamp voltage) B3 ON-OFF; transparent, lamp-illuminated rocker button (200-250 V lamp voltage) B4 ON-OFF; opaque, with lamp window, lamp-illuminated rocker button (200-250 V lamp voltage) C1 ON-OFF; opaque, with LED window, LED-illuminated rocker button D1 ON-ON; opaque, single-color rocker button D2 ON-(ON); opaque, single-color rocker button D3 ON-OFF-ON; opaque, single-color rocker button D4 ON-OFF-(ON); opaque, single-color rocker button</p> <p>Power Rating 07 7A @ 125 VAC; 6A @ 250 VAC (Double-pole only) 16 16A, 1/3 Hp @ 125 VAC (Single-pole only) 10A, 1/2 Hp @ 250 VAC 10A 125V- 6 (3)A 250V- μ 25T85</p> | <p>PR A X XX - XX X - X X X X X X</p> <p>Legend Text Color 0 Not Applicable R Red B Black W White G Green</p> <p>Legend Text Pattern 0 Not Applicable E A Dot F -- o = B o - G o C o H ON OFF D - = J o -</p> <p>Secondary Rocker Color, Window Color, or LED Color 0 Not Applicable C Clear A Amber G Green B Black R Red W White</p> <p>Rocker Color A Amber G Green B Black R Red C Clear W White</p> <p>Frame Color B Black W White</p> <p>Terminal Type F FASTON Tab L Solder Lug</p> |
|---|---|

Part No.

| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch |
|------------------|------------------|------------------|------------------|------------------|------------------|
| 1571076-9 | PRASA1-16F-BB000 | 1571079-7 | PRASD3-16F-BB000 | 1571084-5 | PRADA1-07F-BR0BW |
| 1-1571076-0 | PRASA1-16F-BB0BW | 1571079-8 | PRASD3-16F-BB0FW | 1571086-1 | PRADD1-07F-BB000 |
| 1-1571076-1 | PRASA1-16F-BB0CW | 1571079-9 | PRASD3-16F-BB0GW | 1571086-2 | PRADD1-07F-BB0DW |
| 1-1571076-2 | PRASA1-16L-BB000 | 1-1571079-0 | PRASD2-16F-BB000 | 1571086-3 | PRADD1-07F-BB0EW |
| 1-1571076-3 | PRASA1-16L-BB0BW | 1-1571079-1 | PRASD2-16F-BB0DW | 1571086-4 | PRADD3-07F-BB000 |
| 1-1571076-4 | PRASA1-16L-BB0CW | 1-1571079-2 | PRASD2-16F-BB0EW | 1571086-5 | PRADD3-07F-BB0FW |
| 1-1571076-5 | PRASA1-16F-BR000 | 1-1571079-3 | PRASD4-16F-BB000 | 1571086-6 | PRADD3-07F-BB0GW |
| 1-1571076-6 | PRASA1-16L-BR000 | 1-1571079-4 | PRASD4-16F-BB0FW | 1571086-7 | PRADD2-07F-BB000 |
| 1-1571076-7 | PRASA2-16F-BBRBR | 1-1571079-5 | PRASD4-16F-BB0GW | 1571086-8 | PRADD2-07F-BB0DW |
| 2-1571076-0 | PRASA1-16F-BB0HW | 1571083-2 | PRASC1-16F-BBR00 | 1571086-9 | PRADD2-07F-BB0EW |
| 2-1571076-1 | PRASA3-16F-BB0JW | 1571084-1 | PRADA1-07F-BB000 | 1-1571086-0 | PRADD4-07F-BB000 |
| 1571078-2 | PRASB1-16F-BR000 | 1571084-2 | PRADA1-07F-BB0BW | 1-1571086-1 | PRADD4-07F-BB0FW |
| 1571078-4 | PRASB2-16F-BBR00 | 1571084-3 | PRADA1-07F-BB0CW | 1-1571086-2 | PRADD4-07F-BB0GW |
| 1571079-4 | PRASD1-16F-BB000 | 1571084-4 | PRADA1-07F-BR000 | | |
| 1571079-5 | PRASD1-16F-BB0DW | | | | |
| 1571079-6 | PRASD1-16F-BB0EW | | | | |

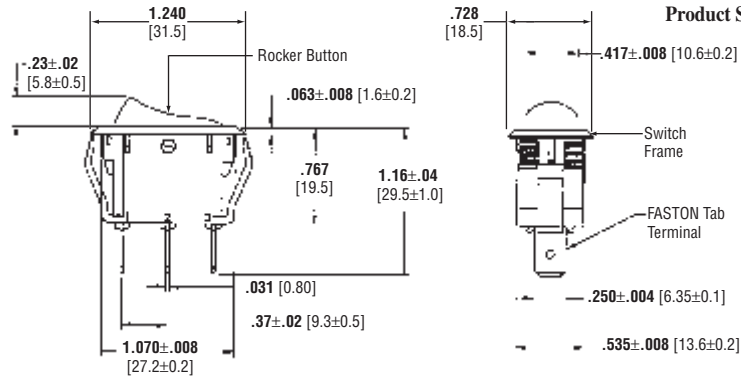
PVC Waterproof Cover: 1571786-1

.54 [13.8] x 1.09 [27.6] Panel Cutout



Product Facts

- Easy to install snap-in mounting
- Dual color rocker option
- Full-illuminated rocker option
- Lamp window illuminated option
- Wide range of marking options and functions available
- Solder lugs or .250 FASTON Tab terminals
- Cost competitive



* Refer to Pages F21 for Product Specifications

Alcoswitch Part Number

PR B S XX - XX X - X X X X X X

Switch Type
 PR Power Rockers

Panel Cut-out Size
 B .54 [13.8] x 1.09 [27.6]

Number of Poles
 S Single Pole

Switch Functions
 A1 ON-OFF; opaque, single-color rocker button
 A2 ON-OFF; opaque, dual-color rocker button
 B1 ON-OFF; transparent, lamp-illuminated rocker button (100-125 V lamp voltage)
 B3 ON-OFF; transparent, lamp-illuminated rocker button (200-250 V lamp voltage)
 C1 ON-OFF; opaque, with LED window, LED-illuminated rocker button
 D1 ON-ON; opaque, single-color rocker button
 D3 ON-OFF-ON; opaque, single-color rocker button

Power Rating
 16 16A, 1/3 Hp @ 125 VAC
 10A, 1/2 Hp @ 250 VAC

Terminal Type
 F FASTON Tab
 L Solder Lug

Legend Text Color
 0 Not Applicable R Red
 B Black W White
 G Green

Legend Text Pattern
 0 Not Applicable E |||
 A Dot F -- o =
 B o -- G | o ||
 C o | H ON OFF
 D -- =

Secondary Rocker Color, Window Color, or LED Color
 0 Not Applicable C Clear
 A Amber G Green
 B Black R Red
 C Clear W White

Rocker Color
 A Amber G Green
 B Black R Red
 C Clear W White

Frame Color
 B Black
 W White

Part No.

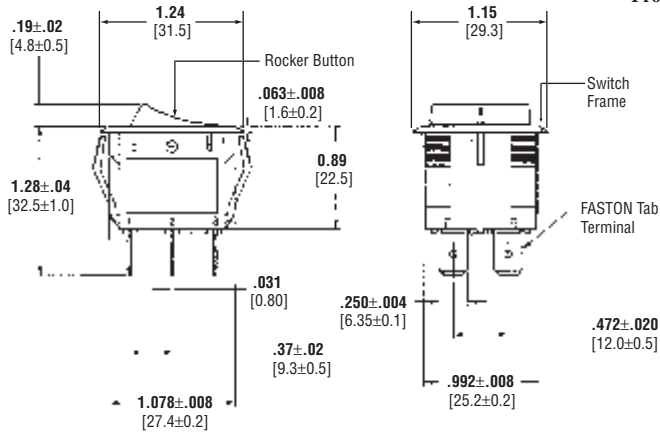
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch |
|------------------|------------------|------------------|------------------|
| 1571087-1 | PRBSC1-16F-BBR00 | 1571092-1 | PRBSB1-16F-BR000 |
| 1571087-2 | PRBSC1-16L-BBR00 | 1571092-2 | PRBSB1-16F-BR0BW |
| 1571091-1 | PRBSA1-16F-BB000 | 1571092-3 | PRBSB1-16F-BA000 |
| 1571091-2 | PRBSA1-16F-BB0BW | 1571092-4 | PRBSB1-16F-BC000 |
| 1571091-3 | PRBSA1-16F-BB0CW | 1571094-1 | PRBSD1-16F-BB000 |
| 1571091-4 | PRBSA1-16L-BB000 | 1571094-2 | PRBSD1-16F-BB0DW |
| 1571091-5 | PRBSA1-16L-BB0BW | 1571094-3 | PRBSD1-16F-BB0EW |
| 1571091-6 | PRBSA1-16L-BB0CW | 1571094-4 | PRBSD3-16F-BB000 |
| 1571091-7 | PRBSA1-16F-BR000 | 1571094-5 | PRBSD3-16F-BB0FW |
| 1571091-8 | PRBSA1-16L-BR000 | 1571094-6 | PRBSD3-16F-BB0GW |
| 1571091-9 | PRBSA1-16F-BB0HW | 1571094-7 | PRBSD3-16F-BW000 |
| 1-1571091-0 | PRBSA1-16F-BR0HW | | |
| 1-1571091-1 | PRBSA1-16F-BW000 | | |
| 1-1571091-2 | PRBSA1-16F-BW0HB | | |

1.00 [25.4] x 1.09 [27.6] Panel Cutout



Product Facts

- Easy to install snap-in mounting
- Full illuminated rocker option
- Wide range of marking options and functions available
- FASTON .250 Tab terminals
- Cost competitive



* Refer to Pages F21 for Product Specifications

Alcoswitch Part Number

| | | |
|---|---------------------------------------|--|
| <p>Switch Type PR Power Rockers</p> <p>Panel Cut-out Size B 1.00 [25.4] x 1.09 [27.6]</p> <p>Number of Poles S Double Pole</p> <p>Switch Functions A1 ON-OFF; opaque, single-color rocker button B1 ON-OFF; transparent, lamp-illuminated rocker button (100-125 V lamp voltage) B3 ON-OFF; transparent, lamp-illuminated rocker button (200-250 V lamp voltage) D1 ON-ON; opaque, single-color rocker button D3 ON-OFF-ON; opaque, single-color rocker button</p> <p>Power Rating 16 16A, 1/3 Hp @ 125 VAC 10A, 1/2 Hp @ 250 VAC</p> <p>Terminal Type F FASTON Tab</p> | <p>PR D D XX - XX X - X X X X X X</p> | <p>Legend Text Color 0 Not Applicable R Red B Black W White G Green</p> <p>Legend Text Pattern 0 Not Applicable E I ll A Dot F - o = B o -- G l o ll C o l H ON OFF D - =</p> <p>Secondary Rocker Color, Window Color, or LED Color 0 Not Applicable</p> <p>Rocker Color A Amber G Green B Black R Red C Clear W White</p> <p>Frame Color B Black W White</p> |
|---|---------------------------------------|--|

Part No.

| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch |
|------------------|------------------|------------------|------------------|
| 1571103-1 | PRDDA1-16F-BB000 | 1571112-1 | PRddb1-16F-BR000 |
| 1571103-2 | PRDDA1-16F-BB0BW | 1571112-2 | PRddb1-16F-BA000 |
| 1571103-3 | PRDDA1-16F-BB0CW | 1571113-1 | PRddd1-16F-BB000 |
| 1571103-4 | PRDDA1-16F-BR000 | 1571113-2 | PRddd1-16F-BB0DW |
| 1571103-5 | PRDDA1-16F-BB0HW | 1571113-3 | PRddd1-16F-BB0EW |
| 1571103-6 | PRDDA1-16F-BR0HW | 1571113-4 | PRddd3-16F-BB000 |
| 1571113-7 | PRddd3-16F-BR000 | 1571113-5 | PRddd3-16F-BB0FW |
| | | 1571113-6 | PRddd3-16F-BB0GW |



MRC Series - Page G3



MRJ Series - Page G4



MRJE Series - Page G4



MRJB Series - Page G4



6000 Series - Page G5



3100 Series - page G9

FORSTEN

G

Rotary Switches

Rotary Switches Part Number Index

| | |
|---------------|-----|
| MRC110 | G3 |
| MRC110S | G3 |
| MRC25 | G3 |
| MRC25S | G3 |
| MRC33 | G3 |
| MRC33S | G3 |
| MRC42 | G3 |
| MRC42S | G3 |
| MRJ112..... | G4 |
| MRJ26 | G4 |
| MRJ34 | G4 |
| MRJ43 | G4 |
| MRJB112 | G4 |
| MRJB26 | G4 |
| MRJB34 | G4 |
| MRJB43 | G4 |
| MRJE112 | G4 |
| MRJE26 | G4 |
| MRJE34 | G4 |
| MRJE43 | G4 |
| 435005 | G6 |
| 435123 | G6 |
| 435128 | G6 |
| 435167 | G7 |
| 435174 | G6 |
| 435697 | G7 |
| 435984 | G10 |
| 435986 | G10 |
| 435987 | G10 |
| 436022 | G10 |
| 436024 | G10 |
| 436028 | G10 |
| 436037 | G10 |
| 436287 | G11 |

G

Rotary Switches

Rotary Switches, 500m Amp, Adjustable Stop, 36° Throw

MATERIAL SPECIFICATIONS:

ContactsSilver
 Case MaterialAluminum
 Actuator MaterialBrass
 Terminals/Fixed Contacts.....Silver plated brass
 Terminal SealInsert molded, DAP bas

ENVIRONMENTAL SPECIFICATIONS:

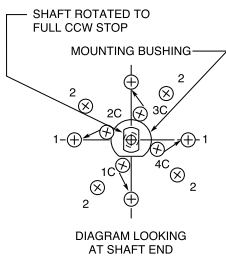
Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
 Storage Temperature-4°F to +212°F (-20°C to +100°C)
 Solder Heat Resistance.....Manual: 270°C for 3 seconds
 Wave: 245°C for 3 seconds

TYPICAL PERFORMANCE CHARACTERISTICS:

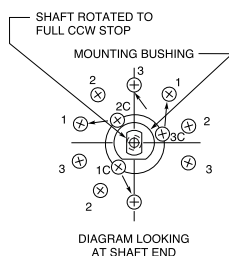
Contact Rating500 Milliamps @ 125 VAC or
 28 VDC resistive
 Initial Contact Resistance.....50 Milliohms max.
 Contact Timing.....Non-shorting
 Insulation Resistance100 Megohms min.
 Dielectric Strength1,000 Volts RMS @ sea level
 Rotation Torque14 Inch ounce max.
 High Torque Bushing ShoulderNickle plated brass
 Plunger/Actuator Travel.....36°
 Life ExpectancyUp to 10,000 Cycles @ full contact
 rating
 Up to 25,000 Cycles @ 150 mA @
 125 VAC or 250 mA @ 28 VDC

NOTICE: Set stop positions by presetting external pin plate provided.

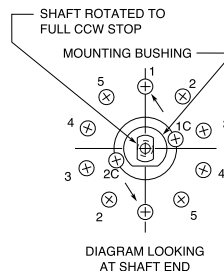
4 Pole, 2 Positions



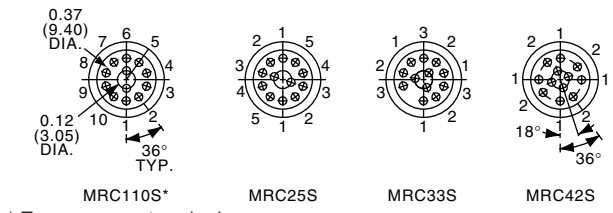
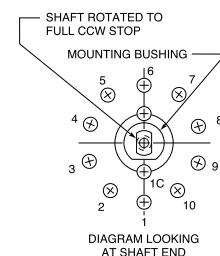
3 Pole, 2-3 Positions, Adjustable



2 Pole, 2-5 Positions, Adjustable

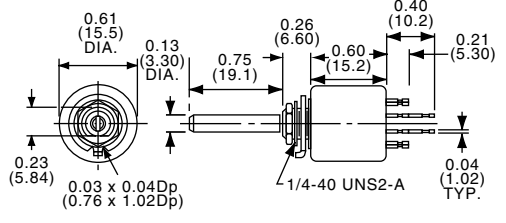


1 Pole, 2-10 Positions, Adjustable



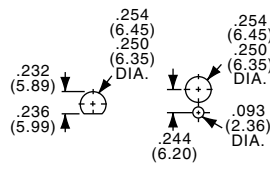
* Two common terminals are internally shorted. Use either one.

36° ANGLE OF THROW



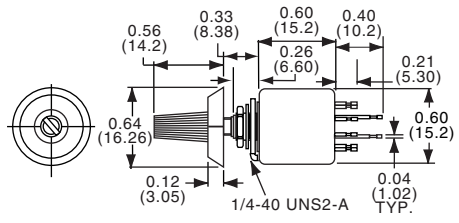
MRC33S

| Part Number | | No. Poles | Adjustable Positions |
|------------------|------------|-----------|----------------------|
| Tyco Electronics | Alcoswitch | | |
| 1437629-2 | MRC110S | 1 Pole | 2 to 10 Positions |
| 1437629-4 | MRC25S | 2 Poles | 2 to 5 Positions |
| 1437629-6 | MRC33S | 3 Poles | 2 to 3 Positions |
| 1437629-8 | MRC42S | 4 Poles | 2 Positions (fixed) |

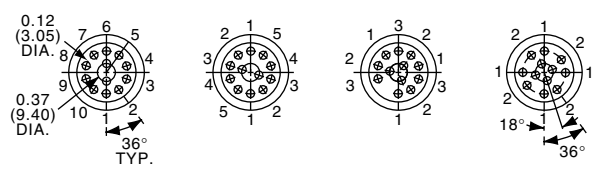


* Two common terminals are internally shorted. Use either one.

36° ANGLE OF THROW



KNOB NOT SOLD SEPARATELY



MRC25

| Part Number | | No. Poles | Adjustable Positions |
|------------------|------------|-----------|----------------------|
| Tyco Electronics | Alcoswitch | | |
| 1437629-1 | MRC110 | 1 Pole | 2 to 10 Positions |
| 1437629-3 | MRC25 | 2 Poles | 2 to 5 Positions |
| 1437629-5 | MRC33 | 3 Poles | 2 to 3 Positions |
| 1437629-7 | MRC42 | 4 Poles | 2 Positions (fixed) |



MRC Series

Rotary Switches, 6000 Series

Alcoswitch 6000 Series Rotary Switches are used in programming electrical and mechanical circuits in machine tools, test equipment, and input data terminals. These manually operated switches are specifically designed to be mounted on a pc board and offer output capabilities which include: 8-position binary-coded octal (BC), 10-position binary-coded decimal (BCD), 16-position hexadecimal plus 10- and 16-position single pole decimal. All switches feature a small diameter and very low profile.

In addition to varied output capabilities, these versatile Alcoswitch switches can also be supplied in three different styles, allowing you to select the operation method best suited to your specific application. One version incorporates a slot which accepts a screwdriver, coin or other similar device. This particular style permits operation of the switch without sacrificing overall height. Its height of .220 [5.59] above the pc board is no greater than the usual board-mounted discrete components. The other two versions have either a bar-type knob or thumbwheel for their operation. All three styles can be rotated bidirectionally.

Rugged construction, positive detent action contacts plus large, readable characters are additional features of the Alcoswitch 6000 Series PC Board Rotary Switches. All these features, coupled with a fully enclosed design for better environmental protection, provide excellent electrical and mechanical performance.

PERFORMANCE CHARACTERISTICS

- Current/Voltage Rating**— Signal application only.
- Dielectric Breakdown Voltage**— 500 VDC min.
- Insulation Resistance**— 1 x 10⁸ ohms
- Initial Contact Resistance**— 25 milliohms (at 50 millivolts, 100 milliamperes) closed circuit
- Circuit Capacitance**— 5 picofarads (at 100 KHz)
- Durability**— 1000 cycles
- Operating Torque**— 2 - 12 inch-ounces initial and after durability
- Temperature Rating**—
- Operating** — -18°C to +88°C
- Storage** — -45°C to +88°C
- Humidity**— Withstands an environment of +40°C and 95% RH for 96 hours

MATERIALS

- Contacts**— Phosphor bronze, gold over nickel plated
- Solder Tabs and Pins**—
- Coded Switches** — Beryllium copper, tin plated
- Single Pole Switches** — Brass, tin plated
- Structural Parts** — Thermoplastic

Technical Documents

- Product Specification**— 108-7514
- Instruction Sheet**— 408-07523
- Application Specification**— 114-7005

Product Facts

- n **Compact design** — small diameter, low profile switches are ideal for pc board mounting
- n **Wide choice of outputs:** 8-position binary-coded octal, 10-position binary-coded decimal, 16-position hexadecimal and 10- and 16-position single pole
- n **Versatile application** — styles include slotted, bar-type and thumbwheel versions for hand rotation
- n **Positive switching** — contacts have positive detent action
- n **All positions are easily identified** by large readable characters or dots
- n **Optimum reliability** — fully enclosed design protects contacts against contamination



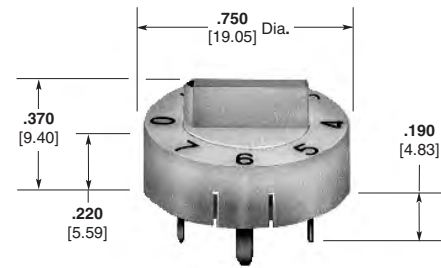
Rotary Switches, PC Mount, 8 or 10 Positions

| Switch Position | Common to: | | |
|-----------------|------------|---|---|
| | 1 | 2 | 3 |
| 0 | | | |
| 1 | • | | |
| 2 | | • | |
| 3 | • | • | |
| 4 | | | • |
| 5 | • | | • |
| 6 | | • | • |
| 7 | • | • | • |

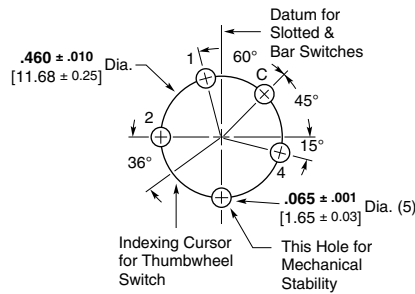


Screwdriver/Coin Actuated
Part No. 435174-1

**8-POSITION
BINARY CODED OCTAL (BCO)**

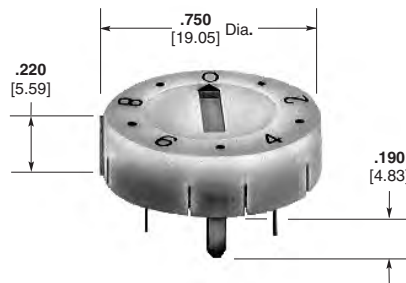


Bar-Type Knob
Part No. 1- 435174-1 (Shown)



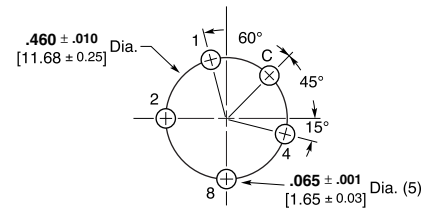
Recommended PC Board Hole Pattern
(Switch Side)

| Switch Position | Common to: | | | |
|-----------------|------------|---|---|---|
| | 1 | 2 | 4 | 8 |
| 0 | | | | |
| 1 | • | | | |
| 2 | | • | | |
| 3 | • | • | | |
| 4 | | | • | |
| 5 | • | | • | |
| 6 | | • | • | |
| 7 | • | • | • | |
| 8 | | | | • |
| 9 | • | | | • |

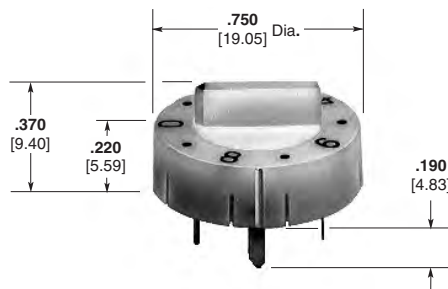


Screwdriver/Coin Actuated
Part No. 435005-1

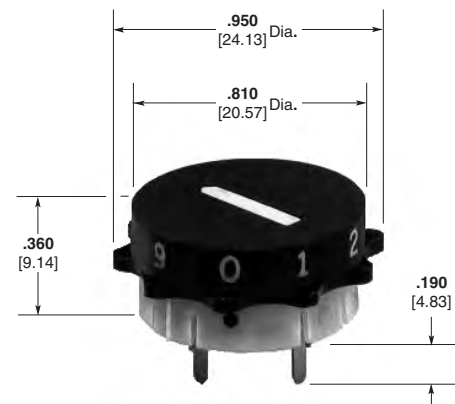
**10-POSITION
BINARY CODED DECIMAL (BCD)**



Recommended PC Board Hole Pattern
(Switch Side)



Bar-Type Knob
Part No. 435123-1



Thumbwheel
Part No. 435128-1

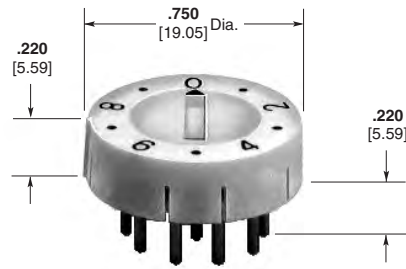
G

6000 Series

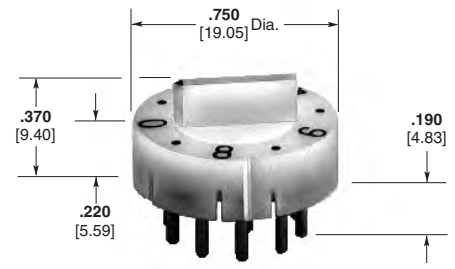
Rotary Switches, PC Mount, 10 or 16 Position

10-POSITION SINGLE POLE

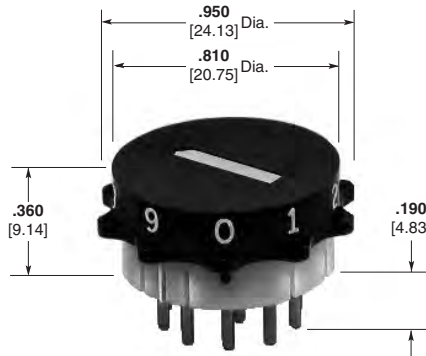
| Switch Position | Common to: |
|-----------------|---------------------|
| | 0 1 2 3 4 5 6 7 8 9 |
| 0 | • |
| 1 | • |
| 2 | • |
| 3 | • |
| 4 | • |
| 5 | • |
| 6 | • |
| 7 | • |
| 8 | • |
| 9 | • |



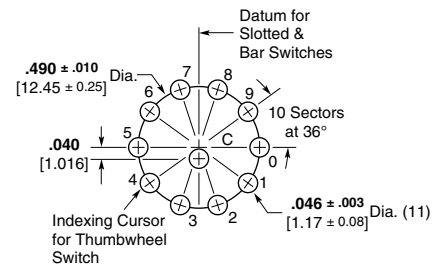
Screwdriver/Coin Actuated
Part No. 1-435097-1



Bar-Type Knob
Part No. 2-435097-1



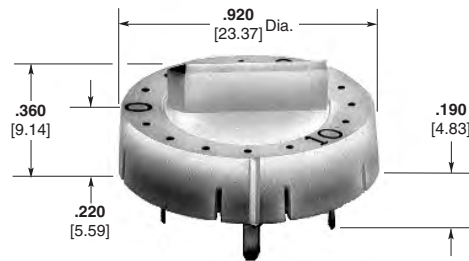
Thumbwheel
Part No. 435097-1 (Shown)
Part No. 435097-2 (With Numbers 1 - 10)



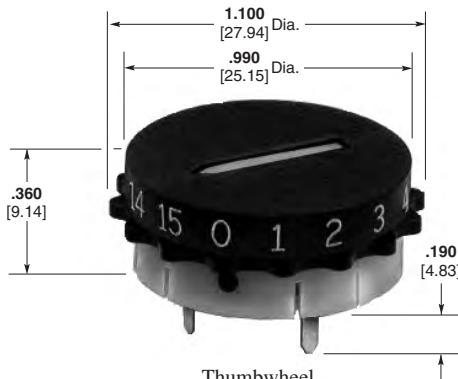
Recommended PC Board Hole Pattern
(Switch Side)

16-POSITION HEXADECIMAL

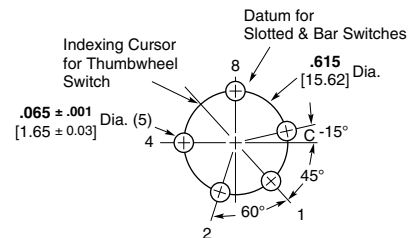
| Switch Position | Common to: |
|-----------------|------------|
| | 1 2 4 8 |
| 0 | |
| 1 | • |
| 2 | • |
| 3 | • |
| 4 | • |
| 5 | • |
| 6 | • |
| 7 | • |
| 8 | • |
| 9 | • |
| 10 | • |
| 11 | • |
| 12 | • |
| 13 | • |
| 14 | • |
| 15 | • |



Bar-Type Knob
Part No. 1-435167-1



Thumbwheel
Part No. 2-435167-1 (Shown)



Recommended PC Board Hole Pattern
(Switch Side)

G

6000 Series

3100 Series Rotary Switches

Alcoswitch Rotary Switches provide a highly reliable means of manually programming various types of electronic equipment. They are specifically designed for logic level circuitry, but are capable of controlling electrical circuits that operate at current ratings of 2 amperes, 115 VAC (nonswitching) and up to 125 milliamperes, 115 VAC (switching).

Positive detent action, with a quick make/break operation, is provided by durable stainless steel balls and springs as well as the detents which form an integral part of the housing. All contact surfaces are fully enclosed within the housing, thus greatly reducing operational failures due to dirty contacts. The contacts are made of phosphor bronze with gold-over-nickel plating.

Alcoswitch Rotary Switches can be supplied with a variety of options to afford complete application versatility and adaptability. Output codes include decimal, BCD and BCD complement with 10, 12, 16, 24 and 32 switching positions.

Interconnection of switches may be achieved by the use of AMPMODU receptacles. Stops supplied with the switches may be customer installed when it is desired to limit rotation to less than 360°.

PERFORMANCE CHARACTERISTICS

- Circuit Current Rating—**
- Nonswitching** — 2.0 amperes at 115 VAC max.
- Switching (Resistive Load)** — 125 milliamperes at 115 VAC max.
- Dielectric Withstanding Voltage—**
- 500 VDC
- Insulation Resistance—**
- 1 x 10⁸ ohms min. at 100 VDC
- Initial Contact Resistance—**
- 150 milliohms (input terminal to output terminal)
- Initial Operating Force—**
- 1/2 to 2 in.-lbs.
- Contact Life Expectancy—**
- 25,000 rotations at rated load
- Operating Temperature—**
- 18°C to +88°C

MATERIALS

- Housing—**
- Polyester, black
- Detent Ball and Spring—**
- Stainless steel
- Operating Shaft and Detent—**
- Thermoplastic, 94V-0 rated, black
- Printed Circuit Board—**
- Flame retardant, glass epoxy laminate, copper clad
- Contacts—**
- Phosphor bronze, gold-over-nickel plated
- Hardware—**
- Brass or corrosion resistant steel

TECHNICAL DOCUMENTS

- Product Specification—**
- 108-7518
- Instruction Sheet—**
- 408-07936

Product Facts

- **Code flexibility — switch output capabilities include decimal, BCD and BCD complement, and various other codes**
- **Positive switching — positive detent action of stainless steel detent balls and springs assures error-free operation**
- **Enclosed contacts — contact surfaces are better protected against dirt, dust and other environmental hazards**

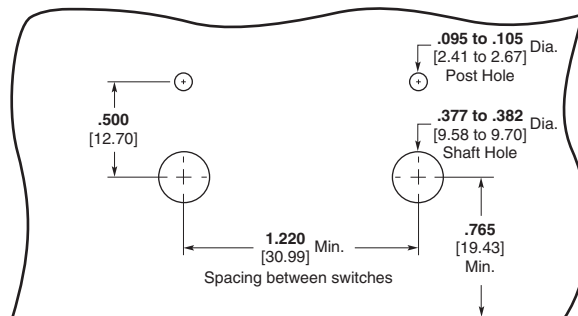
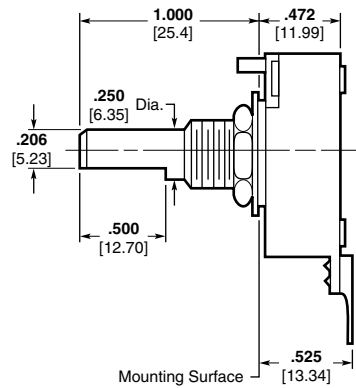
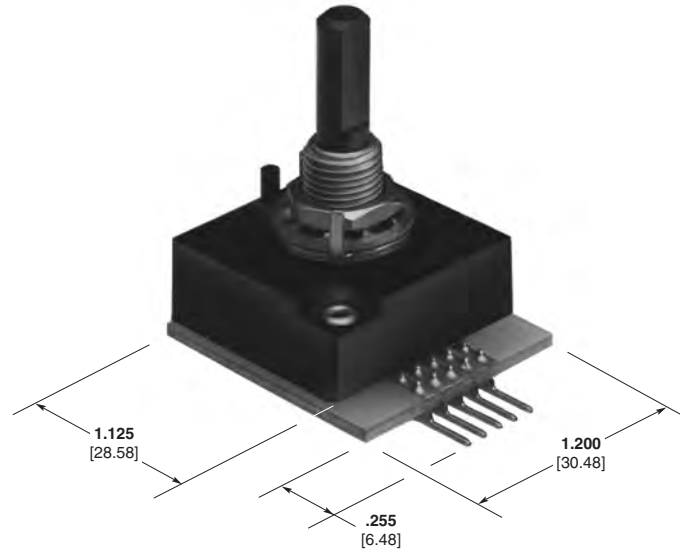


G

3100 Series

Rotary Switches, PC Mount, 10, 12 or 16 Position

10-, 12- AND 16-POSITION SWITCHES



Panel Cutout

Note: See Section K for knob selection.

Rotary Switches, PC Mount, 10, 12 or 16 Position

CODING



Part No.

| | | | | | |
|---|---|---|---|---|------------|
| 2 | 1 | C | 8 | 4 | 435984-1,7 |
| 8 | 2 | 4 | 1 | C | 436037-1 |
| 1 | 2 | C | 8 | 4 | 435986-1 |
| 2 | C | 1 | 8 | 4 | 436022-1 |
| C | 4 | 8 | 1 | 2 | 436024-1 |
| 8 | 2 | 4 | C | 1 | 435987-1 |

10-Position
36° Throw
BCD

Part No. 435984-1 (Shown)
Part No. 435984-7 (Right Angle)

| Switch Position | Common to: | | | |
|-----------------|------------|---|---|---|
| | 1 | 2 | 4 | 8 |
| 0 | | | | |
| 1 | ● | | | |
| 2 | | ● | | |
| 3 | ● | ● | | |
| 4 | | | ● | |
| 5 | ● | | ● | |
| 6 | | ● | ● | |
| 7 | ● | ● | ● | |
| 8 | | | | ● |
| 9 | ● | | | ● |

12-Position
30° Throw
BCD

Part No. 436037-1

| Switch Position | Common to: | | | |
|-----------------|------------|---|---|---|
| | 1 | 2 | 4 | 8 |
| 0 | | | | |
| 1 | ● | | | |
| 2 | | ● | | |
| 3 | ● | ● | | |
| 4 | | | ● | |
| 5 | ● | | ● | |
| 6 | | ● | ● | |
| 7 | ● | ● | ● | |
| 8 | | | | ● |
| 9 | ● | | | ● |
| 10 | | ● | | ● |
| 11 | ● | ● | | ● |

16-Position
22½° Throw
Hexadecimal

Part No. 435986-1

| Switch Position | Common to: | | | |
|-----------------|------------|---|---|---|
| | 1 | 2 | 4 | 8 |
| 0 | | | | |
| 1 | ● | | | |
| 2 | | ● | | |
| 3 | ● | ● | | |
| 4 | | | ● | |
| 5 | ● | | ● | |
| 6 | | ● | ● | |
| 7 | ● | ● | ● | |
| 8 | | | | ● |
| 9 | ● | | | ● |
| 10 | | ● | | ● |
| 11 | ● | ● | | ● |
| 12 | | | ● | ● |
| 13 | ● | ● | ● | |
| 14 | | ● | ● | ● |
| 15 | ● | ● | ● | ● |



C 16 2 4 1 8

10-Position
36° Throw
BCD Complement
Part No. 436022-1

| Switch Position | Common to: | | | |
|-----------------|------------|---|---|---|
| | 1 | 2 | 4 | 8 |
| 0 | ● | ● | ● | ● |
| 1 | | ● | ● | ● |
| 2 | ● | | ● | ● |
| 3 | | | ● | ● |
| 4 | ● | ● | | ● |
| 5 | | ● | | ● |
| 6 | ● | | | ● |
| 7 | | | | ● |
| 8 | ● | ● | ● | |
| 9 | | ● | ● | |

12-Position
30° Throw
BCD Complement
Part No. 436024-1

| Switch Position | Common to: | | | |
|-----------------|------------|---|---|---|
| | 1 | 2 | 4 | 8 |
| 0 | ● | ● | ● | ● |
| 1 | | ● | ● | ● |
| 2 | ● | | ● | ● |
| 3 | | | ● | ● |
| 4 | ● | ● | | ● |
| 5 | | ● | | ● |
| 6 | ● | | | ● |
| 7 | | | | ● |
| 8 | ● | ● | ● | |
| 9 | | ● | ● | |
| 10 | ● | | ● | |
| 11 | | | | ● |

16-Position
22½° Throw
HEX Complement
Part No. 435987-1

| Switch Position | Common to: | | | |
|-----------------|------------|---|---|---|
| | 1 | 2 | 4 | 8 |
| 0 | ● | ● | ● | ● |
| 1 | | ● | ● | ● |
| 2 | ● | | ● | ● |
| 3 | | | ● | ● |
| 4 | ● | ● | | ● |
| 5 | | ● | | ● |
| 6 | ● | | | ● |
| 7 | | | | ● |
| 8 | ● | ● | ● | |
| 9 | | ● | ● | |
| 10 | ● | | ● | |
| 11 | | | | ● |
| 12 | ● | ● | | |
| 13 | | | ● | |
| 14 | ● | | | |
| 15 | | | | |

24-Position
15° Throw BCD
Part No. 436028-1

| Switch Position | Common to: | | | |
|-----------------|------------|---|---|------|
| | 1 | 2 | 4 | 8 16 |
| 0 | | | | |
| 1 | ● | | | |
| 2 | | ● | | |
| 3 | ● | ● | | |
| 4 | | | ● | |
| 5 | ● | | ● | |
| 6 | | ● | ● | |
| 7 | ● | ● | ● | |
| 8 | | | | ● |
| 9 | ● | | | ● |
| 10 | | ● | | ● |
| 11 | ● | ● | | ● |
| 12 | | | ● | ● |
| 13 | ● | ● | ● | |
| 14 | | ● | ● | ● |
| 15 | ● | ● | ● | ● |
| 16 | | | | ● |
| 17 | ● | | | ● |
| 18 | | ● | | ● |
| 19 | ● | ● | | ● |
| 20 | | | ● | ● |
| 21 | ● | ● | ● | ● |
| 22 | | ● | ● | ● |
| 23 | ● | ● | ● | ● |

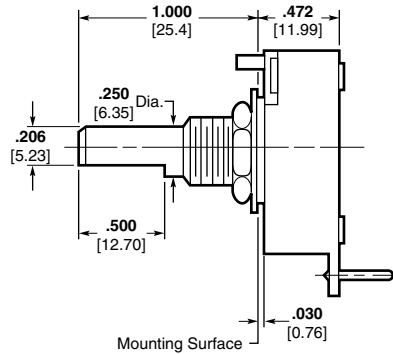
Note: See Section K for knob selection.

Rotary Switches, PC Mount, 32 Position

32-POSITION
11¼° THROW BCD
PART NO. 436287-1



| Switch Position | Common to: | | | | |
|-----------------|------------|---|---|---|----|
| | 1 | 2 | 4 | 8 | 16 |
| 0 | | | | | |
| 1 | • | | | | |
| 2 | | • | | | |
| 3 | • | • | | | |
| 4 | | | • | | |
| 5 | • | | • | | |
| 6 | | • | • | | |
| 7 | • | • | • | | |
| 8 | | | | • | |
| 9 | • | | | • | |
| 10 | | • | | • | |
| 11 | • | • | | • | |
| 12 | | | • | • | |
| 13 | • | • | • | | |
| 14 | | • | • | • | |
| 15 | • | • | • | • | |
| 16 | | | | | • |
| 17 | • | | | | • |
| 18 | | • | | | • |
| 19 | • | • | | | • |
| 20 | | | • | | • |
| 21 | • | | • | | • |
| 22 | | • | • | | • |
| 23 | • | • | • | | • |
| 24 | | | | • | • |
| 25 | • | | | • | • |
| 26 | | • | | • | • |
| 27 | • | • | • | | • |
| 28 | | | • | • | • |
| 29 | • | | • | • | • |
| 30 | | • | • | • | • |
| 31 | • | • | • | • | • |



Panel Cutout

Note: See Section K for knob selection.

Engineering Notes



G

Engineering Notes



2SWK Series - Page H2



SKF Series - Page H4



SKT Series - Page H3



SWK Series - Page H5

KEYLOCK

Keylock Part Number Index

| | | | |
|--------------------|----|--------------------|----|
| 2SKF131AEL01 | H4 | SKT132AEL01 | H3 |
| 2SKF132AEL01 | H4 | SKT132GAEL01 | H3 |
| 2SKF133AEL01 | H4 | SKT331AEL01 | H3 |
| 2SKF231AEL01 | H4 | SKT331GAEL01 | H3 |
| 2SWK131AL101 | H2 | SKT332AEL01 | H3 |
| 2SWK132AL101 | H2 | SKT332GAEL01 | H3 |
| 2SWK231AL101 | H2 | SWK12 | H5 |
| SKF1323AEL01 | H4 | SWK121F315 | H5 |
| SKT13 | H3 | SWK123F315 | H5 |
| SKT131AEL01 | H3 | SWK12F315 | H5 |
| SKT131GAEL01 | H3 | SWK12KF315 | H5 |
| SKT1323AEL01 | H3 | SWK1323AL101 | H2 |

Key Switches, Medium Security

MATERIAL SPECIFICATIONS

ContactsSilver
 Cylinder Material.....Zinc alloy
 Lock BodyZinc alloy
 Key MaterialBrass
 Terminals/Fixed ContactsScrew type
 Beveled Frame Finish302 Stainless steel

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating1A at 120 VAC resistive
 Initial Contact Resistance50 Milliohms max.
 Contact Timing.....Non-shorting
 Plunger/Actuator Travel90°
 Key Changes25 Standard
 Life ExpectancyUp to 10,000 Cycles

ENVIRONMENTAL SPECIFICATIONS

Solder Heat ResistanceSee page M3-4

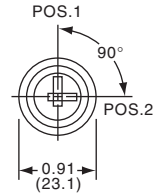
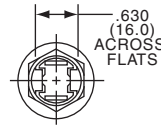
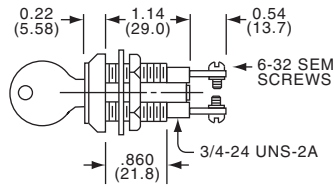
NOTE: All Keylocks are supplied with 2 brass keys on a ring.

SPST

5 Disc Tumblers



2SWK131



| Part Number | | | | | | Part Number | | | | | |
|------------------|--------------|------|--------|--------|-----------------|------------------|--------------|--|--------|--------|------------|
| Tyco Electronics | Alcoswitch | Type | Pos. 1 | Pos. 2 | Remove Key | Tyco Electronics | Alcoswitch | Type | Pos. 1 | Pos. 2 | Remove Key |
| 1-1437597-7 | 2SWK131AL101 | SPST | Off | On | Position 1 | 2-1437597-7 | 2SWK231AL101 | SPST | Off | (On) | Position 1 |
| 2-1437597-3 | 2SWK132AL101 | SPST | Off | On | Position 1 or 2 | 4-1437597-3 | SWK1323AL101 | Spare Key for SWK Series (On) indicates momentary position. | | | |

Medium Security Key Switch

MATERIAL SPECIFICATIONS

ContactsSilver
 Cylinder MaterialZinc alloy
 Lock BodyZinc alloy
 Key MaterialBrass
 Terminals/Fixed Contacts ...Screw type
 Beveled Frame FinishBrushed chrome

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating1 A @ 120 VAC resistive
 Initial Contact Resistance ...50 Milliohms max.
 Contact TimingNon-shorting
 Actuator Travel90°
 Key Changes10 Standard
 Life ExpectancyUp to 10,000 Cycles

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature-22°F + 185° F (-30°C to +85°C)
 Storage Temperature-22°F + 185° F (-30°C to +85°C)
 Solder Heat ResistanceSee page M3-4

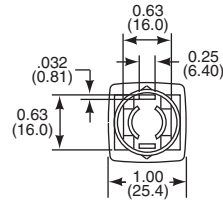
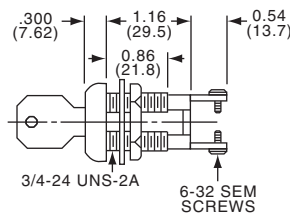
NOTE: All Keylocks are supplied with 2 brass keys on a ring.

SPST

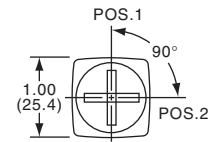
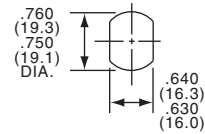
4 Disc Tumblers



SKF131



PANEL CUT-OUT



| Tyco Electronics | Alcoswitch | Type | Pos. 1 | Pos. 2 | Remove Key | Tyco Electronics | Alcoswitch | Type | Pos. 1 | Pos. 2 | Remove Key |
|------------------|--------------|------|--------|--------|-----------------|------------------|--------------|------------------------------------|--------|--------|------------|
| 1437597-1 | 2SKF131AEL01 | SPST | Off | On | Position 1 | 1-1437597-1 | 2SKF231AEL01 | SPST | Off | (On) | Position 1 |
| 1437597-7 | 2SKF132AEL01 | SPST | Off | On | Position 1 or 2 | 3-1437597-4 | SK1323AEL01 | Spare key for SK Series | | | |
| 1-1437597-0 | 2SKF133AEL01 | SPST | On | Off | Position 1 | | | (On) indicates momentary position. | | | |

H

SKF Series

High Security Key Switch

MATERIAL SPECIFICATIONS

ContactsSilver
 Cylinder MaterialZinc alloy
 Lock BodyZinc alloy
 Actuator MaterialBrass key
 Terminals/Fixed Contacts.....Screw type
 Beveled Frame FinishPolished chrome

ENVIRONMENTAL SPECIFICATIONS

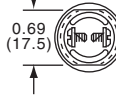
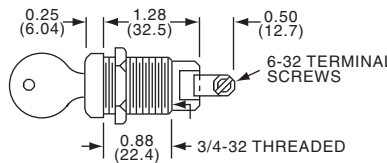
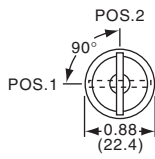
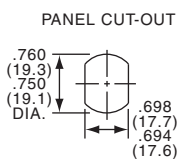
Operating Temperature.....-22°F to +185° (-30°C to +85°C)
 Storage Temperature-22°F to +185° (-30°C to +85°C)
 Solder Heat Resistance.....See page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating5A @ 115 VAC, 15A @ 24 VDC
 resistive
 Initial Contact Resistance ...50 Milliohms max.
 Contact TimingNon-shorting
 Dielectric Strength1,000 VAC @ sea level
 Actuator Travel90°
 Key Changes25 Standard
 Life ExpectancyUp to 20,000 Cycles

NOTE: All Keylocks are supplied with 2 brass keys on a ring.

SPST
8 Disc Tumblers



SWK12

| Tyco Electronics | Alcoswitch | Type | Pos. 1 | Pos. 2 | Remove Key |
|------------------|------------|----------------------------|--------|--------|-----------------|
| 4-1437597-0 | SWK12F315 | SPST | On | Off | Position 1 or 2 |
| 3-1437597-6 | SWK121F315 | SPST | On | Off | Position 2 |
| 3-1437597-8 | SWK123F315 | SPST | On | Off | Position 1 |
| 4-1437597-2 | SWK12KF315 | Spare key for SWK12 Series | | | |

H

SWK 12 Series

Engineering Notes



H

Engineering Notes

H6

Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967



*RT Series - Page I3
22mm Mounting*



*QT Series - Page I4
22mm Mounting*



*RM Series - Page I5
22mm Mounting*



Block Assemblies - Page I8



*6000 Series - Page I11
30mm Mounting*



*164/165 Command Series - Page I16
16mm Mounting*

Industrial Controls

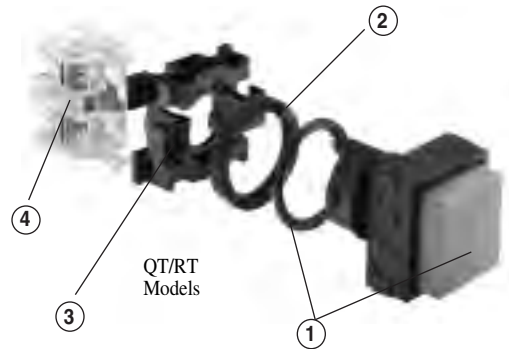
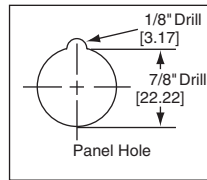
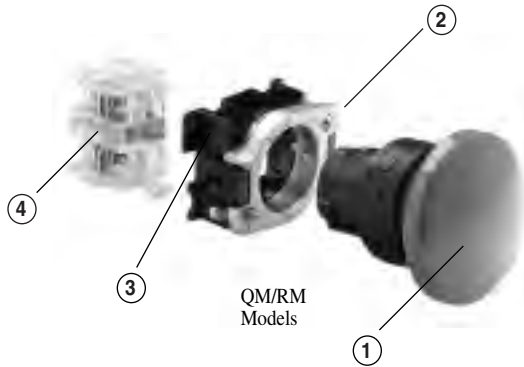
Industrial Controls Part Number Index

| | | | |
|--------------------|----------------------|----------------------|--------------------|
| 385I20 | 165J3C33I17 | M6653(*)406I14 | V50I8,I9,I14 |
| 387I20 | 165J3E22.....I17 | M6655I15 | VA0I8,I9,I14 |
| 570I6,I7,I15 | 165J3E33.....I17 | QM010I5 | VR0I8,I9,I14 |
| 616I19 | 165J7A22I17 | QM020I5 | |
| 668I19 | 165P2B11I17 | QM120I7,I15 | |
| 669I19 | 165P2B22I17 | QM122I7,I15 | |
| 755I15 | 165P2B33I17 | QM600I6,I15 | |
| 757I15 | 165P3B22I17 | QT010I5 | |
| 7333I20 | 165P3B33I17 | QT01201I4 | |
| 164EL11I16 | 165SL11I16 | QT012STSTHI4 | |
| 164EL22I16 | 165SL22I16 | QT020I5 | |
| 164EL33I16 | 165SL33I16 | RM010I3 | |
| 164EL511I16 | 165SL511I16 | RM015I3 | |
| 164EL522I16 | 165SL522I16 | RM020I3 | |
| 164EL533I16 | 165SL533I16 | RM030I4 | |
| 164EZI18 | 165SZI18 | RM0450I4 | |
| 164J0A11I17 | 165TL11I16 | RM0452I4 | |
| 164J0A22I17 | 165TL22I16 | RM0500I4 | |
| 164J0A33I17 | 165TL33I16 | RM0502I4 | |
| 164J2A11I17 | 165TL511I16 | RM0532I4 | |
| 164J2A22I17 | 165TL522I16 | RM0552I4 | |
| 164J2A33I17 | 165TL533I16 | RM0652I4 | |
| 164J2B11I17 | 165TZI18 | RM120I6 | |
| 164J2B22I17 | 327-AGI20 | RM122I6 | |
| 164J2B33I17 | 381-AGI20 | RM130I6 | |
| 164J3A22I17 | 382-AGI20 | RM145I6 | |
| 164J3A33I17 | 5B0I6,I7,I15 | RM150I6 | |
| 164J3C22I17 | 601-AGI19 | RM1652I6 | |
| 164J3C33I17 | 618-AGI19 | RM200I5 | |
| 164J3E22.....I17 | 64EI18 | RM201I5 | |
| 164J3E33.....I17 | 64SI18 | RM204I5 | |
| 164J7A22I17 | 64TI18 | RM205I5 | |
| 164KAI17 | 671-AGI19 | RM210I6 | |
| 164P0B22I17 | 697-PLI20 | RM220I6 | |
| 164P0B33I17 | 815-AGI20 | RM222I6 | |
| 164P2B11I17 | E1I5,I6 | RM230I6 | |
| 164P2B22I17 | F40I8,I9,I14 | RM232I6 | |
| 164P2B33I17 | F50I8,I9,I14 | RM233I6 | |
| 164P3B22I17 | FA0I8,I9,I14 | RM240I6 | |
| 164P3B33I17 | FR0I8,I9,I14 | RM243I6 | |
| 164SL11I16 | G001I13 | RM250I5 | |
| 164SL22I16 | M25310I10 | RM270I6 | |
| 164SL33I16 | M25500I10 | RM272I6,I9 | |
| 164SL511I16 | M25510I10 | RM273I6 | |
| 164SL522I16 | M6010I11 | RM280I6 | |
| 164SL533I16 | M6020I11 | RM3040I5 | |
| 164SZI18 | M60532I11 | RM3100I5 | |
| 164TL11I16 | M6057I11 | RM3120I5 | |
| 164TL22I16 | M60582I11 | RM3130I5 | |
| 164TL33I16 | M60652I11 | RM3700I5 | |
| 164TL511I16 | M6080I11 | RM3800I5 | |
| 164TL522I16 | M6120(*)406I13 | RM3830I5 | |
| 164TL533I16 | M6150(*)406I13 | RM4040I5 | |
| 164TZI18 | M6153(*)406I13 | RM4100I5 | |
| 165EL11I16 | M6200I13 | RM4120I5 | |
| 165EL22I16 | M6201I13 | RM4130I5 | |
| 165EL33I16 | M6210I13 | RM4700I5 | |
| 165EL511I16 | M6250I13 | RM4800I5 | |
| 165EL522I16 | M6270I13 | RM600I6,I15 | |
| 165EL533I16 | M6280I13 | RM650I6 | |
| 165EZI18 | M6402I12 | RM653I6 | |
| 165J2A11I17 | M6410I12 | RT010I3 | |
| 165J2A22I17 | M6412I12 | RT020I3 | |
| 165J2A33I17 | M6470I12 | RT050I4 | |
| 165J2B11I17 | M6480I12 | RT0500I4 | |
| 165J2B22I17 | M65310I12 | RT0502I4 | |
| 165J2B33I17 | M65500I12 | RT120I7 | |
| 165J3A22I17 | M65510I12 | SR601I6 | |
| 165J3A33I17 | M65810I12 | T6632I15 | |
| 165J3C22I17 | M6650I14 | V40I8,I9,I14 | |

Pushbutton Switches, 22mm, Oil-Tight, Round

FEATURES

- Fits 7/8" (22mm) diameter holes
- Full size buttons
- Meets NEMA 1, 12 and 13
- Rugged heavy-duty metal bushing, or thermoplastic bushings for full installation
- Matte black beveled frame finish
- IP65 protection level
- Snap-block contacts
- 6A @ 600VAC, 6A @ 125VDC V40, V50, F40, F50
6A @ 600VAC, 4A @ 125VDC VAO, VRO, FAO, FRO
- Easy "no tool" mounting
- Choice of screw terminals or dual .110/.250 quick connects
- Double-break silver contacts standard, gold plated optional
- Stackable



INSTALLATION & ASSEMBLY

- Engage the operator (1) into the 22.5mm dia. mounting hole.
- Engage metal ring (2) with operator (bayonet lock). Tighten set screws against back of panel.
- Snap the contact blocks (4) on the support(3).
- Snap the support (3) complete with contact blocks (4) on the metal ring (2).

- Engage the operator and seal (1) into the 22.5mm dia. mounting hole.
- Mount back-up nut (2) on bushing and then tighten against panel.
- Snap the contact blocks (4) on the support (3).
- Snap the support (3) complete the contact blocks (4) onto operator (1).

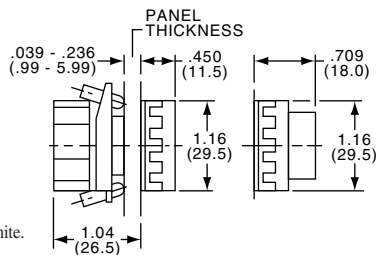
MOMENTARY

Metal Bushings

Contact blocks not supplied, order separately.
(See page I8.)

| Model | Type |
|----------|-----------------|
| RM010(*) | Flush Button |
| RM020(*) | Extended Button |
| RM015(*) | Extended Guard |

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (8) Grey, (9) White.
Note: Front beveled frame is black.

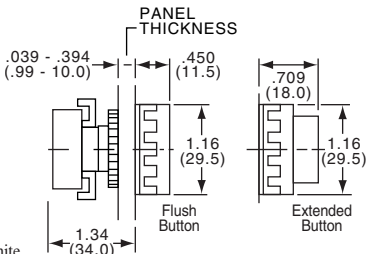


Thermoplastic Bushings (Threaded)

Contact blocks not supplied, order separately.
(See page I8.)

| Model | Type |
|----------|-----------------|
| RT010(*) | Flush Button |
| RT020(*) | Extended Button |

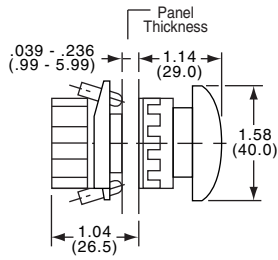
(*) Specify color by adding suffix number:
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (8) Grey, (9) White.
Note: Front beveled frame is black.



Pushbutton Switches, 22mm, Oil-Tight, Round or Mushroom or Dual Button



RM0502



MOMENTARY

Mushroom

Contact blocks not supplied, order separately. (See page I8.)

| Tyco Electronics | Alcoswitch | Type | Bushing |
|------------------|------------|-----------------|---------------------------------|
| 3-1437614-7 | RM0502 | Mushroom, Red | Metal, Bayonet |
| 1437615-2 | RT0502 | Mushroom, Red | Thermoplastic, Threaded Bushing |
| 3-1437614-6 | RM0500 | Mushroom, Black | Metal, Bayonet |
| 1437615-1 | RT0500 | Mushroom, Black | Thermoplastic, Threaded Bushing |
| 3-1437614-9 | RM0552 | Mushroom, Red | Metal, Bayonet (Wobble) |
| | RT050(*) | Mushroom | |

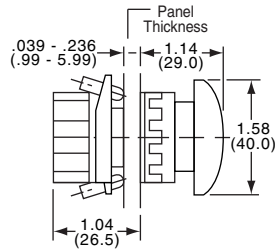
(*) Specify color by adding suffix number:

(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue.

Note: Front beveled frame is black.



RM0652



PUSH-TO-LOCK, TWIST-RELEASE

Metal Bushings

Contact blocks not supplied, order separately. (See page I8.)

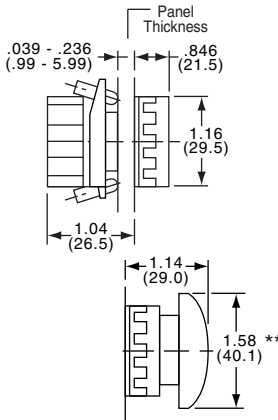
Note: Use F40/V40 for N.C. contacts, and FAO/VAO for N.O. contacts.

| Tyco Electronics | Alcoswitch | Type | Arrow |
|------------------|------------|---------------|-------|
| 4-1437614-0 | RM0652 | Mushroom, Red | White |

Note: Front beveled frame is black.



RM030(*)



MAINTAINED

Contact blocks not supplied, order separately. (See page I8.)

Note: Use F40/V40 for N.C. contacts and FAO/VAO for N.O. contacts.

| Tyco Electronics | Alcoswitch | Type |
|------------------|------------|--------------------------|
| — | RM030(*) | Flush Button |
| 3-1437614-4 | RM0450 | Mushroom, Black |
| 3-1437614-5 | RM0452 | Mushroom, Red |
| 3-1437614-8 | RM0532 | Push-Pull, Mushroom, Red |

(*) Specify color by adding suffix number:

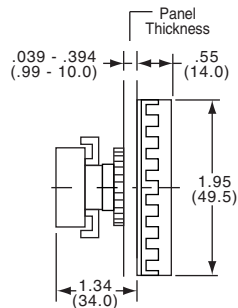
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (8) Grey, (9) White.

Note: Front beveled frame is black.

**** Note: RM0532 mushroom 35mm Dia. (1.38)**



QT01201



MOMENTARY DUAL OPERATOR*

Threaded Thermoplastic bushing

Contact blocks not supplied, order separately. (See page I8.)

Black buttons available.

| Tyco Electronics | Alcoswitch | Color | Legend |
|------------------|------------|------------|-------------------------|
| 1437614-9 | QT01201 | Green, Red | As Shown |
| — | QT012STSTH | Green, Red | Start & Stop Horizontal |

*Not oil tight construction, not sealed; meets NEMA 1 only.

Note: Front beveled frame is black.

Pushbutton or Keylock or Selector Switches, 22mm, Oil-Tight

MOMENTARY

Metal Bushings

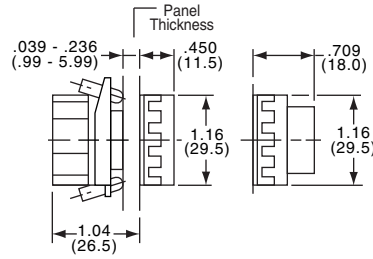
Contact blocks not supplied, order separately. (See page I8.)

| Model | Type |
|----------|-----------------|
| QM010(*) | Flush Button |
| QM020(*) | Extended Button |

(*) Specify color by adding suffix number:

(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (8) Grey, (9) White.

Note: Front beveled frame is black.



QM010(*)

Thermoplastic Bushings (Threaded)

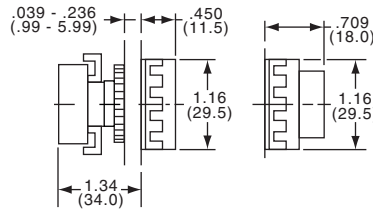
Contact blocks not supplied, order separately. (See page I8.)

| Model | Type |
|----------|-----------------|
| QT010(*) | Flush Button |
| QT020(*) | Extended Button |

(*) Specify color by adding suffix number:

(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (8) Grey, (9) White.

Note: Front beveled frame is black.



QT010(*)

2 POSITION SELECTORS/KEYLOCK MAINTAINED

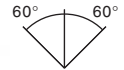
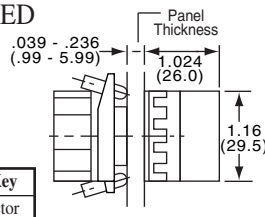
Metal Bushings

Contact blocks not supplied, order separately.

(See page I8.)

| Tyco Electronics | Alcoswitch | Action | Throw | CAM | Remove Key |
|------------------|------------|-------------------|-------|-----|---------------|
| 7-1437614-7 | RM4040 | Maintained, Black | 120° | 1 | Long Selector |
| 7-1437614-0 | RM3040 | Maintained, Black | 120° | 1 | Selector |
| 5-1437614-4 | RM200 | Maintained | 60° | 1 | ⊕ |
| 5-1437614-5 | RM201 | Maintained | 60° | 1 | ⊗ |
| 6-1437614-5 | RM250 | Momentary, Right | 60° | 1 | ⊕ |
| 5-1437614-6 | RM204 | Maintained | 120° | 1 | ⊗ |
| 5-1437614-7 | RM205 | Maintained | 120° | 1 | ⊗ |
| 1437614-1 | E1 | Spare Key | | | ⊗ |

Note: Front beveled frame is black.



RM3040

RM200/201 with/2 keys

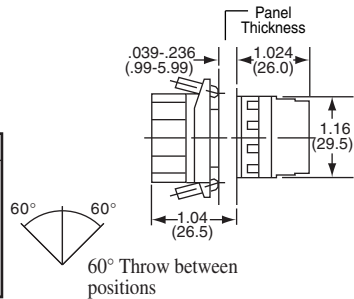
3 POSITION SELECTORS

Short Handle, Metal Bushings

Contact blocks not supplied, order separately. (See page I8.)

| Tyco Electronics | Alcoswitch | Action | CAM | Tyco Electronics | Alcoswitch | Action | CAM |
|------------------|------------|-------------------|-----|------------------|------------|------------------------------|-----|
| 7-1437614-1 | RM3100 | Maintained, Black | 2 | 7-1437614-4 | RM3700 | Momentary, Right Side, Black | 2 |
| 7-1437614-2 | RM3120 | Maintained, Black | 3 | 7-1437614-5 | RM3800 | Double Momentary, Black | 2 |
| 7-1437614-3 | RM3130 | Maintained, Black | 4 | 7-1437614-6 | RM3830 | Double Momentary, Black | 4 |

Note: Front beveled frame is black.



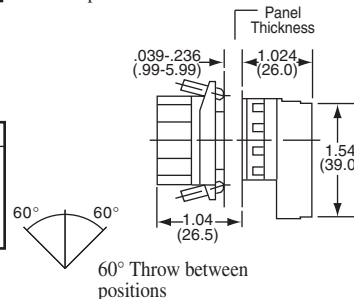
RM3100

Long Handle, Metal Bushings

Contact blocks not supplied, order separately. (See page I8.)

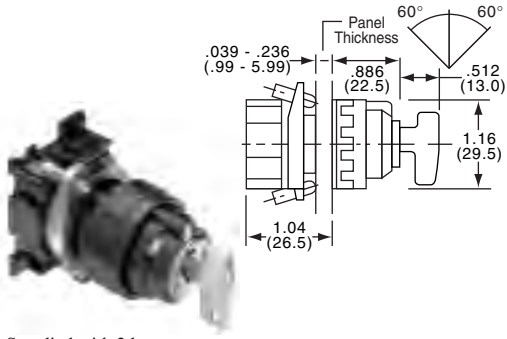
| Tyco Electronics | Alcoswitch | Action | CAM | Tyco Electronics | Alcoswitch | Action | CAM |
|------------------|------------|------------|-----|------------------|------------|-----------------------|-----|
| 7-1437614-8 | RM4100 | Maintained | 2 | — | RM4700 | Momentary, Right Side | 2 |
| — | RM4120 | Maintained | 3 | 7-1437614-9 | RM4800 | Double Momentary | 2 |
| — | RM4130 | Maintained | 4 | | | | |

Note: Front beveled frame is black.



RM4100

Keylock or Pushbutton Switches, 22mm, Oil-Tight or Pilot Lights



Supplied with 2 keys

**3 POSITION KEYLOCK SELECTOR
MAINTAINED OR MOMENTARY**

Metal Bushings

Contact blocks not supplied, order separately. (See page I8.)

| Tyco Electronics | Alcoswitch | Action | CAM | Remove Key | Tyco Electronics | Alcoswitch | Action | CAM | Remove Key |
|------------------|------------|------------|-----|------------|------------------|------------|-----------------|-----|------------|
| 5-1437614-8 | RM210 | Maintained | 2 | ⊙ | 6-1437614-4 | RM243 | Maintained | 4 | ⊙ |
| 5-1437614-9 | RM220 | Maintained | 2 | ⊗ | 6-1437614-6 | RM270 | Mom. Right Side | 2 | ⊗ |
| 6-1437614-0 | RM222 | Maintained | 3 | ⊗ | 6-1437614-7 | RM272 | Mom. Right Side | 3 | ⊗ |
| 6-1437614-1 | RM230 | Maintained | 2 | ⊗ | 6-1437614-8 | RM273 | Mom. Right Side | 4 | ⊗ |
| 6-1437614-2 | RM232 | Maintained | 3 | ⊗ | 6-1437614-9 | RM280 | Mom. Both Sides | 2 | ⊙ |
| 6-1437614-3 | RM233 | Maintained | 4 | ⊗ | 1437614-1 | E1 | Spare Key | | |
| — | RM240 | Maintained | 2 | ⊗ | | | | | |

Note: Front beveled frame is black.

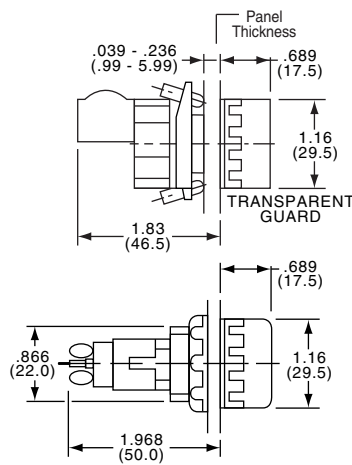


QM600 (RM600)

Metal Bushing



SR601 Threaded Thermoplastic Bushing Front lamp



PILOT LIGHTS (FULL VOLTAGE TYPE)

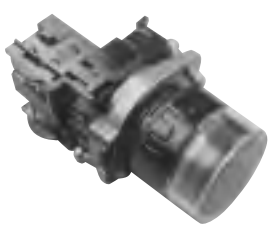
Lamps: order separately, miniature bayonet base. (See page I15.)

Lamps: use G3 1/2 on QM600(*), use T3 1/4 on SR601(*), RM600(*). Custom legends available.

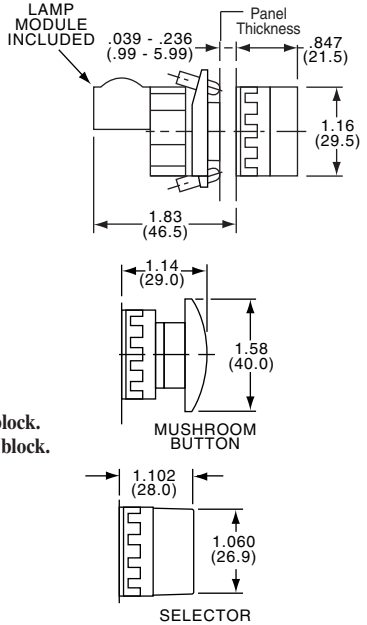
| Model | Type |
|----------|---|
| QM600(*) | Square pilot light, metal bushing |
| SR601(*) | Round pilot light, plastic bushing screw turn |
| RM600(*) | Round pilot light, metal bushing |

(*) Specify color by adding suffix number: (2) Red, (3) Orange, (4) Yellow, (5) Green, (6) Blue, (9) White.

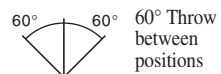
Reliant'22



RM120(*)



Application Note:
+V40/F40 used for N.C contact block.
+VA0/FA0 used for N.O. contact block.



ILLUMINATED/ROUND MOMENTARY/MAINTAINED

Metal Bushing

Contact blocks not supplied, order separately. (See page I8.)

Lamp circuit isolated. Order lamp separately. (See page I15.)

Lamps: Use T-3 1/4 or G3 1/2 incandescent or neon lamps.

| Tyco Electronics | Alcoswitch | Action | Type | Cam Type |
|------------------------------|------------|---------------|--------------------|--|
| — | RM120(*) | Momentary | Extended Button | |
| — | RM122(*) | Momentary | Guarded Button | |
| — | +RM130(*) | Maintained | Flush Button | } Push-On - Push-Off See Application Note |
| — | +RM145(*) | Maintained | Mushroom | |
| — | RM150(*) | Momentary | Mushroom | |
| 5-1437614-3 | RM1652 | Twist Release | Mushroom, Red | |
| Illuminated Selectors | | | | |
| — | RM650(*) | Maintained | 2-Pos. Selector**1 | |
| — | RM653(*) | Maintained | 3-Pos. Selector**2 | |

When operating from line voltage use step down transformers 5B0 or 570. (See page I15.)
(*) Specify color by adding suffix number: (2) Red, (4) Yellow, (5) Green, (6) Blue, (9) White.

Note: RM145 and RM150 available only in red, yellow, green.

**Use G3 1/2 lamps only.

Note: Front beveled frame is black.

Pushbutton Switches, 22mm, Oil-Tight, Round or Square Buttons

SQUARE, MOMENTARY ILLUMINATED

Metal Bushing

Contact blocks not supplied, order separately. (See page I8.)

Lamp circuit isolated. Order lamps separately.

Lamps: Use G3 1/2. (See page I15.)

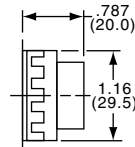
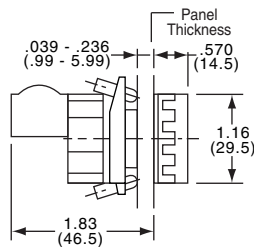
Custom legends available.

| Model | Type |
|----------|-----------------|
| QM122(*) | Flush Button |
| QM120(*) | Extended Button |

When operating from line voltage use step down transformers 5B0 or 570. (See page I15.)

(*) Specify color by adding suffix number: (2) Red, (4) Yellow, (5) Green, (6) Blue, (9) White.

Note: Front beveled frame is black.



QM122(*)



QM120(*)

ROUND, MOMENTARY ILLUMINATED

Thermoplastic

Contact blocks not supplied, order separately. (See page I8.)

Lamp circuit isolated. Order lamps separately. (See page I15.)

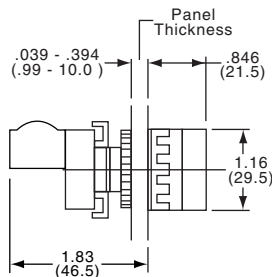
Lamps: use T-3 1/4 or G3 1/2 incandescent or neon lamps.

| Model | Action | Type |
|----------|-----------|-----------------|
| RT120(*) | Momentary | Extended Button |

When operating from line voltage use step down transformers 5B0 or 570. (See page I15.)

(*) Specify color by adding suffix number: (2) Red, (4) Yellow, (5) Green, (6) Blue, (9) White.

Note: Front beveled frame is black.



RT120(*)

Reliant'22

Standard Contact Blocks

An almost unlimited number of circuit control options are possible using various combinations of contact blocks. 8 different "V" or "F" family modular blocks may be used with any operator in the Reliant 22, 2200 or 6000 series, depending on circuit requirements and operator design. The exclusive SNAP-BLOC design permits assembly without the use of tools – no screws or hardware to get lost. Choose either screw terminals or dual

male .110"/.250" quick connect terminals. Plunger color indicates closure mode. The double break silver contacts are enclosed in a tough transparent polycarbonate housing, permitting visual inspection of contacts. Designed-in rocking action for long, reliable life; over several million operations in normal use. Operating temperature range: -25°C to +60°C. Storage temp. -40°C to +80°C.

Application Notes

1. A total of 4 (2 upper and 2 lower) contact blocks may be stacked and snap-mounted in either the upper and/or lower position on the back on any Reliant 22, Series 4000 or 6000 operator.
2. In order to maintain optimum insulating distances when contact blocks are stacked, wiring connections should be in same polarity for operation above 300VAC.
3. Blocks may be prewired and snapped into place for easier assembly.
4. Remove blocks by simply prying tabs. Small screwdriver is all that is necessary.

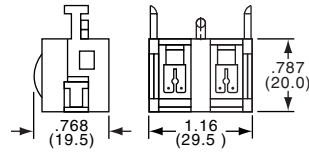
F&V Contact blocks are UL recognized. File Number E-60363
CSA LR-20785-19 CE MARK

ELECTRICAL CONTACT RATINGS

| Condition | Function | Standard Series (600 VAC Max.) | | |
|-----------------------------|------------------|-----------------------------------|------|------|
| | | 120V | 300V | 600V |
| AC Operation | | | | |
| Inductive Loads | Make | 30A | 12A | 6A |
| | Continuous | 6A | 6A | 6A |
| | Break | .350 P.F. min. | 3A | 1.2A |
| Resistive Loads | Make, Continuous | 6A | 6A | 6A |
| | Carry & Break | .750 P.F. min. | | |
| DC Operation | | | | |
| Inductive & Resistive Loads | Make | 1.1A | | |
| | Continuous Carry | 6A | 6A | 6A |
| | Break | 1.1A | | |



F Series



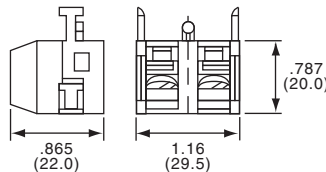
QUICK CONNECT

| Tyco Electronics | Alcoswitch | Contacts | Plunger Color |
|------------------|------------|-----------------|---------------|
| 1437612-9 | F40 | Normally Closed | Red |
| 1-1437612-0 | F50 | Normally Open | Green |
| 1-1437612-1 | FA0 | N.O. Early Make | Yellow |
| 1-1437612-2 | FR0 | N.C. Late Break | Black |

Note: FA0 and FR0 contacts "overlap."



V Series



SCREW TERMINAL

| Tyco Electronics | Alcoswitch | Contacts | Plunger Color |
|------------------|------------|-----------------|---------------|
| 1-1437612-3 | V40 | Normally Closed | Red |
| 1-1437612-5 | V50 | Normally Open | Green |
| 1-1437612-8 | VA0 | N.O. Early Make | Yellow |
| 1-1437612-9 | VR0 | N.C. Late Break | Black |

Note: "V" Series is available with gold plated contacts; order V40G, V50G, VA0G, VR0G. Note: VAO and VRO contacts "overlap."

Series 6000 and Reliant'22 Contact Selection

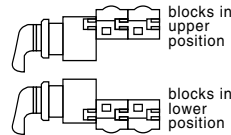
- Determine how many contacts are required for the application, and what contact closure sequence is needed for each contact.
 - 2-Position Operators: There are only two practical possibilities for contact closure sequence. Using "O" to indicate an open and "X" to indicate a closed contact, the options are shown in the table to the right. All Reliant 22 and Series 6000 2-position selection selector and keylock operators provide these options.
 - 3-Position Operators: There are six practical possibilities for contact closure sequence. Using "O" to indicate an open contact, and "X" to indicate a closed contact, the options are shown in the table to the right. Four different cam types are available to provide various combinations of contact closure sequence. Cam Type 2 (see table below) provides the most popular closure sequence, and Cam Type 3 provides all six possibilities, depending on the contact block models chosen. Note that each operator has an upper and lower contact block location, and that the cam profiles are different for upper and lower locations, except for Cam Type 2.
- Make a truth table similar to that shown in the example at the bottom of the page, in which each contact required by the circuit of the application is represented. Up to 12 contacts may be used for each operator, depending on the sequences required and the types of contact blocks chosen.
- Refer to the contact sequence table (below). Find the cam type that will provide all of the required contact closure sequences, and note which contact block model will be needed for each circuit contact.
- Now refer to the tables on pages I5-I6 for 22mm and pages I12-I13 for 30mm to find the operator model that has the cam type needed in the application and that provides the desired features with respect to action (maintained or momentary) type of actuator (lever or key), etc.

| | |
|------|-------|
| 0 | 1 |
| left | right |
| O | X |
| X | O |

| | | |
|------|--------|-------|
| 2 | 0 | 1 |
| left | center | right |
| O | O | X |
| X | O | O |
| O | X | X |
| X | X | O |
| O | X | O |
| X | O | X |

SELECTOR & KEYLOCK OPERATORS

ALCOSWITCH selector and keylock operators, in combination with the contact blocks listed on page I8, are designed to fulfill the circuit requirements of almost any 2- or 3-position control application. Each operator has two locations (upper and lower) into which contact blocks may be snap-mounted. Up to four contact blocks may be stacked in each location, the maximum number depending on the contact block models chosen and the contact closure sequences required. (Note: only one logic level block may be used in each location.)



CONTACT CLOSURE SEQUENCE CHART

| Contact Blocks | 2-Position Operators | | 3-Position Operators | | | | | | | | |
|-------------------|-------------------------|----|----------------------|----------------|----------------|----------------|----------------|----------------|---|---|---|
| | CAM Type 1 | | CAM Type 2 | | CAM Type 3 | | CAM Type 4 | | | | |
| | upper & lower locations | | upper location | lower location | upper location | lower location | upper location | lower location | | | |
| | 0 | 1 | 2 | 0 | 1 | 2 | 0 | 1 | 2 | 0 | 1 |
| V40 or F40 Red | X | 0 | X | 0 | 0 | X | 0 | 0 | 0 | X | 0 |
| V50 or F50 Green | 0 | X | 0 | 0 | X | 0 | 0 | X | 0 | 0 | X |
| VA0 or FA0 Yellow | 0 | X* | 0 | X | X | 0 | X | X | X | 0 | X |
| VR0 or FR0 Black | X | 0* | X | X | 0 | X | X | 0 | X | X | 0 |

X = Closed 0 = Open *VA0 and FA0 contacts overlap with VR0 and FR0 contacts between position of 2 position operators providing "Make Before Break" action.

Example: An "Off-On-Reset" circuit control requires a 3-position keylock switch. The key is to be removable in the "OFF" and "ON" position and the "Reset" position must be momentary (spring return from right to center). All contacts are open in the "Off" position, and two contacts are closed in the "On" position. In the "Reset" position a third contact must close and one of the contacts

in the "on" position must open. This contact closure sequence is shown by the following truth table:

| Contact Number | Off (2) | On (0) | Reset (1) |
|----------------|---------|--------|-----------|
| 1 | O | X | X |
| 2 | O | X | O |
| 3 | O | O | X |

Referring to the Contact Closure Sequence Table, it is seen that cam Type 3 provides these sequences. In addition, the contact block models that should be used are given; model VA0 (or FA0) for contact No. 1, to be installed in the upper contact block location; model V40 (or F40) for contact No. 2, to be installed in the lower

contact block location; and model V50 (or F50) for contact No. 3, which may be used in either the upper or lower contact block location, behind one of the other two blocks. Reference to the operator model listings shows that model RM272 provides cam Type 3 and has desired momentary action and key removability.

Joystick, 22mm



M25310

5 POSITION JOYSTICK (4 Action + Center-Off)

Metal Bushing

Maintained or momentary models, inherent design requires use of N.O. and N.C. contact blocks. Supplied with legend plate, and black knob. Contact blocks not supplied, order separately. (See page I8.)

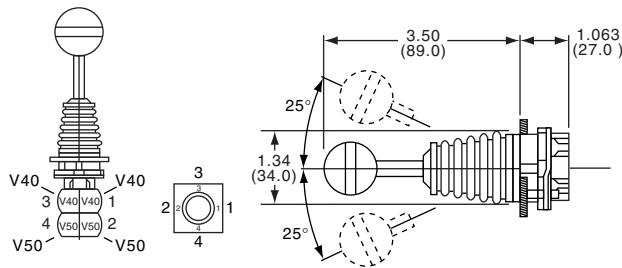
| Tyco Electronics | Alcoswitch | Description | | | | | |
|------------------|------------|------------------------|------|------|-----|------|------|
| 1437609-2 | M25310 | Momentary, 3 Position | — | (ON) | OFF | (ON) | — |
| 1437609-3 | M25500 | Maintained, 5 Position | ON | ON | OFF | ON | ON |
| 1437609-4 | M25510 | Momentary, 5 Position | (ON) | (ON) | OFF | (ON) | (ON) |

(ON) indicates momentary position

Note: All positions are mutually exclusive and action must pass through neutral for all changes of operator level.

CONTACT ARRANGEMENT

Contact blocks should be placed as shown. All contacts are held open in neutral position. Each numbered contact closed when activated. M25310 operators require one N.O. and one N.C. contact block, and M25500 and M25510 require two N.O. and two N.C. blocks.



Pushbutton Switches, 30mm, Round or Mushroom Buttons

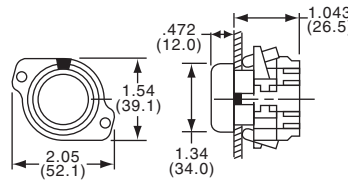
FLUSH GUARD MOMENTARY

Metal Bushing

Contact blocks not supplied, order separately. (See page I8.)

| Model | Special Details |
|----------|-----------------|
| M6010(*) | Momentary |

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (9) White.



M6010(*)

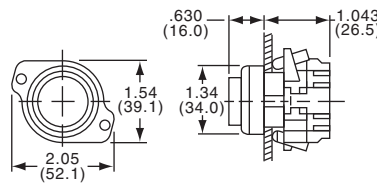
EXTENDED BUTTON MOMENTARY

Metal Bushing

Contact blocks not supplied, order separately. (See page I8.)

| Model | Special Details |
|----------|-----------------|
| M6020(*) | Momentary |

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (4) Yellow, (5) Green, (6) Blue, (9) White.



M6020(*)

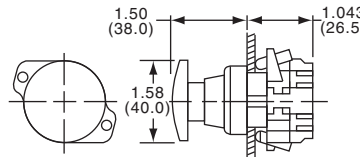
MUSHROOM HEAD MOMENTARY PUSH MAINTAINED

Metal Bushing

Contact blocks not supplied, order separately. (See page I8.)

| Tyco Electronics | Alcoswitch | Special Details | Color |
|------------------|------------|----------------------------|-------|
| — | M6057(*) | Momentary | (*) |
| 1437610-6 | M60532 | Push-Pull | Red |
| 1-1437610-3 | M60652 | Push-Lock/Twist To Release | Red |

(*) Specify color by adding suffix number:
(0) Black, (2) Red, (3) Orange, (4) Yellow, (5) Green, (6) Blue, (9) White.



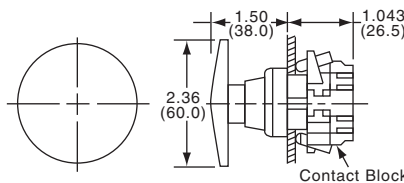
M6057(*)

LARGE MUSHROOM HEAD MOMENTARY PUSH

Metal Bushing

Contact blocks not supplied, order separately. (See page I8.)

| Tyco Electronics | Alcoswitch | Special Details | Color |
|------------------|------------|-----------------|-------|
| 1-1437610-2 | M60582 | Momentary | Red |



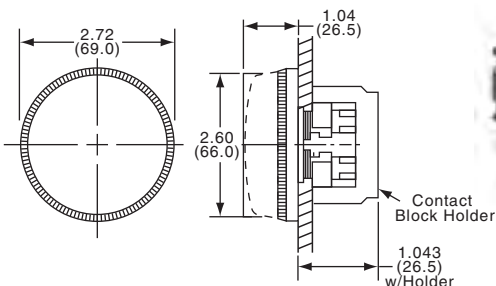
M60582

LARGE GUARDED MUSHROOM HEAD MOMENTARY PUSH

Metal Bushing. Heavy duty metal bushing and guard.
Contact blocks not supplied, order separately. (See page I8.)

| Model | Special Details |
|----------|-----------------|
| M6080(*) | Momentary |

(*) Specify color by adding suffix number: (0) Black, (2) Red, (5) Green.

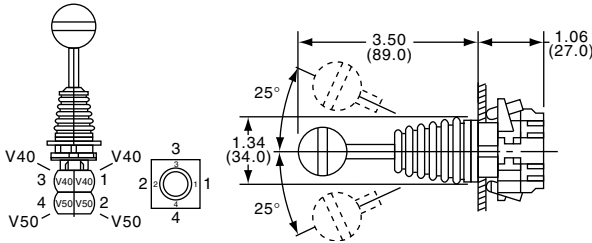


M6080(*)

Selector Switches or Joysticks, 30mm



M65510



5-POSITION JOYSTICK (4 Active & Center-Off)

Metal Bushing

Maintained or momentary model with or without mechanical latch. Inherent design requires use of N.O. and N.C. Contact blocks not supplied, order separately. (See page I8.) Supplied with legend plate (1-2-3-4), black knob.

CONTACT ARRANGEMENT

Contact blocks should be placed as shown. All contacts are held open in neutral position. Each number contact closed when activated. Model M65310 has only two active positions, requires one N.O. and one N.C. contact block.

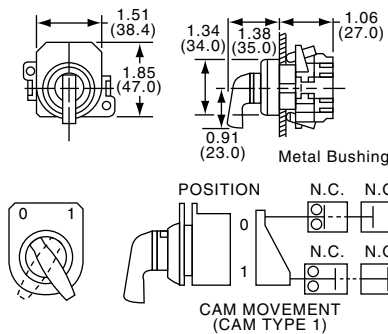
Note: All positions are mutually exclusive and action must pass through neutral for all changes of operator level.

| Tyco Electronics | Alcoswitch | Action | | | | | |
|------------------|------------|----------------------|------|------|------|------|------|
| 3-1437610-5 | M65310 | Momentary, No Latch | (On) | Off | (On) | | |
| — | M65500 | Maintained, No Latch | On | On | Off | On | On |
| 3-1437610-6 | M65510 | Momentary, No Latch | (On) | (On) | Off | (On) | (On) |
| 3-1437610-7 | M65810 | Momentary w/Latch | (On) | (On) | Off | (On) | (On) |

(On) indicates momentary position.



M6402(*)



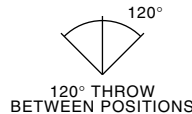
2-POSITION SELECTOR MAINTAINED

Metal Bushing

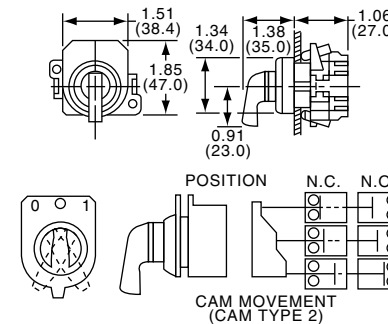
Contact blocks not supplied, order separately. (See page I8.) Legend plant included.

| Model | Action | Lever | Position Number |
|----------|------------|-------|-----------------|
| M6402(*) | Maintained | Long | 0 1 |

(*) Specify color by adding suffix number: (0) Black, (2) Red.



M6412(*)



3-POSITION SELECTOR MAINTAINED OR MOMENTARY

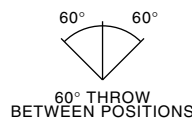
Metal Bushing

Contact blocks not supplied, order separately. (See page I8.) Legend plate included.

| Model | Action | Lever | Cam | Position Number |
|----------|--------------|-------|-----|-----------------|
| M6410(*) | Maintained | Long | 2 | 2 0 1 |
| M6412(*) | Maintained | Long | 3 | 2 0 1 |
| M6470(*) | Mom. 1 Side | Long | 2 | 2 0 ← 1 |
| M6480(*) | Mom. 2 Sides | Long | 2 | 2 → 0 ← 1 |

Indicates momentary return position

(*) Specify color by adding suffix number: (0) Black, (2) Red.



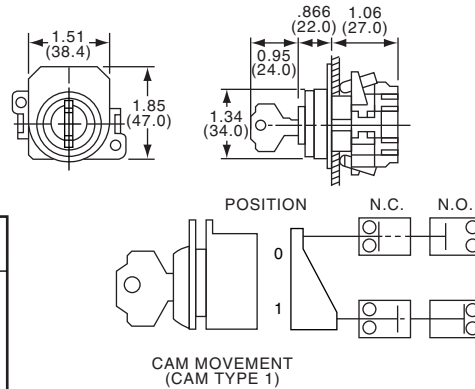
Keylock or Pushbutton Switches, 30mm

**2 POSITION KEY SELECTOR
MAINTAINED OR MOMENTARY**

Metal Bushing
Supplied with two keys and legend plate.
Contact blocks not supplied, order separately.
(See page I8)

| Tyco Electronics | Alcoswitch | Action | Cam | Position Number | Throw | Remove Key | |
|------------------|------------|-----------------|-----|-----------------|-------|------------|--|
| 2-1437610-2 | M6200 | Maintained | 1 | 0 1 | 60° | ⊙ | |
| 2-1437610-3 | M6201 | Maintained | 1 | 0 1 | 60° | ⊗ | |
| 2-1437610-6 | M6250 | Momentary | 1 | 0 ← 1 | 60° | ⊙ | |
| 1437617-1 | G001 | Additional Keys | | | | | |

← Indicates momentary return position

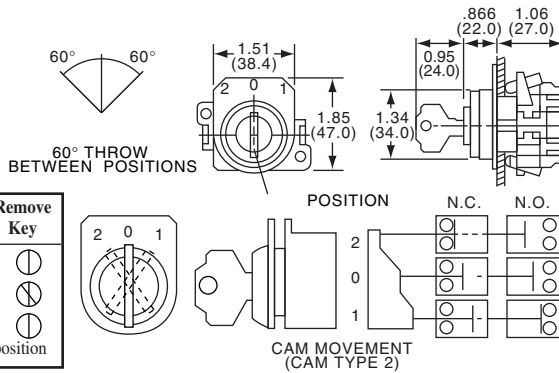


**3 POSITION KEY SELECTOR
MAINTAINED OR MOMENTARY**

Metal Bushing
Supplied with two keys and legend plate.
Contact blocks not supplied, order separately.
(See page I8.)

| Tyco Electronics | Alcoswitch | Action | Cam | Position Number | Remove Key | |
|------------------|------------|-----------------|-----|-----------------|------------|--|
| 2-1437610-5 | M6210 | Maintained | 2 | 2 0 1 | ⊙ | |
| 2-1437610-7 | M6270 | Mom. 1 Side | 2 | 2 0 ← 1 | ⊗ | |
| 2-1437610-8 | M6280 | Mom. 2 Sides | 2 | 2 → 0 ← 1 | ⊙ | |
| 1437617-1 | G001 | Additional Keys | | | | |

← Indicates momentary return position

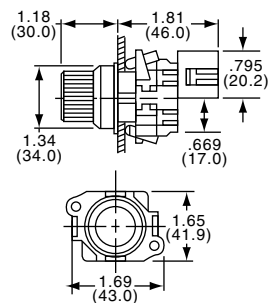


ILLUMINATED EXTENDED BUTTON MOMENTARY

Metal Bushing
Lamp not supplied, order separately. (See page I15.) Uses T31/4 miniature bayonet base lamps. Lamp circuit is isolated. Contact blocks not supplied, order separately. (See page I8)

| Model | Special Details |
|-------------|-----------------|
| M6120(*)406 | Momentary |

(*) Specify color by adding suffix number: (2) Red, (4) Yellow, (5) Green, (9) White.

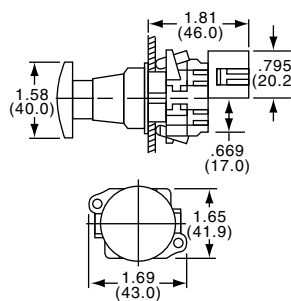


**ILLUMINATED MUSHROOM
MAINTAINED OR MOMENTARY**

Metal Bushing
Lamp not supplied, order separately. (See page I15.)
Uses miniature bayonet base lamps. Lamp circuit is isolated.
Contact block not supplied, order separately. (See page I8.)

| Model | Special Details |
|-------------|-----------------------|
| M6150(*)406 | Momentary |
| M6153(*)406 | Maintained, Push-Pull |

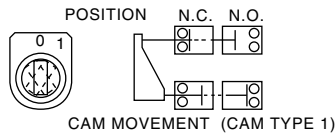
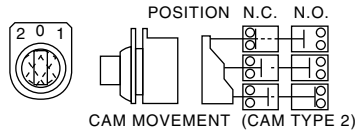
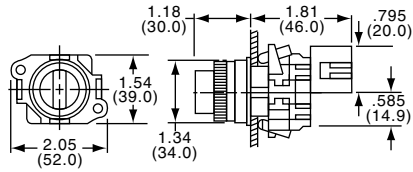
(*) Specify color by adding suffix number: (2) Red, (4) Yellow, (5) Green, (9) White.



Selector Switches, 30mm, Illuminated



M6650(*)06



**ILLUMINATED MAINTAINED
SELECTOR**

Metal Bushing

Lamp not supplied, order separately. (See page I15.)

G31/2 lamps. Lamp circuit is isolated. Contact blocks not supplied, order separately. (See page I8.)

| Model | Number Position | Action | Position Number |
|-------------|-----------------|------------|-----------------|
| M6653(*)406 | 3 | Maintained | 2 0 1 |
| M6650(*)406 | 2 | Maintained | 0 1 |

(*) Specify color by adding suffix number: (2) Red, (4) Yellow, (5) Green.

| Model | Action | 2-Position Operator | | 3-Position Operator | | |
|------------|-----------------------|---------------------|---|---------------------|---|---|
| V40 or F40 | N.C. | O | 1 | 1 | O | 2 |
| V50 or F50 | N.O. | X | O | X | O | O |
| VA0 or FA0 | N.O. Early | O | X | O | X | X |
| VR0 or FR0 | N.C. Make Break | X | O | X | X | 0 |

O=Open
X = Closed

KEY TO SELECTION OF CONTACT BLOCKS
Contact closure variations depend on the contact block models chosen. For these operators listed use this table for guidance in selecting blocks.

Lamps/Transformers

LAMPS

The lamps with G31/2 bulbs fit all Reliant 22, Series 6000 illuminated operators and pilot lights. Lamps with T31/4 Bayonet Base fit all Reliant 22 and Series 6000 illuminated models (except QM120, QM122, and M6650, and M6655).

| Tyco Electronics | Alcoswitch | Bulb | Rated Volts | Design Amps | MSCP | Average Rated Hours |
|------------------|------------|-------|-------------|-------------|------|---------------------|
| 1-1437620-5 | 755 | T31/4 | 6.3 | .15 | .33 | 20,000 |
| 1-1437620-6 | 757 | T31/4 | 28 | .08 | .62 | 7,500 |

*Not recommended for use with green or blue lenses.



NE51HR

755

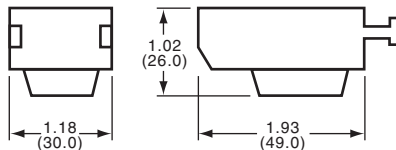
Application Note: For additional specifications, see page K10

STEP-DOWN TRANSFORMERS

AC LINE TO 6V/6.3V

Snap mount on lighted operators and QM600, T6632 and RM600 pilot lights. Spade tipped leads connect to lamp terminals on operator. Screw terminals on primary. Use 6-6.3V lamps. 0-9 to 1.35 watts. Secondary winding is energy-limited.

| Tyco Electronics | Alcoswitch | Primary Voltage |
|------------------|------------|-----------------|
| 1437612-8 | 5B0 | 110-120 VAC |
| 1437612-7 | 570 | 220-240 VAC |



U.L. Recognized

5B0

Panel Layouts

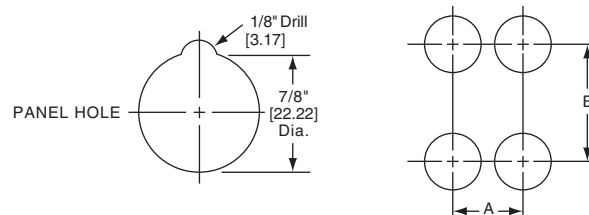
RELIANT'22 MINIATURE MODELS

Recommended hole mounting dimensions*

Minimum Center-To-Center Spacing
Inches/(mm)

| Operator Type | A | B |
|---------------------|-----------|-----------|
| Pushbuttons, Pilots | 1.19/30.2 | 1.66/42.2 |
| Mushroom, Selector | 1.50/37.8 | 1.66/42.2 |
| Others | 1.94/49.3 | 1.94/49.3 |

*Check dimensions for layouts using legend plates.



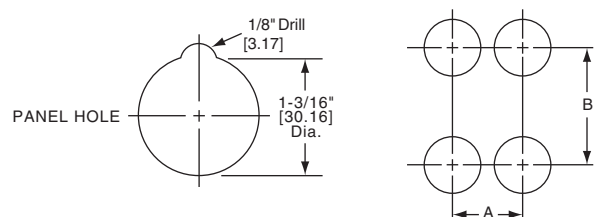
SERIES 6000 STANDARD MODELS

Recommended hole mounting dimensions*

Minimum Center-To-Center Spacing
Inches/(mm)

| Operator Type | A | B |
|---------------------|-----------|-----------|
| Pushbuttons, Pilots | 1.88/47.8 | 1.97/50.0 |
| Mushroom, Selector | 2.25/57.2 | 2.25/57.2 |
| Large Mushroom | 3.00/76.2 | 3.00/76.2 |

*Check dimensions for layouts using legend plates.



Series 6000

Pushbutton Switches, 16mm, Illuminated

FEATURES:

Command Series Illuminated Pushbuttons are instrument-grade switches having snap-acting double break contacts, silver clad and gold plated to satisfy the requirements of logic level and power switching. **Contacts are electrically independent of one another and are isolated from the lamp circuit.** Tactile feel is excellent and maintained models have latching feature for visible indication of status. Uses T1-3/4 midget flanged base lamp, relampable from front of panel. Legends may be provided using printed transparent tape affixed to inner button. UL Recognized, File E-51302, CSA LR-20479

Note: Recommended panel thickness 4mm max.

MATERIAL SPECIFICATIONS:

ContactsGold plate over silver clad

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC or Peak AC
 5 A @ 250 VAC or 24 VDC (Resistive)
 Initial Contact Resistance20 Milliohms max.
 Insulation Resistance100 Megohms min.
 Dielectric Strength1,500 VAC
 Life Expectancy100,000 Operations @ rated current

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +122°F (-20°C to +50°C)
 OiltightIP65, NEMA 1, 12 & 13
 Non-oiltight.....IP40

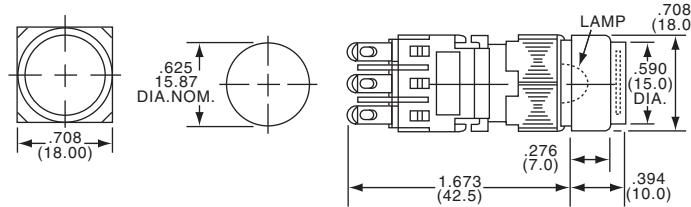
ROUND

Lens set and lamps not supplied.



164EL11

Application Note: For lens sets, accessories and lamps, see page I18 to I20



| Non-Oiltight | | Oiltight | | Contact | Action |
|------------------|------------|------------------|------------|---------------|------------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | |
| 1437569-2 | 164EL11 | 4-1437569-2 | 165EL11 | 1 N.O. & N.C. | Momentary |
| 1437569-3 | 164EL22 | 4-1437569-3 | 165EL22 | 2 N.O. & N.C. | Momentary |
| — | 164EL33 | — | 165EL33 | 3 N.O. & N.C. | Momentary |
| 1437569-5 | 164EL511 | 4-1437569-4 | 165EL511 | 1 N.O. & N.C. | Push on/Push off |
| 1437569-6 | 164EL522 | 4-1437569-5 | 165EL522 | 2 N.O. & N.C. | Push on/Push off |
| 1437569-7 | 164EL533 | — | 165EL533 | 3 N.O. & N.C. | Push on/Push off |

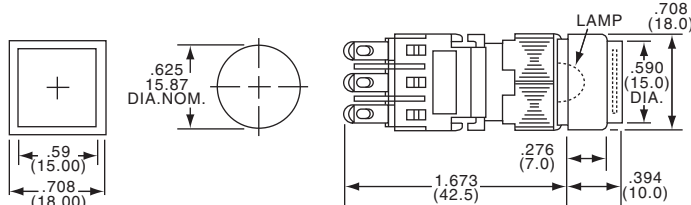
SQUARE

Lens set and lamps not supplied.



164SL11

Application Note: For lens sets, accessories and lamps, see page I18 to I20



| Non-Oiltight | | Oiltight | | Contact | Action |
|------------------|------------|------------------|------------|---------------|------------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | |
| 2-1437569-5 | 164SL11 | 4-1437569-9 | 165SL11 | 1 N.O. & N.C. | Momentary |
| 2-1437569-6 | 164SL22 | 5-1437569-0 | 165SL22 | 2 N.O. & N.C. | Momentary |
| 2-1437569-7 | 164SL33 | — | 165SL33 | 3 N.O. & N.C. | Momentary |
| 2-1437569-9 | 164SL511 | 5-1437569-1 | 165SL511 | 1 N.O. & N.C. | Push on/Push off |
| 3-1437569-0 | 164SL522 | 5-1437569-2 | 165SL522 | 2 N.O. & N.C. | Push on/Push off |
| 3-1437569-1 | 164SL533 | — | 165SL533 | 3 N.O. & N.C. | Push on/Push off |

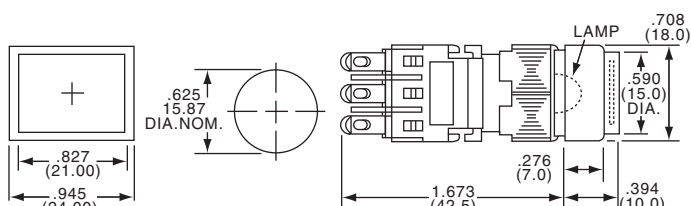
RECTANGULAR

Lens set and lamps not supplied.



164TL11

Application Note: For lens sets, accessories and lamps, see page I18 to I20



| Non-Oiltight | | Oiltight | | Contact | Action |
|------------------|------------|------------------|------------|---------------|------------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | |
| 3-1437569-4 | 164TL11 | 5-1437569-4 | 165TL11 | 1 N.O. & N.C. | Momentary |
| 3-1437569-5 | 164TL22 | 5-1437569-5 | 165TL22 | 2 N.O. & N.C. | Momentary |
| 3-1437569-6 | 164TL33 | — | 165TL33 | 3 N.O. & N.C. | Momentary |
| 3-1437569-8 | 164TL511 | 5-1437569-6 | 165TL511 | 1 N.O. & N.C. | Push on/Push off |
| 3-1437569-9 | 164TL522 | 5-1437569-7 | 165TL522 | 2 N.O. & N.C. | Push on/Push off |
| 4-1437569-0 | 164TL533 | 5-1437569-8 | 165TL533 | 3 N.O. & N.C. | Push on/Push off |

Selector or Keylock Switches, 16mm

FEATURES:

Command Series Selector & Keylock Switches are 2 & 3-position rotary types with snap-acting double break contacts. All models have 90° throw. Contacts are silver-clad and gold-plated to provide reliable operation at logic levels as well as for power switching applications. Contacts are electrically isolated from one another. Keylock types are supplied with two keys. Oiltight models meet NEMA 1, 12 & 13 requirements.

UL Recognized File E-51302

CSA LR-20479

MATERIAL SPECIFICATIONS:

ContactsGold plate over silver clad

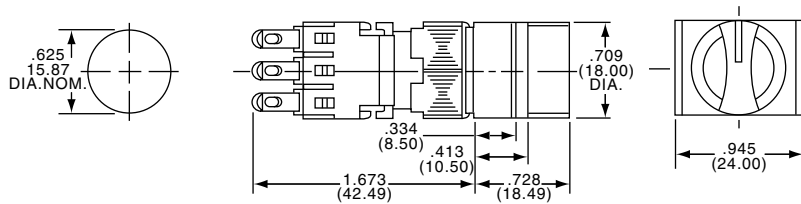
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC or Peak AC
 5 A @ 250 VAC or 24 VDC (Resistive)
 Initial Contact Resistance20 Milliohms max.
 Insulation Resistance100 Megohms min.
 Dielectric Strength1,500 VAC
 Life Expectancy100,000 Operations at rated current

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +158°F (-20°C to +70°C)

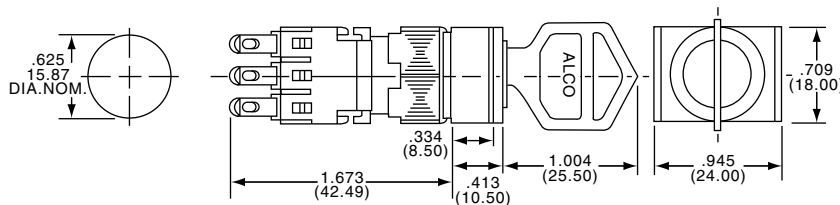
SELECTORS



164P2B11

| Non-Oiltight | | Oiltight | | Contact | Action |
|------------------|------------|------------------|------------|--------------|------------------------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | |
| 2-1437569-0 | 164P2B11 | 4-1437569-8 | 165P2B11 | 1N.O. & N.C. | 2 Pos. Maintained |
| 2-1437569-1 | 164P2B22 | — | 165P2B22 | 2N.O. & N.C. | 2 Pos. Maintained |
| — | 164P2B33 | — | 165P2B33 | 3N.O. & N.C. | 2 Pos. Maintained |
| 1-1437569-9 | 164P0B22 | — | — | 2N.O. & N.C. | 2 Pos. Momentary Right |
| — | 164P0B33 | — | — | 3N.O. & N.C. | 2 Pos. Momentary Right |
| 2-1437569-2 | 164P3B22 | — | 165P3B22 | 2N.O. & N.C. | 3 Pos. Center Off/Maintained |
| 2-1437569-3 | 164P3B33 | — | 165P3B33 | 3N.O. & N.C. | 3 Pos. Center Off |

KEYLOCKS



164J2A11

| 2 Position Keylocks | | | | | | 3 Position Keylocks | | | | | |
|---------------------|------------|------------------|------------|--------------|--------------------------------|---------------------|------------|------------------|------------|--------------|--------------------------------|
| Non-Oiltight | | Oiltight | | Contact | Action | Non-Oiltight | | Oiltight | | Contact | Action |
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | |
| 1-1437569-1 | 164J2A11 | 4-1437569-7 | 165J2A11 | 1N.O. & N.C. | Maintained, key pull left | — | 164J3A22 | — | 165J3A22 | 2N.O. & N.C. | Maintained, key pull left |
| 1-1437569-2 | 164J2A22 | — | 165J2A22 | 2N.O. & N.C. | Maintained, key pull left | 1-1437569-5 | 164J3A33 | — | 165J3A33 | 3N.O. & N.C. | Maintained, key pull left |
| — | 164J2A33 | — | 165J2A33 | 3N.O. & N.C. | Maintained, key pull left | — | 164J3E22 | — | 165J3E22 | 2N.O. & N.C. | Maintained, key pull center |
| 1-1437569-3 | 164J2B11 | — | 165J2B11 | 1N.O. & N.C. | Maintained, key pull both | — | 164J3E33 | — | 165J3E33 | 3N.O. & N.C. | Maintained, key pull center |
| 1-1437569-4 | 164J2B22 | — | 165J2B22 | 2N.O. & N.C. | Maintained, key pull both | 1-1437569-6 | 164J3C22 | — | 165J3C22 | 2N.O. & N.C. | Maintained, key pull all |
| — | 164J2B33 | — | 165J2B33 | 3N.O. & N.C. | Maintained, key pull both | — | 164J3C33 | — | 165J3C33 | 3N.O. & N.C. | Maintained, key pull all |
| 1437569-9 | 164J0A11 | — | — | 1N.O. & N.C. | Momentary right, key pull left | — | 164J7A22 | — | 165J7A22 | 2N.O. & N.C. | Momentary right, key pull left |
| 1-1437569-0 | 164J0A22 | — | — | 2N.O. & N.C. | Momentary right, key pull left | 1-1437569-8 | 164KA | — | — | — | Spare Keys |
| — | 164J0A33 | — | — | 3N.O. & N.C. | Momentary right, key pull left | — | — | — | — | — | — |

Pilot Light Indicators or Lens Sets, 16mm

FEATURES

Command Series Pilot Light Indicators match the appearance of both lighted and unlighted Command Series pushbuttons. The same lens buttons are snapped into place and legends may be easily inserted. Illumination is from T - 1 3/4 midget flange based lamps, which are installed from the front panel. Lenses and lamps are ordered separately. Oiltight models meet NEMA 1, 12 & 13 requirements. UL File No. E-51302
CSA LR-20479

TYPICAL PERFORMANCE CHARACTERISTICS:

LAMP DISSIPATION 1.2W MAX.
Insulation Resistance100 Megohms min.
Dielectric Strength1,500 VAC

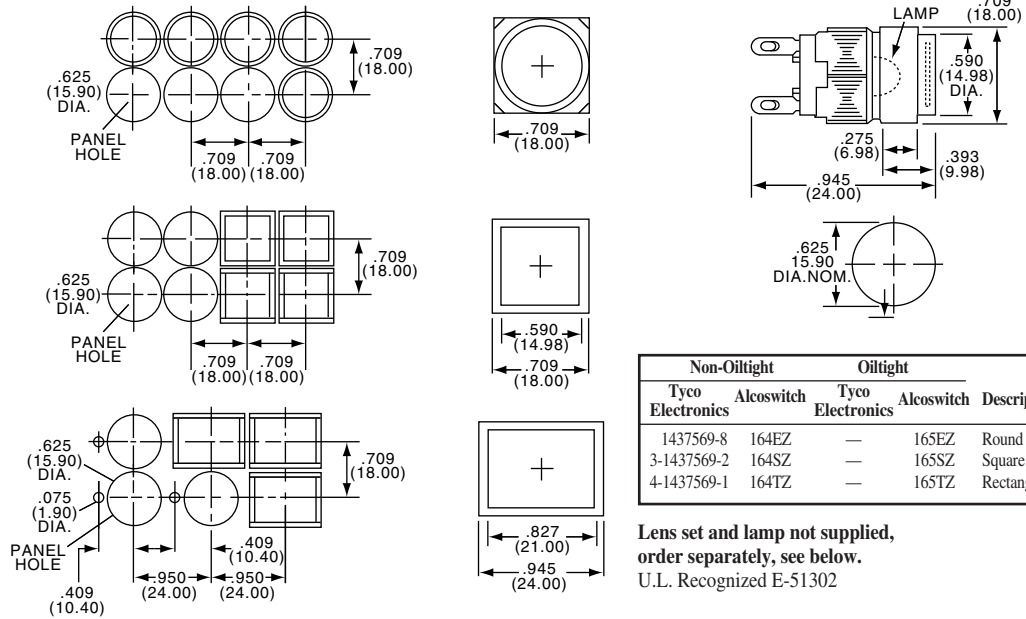
ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +122°F (-20°C to +50°C)

PILOT LIGHT INDICATORS



164EZ



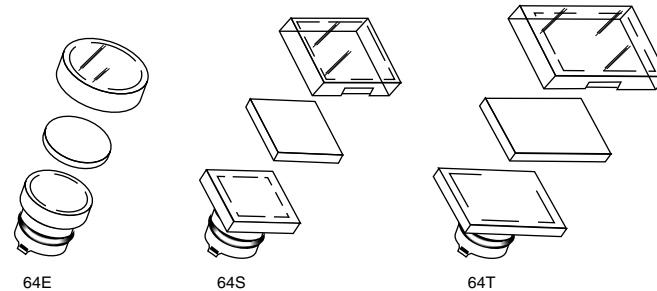
| Non-Oiltight | | Oiltight | | Description |
|------------------|------------|------------------|------------|-------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | |
| 1437569-8 | 164EZ | — | 165EZ | Round |
| 3-1437569-2 | 164SZ | — | 165SZ | Square |
| 4-1437569-1 | 164TZ | — | 165TZ | Rectangular |

Lens set and lamp not supplied, order separately, see below.
U.L. Recognized E-51302

LENS SET



64E



| Model | Description |
|--------|----------------------|
| 64E(*) | Round lens set |
| 64S(*) | Square lens set |
| 64T(*) | Rectangular lens set |

All fit oiltight and non-oiltight indicators.
(*) Specify color by adding suffix number: (2) Red, (3) Orange, (4) Yellow, (5) Green, (6) Blue, (9) White/Clear.

Application Note:
Lens sets include, button, diffuser and cap.

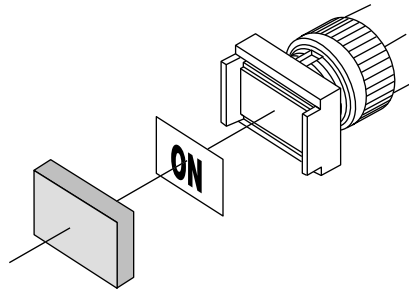
Accessories and Tools, 16mm

FEATURES:

Standard Legends on Transparent Adhesive Tape are available for Illuminated Command Series switches and pilot lights. Legends are easily affixed to the translucent white button and are protected by the lens cap. The black lettering is back-lit by the lamp and the inscription is visible through the lens cap. This method of providing legends is also suitable in some applications using non-illuminated white (clear), yellow or orange lens caps.

Standard legends, listed below, are intended to be used with round, square or rectangular pushbuttons and pilot lights. Sold only in sheets of 10 identical legends.

LEGEND MODEL NUMBERS



| Tyco Electronics | Alcoswitch | |
|------------------|------------|-----|
| 6-1437569-3 | 616 | On |
| 6-1437569-2 | 616 | Off |

Note: Model numbers must include complete legend nomenclature.



Legend (film)

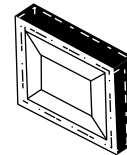
Accessories

MOUNTING WRENCH

Sturdy tubular brass wrench fits mounting nuts on all Command Series switches.



Tyco Electronics Alcoswitch
6-1437569-0 601-AG

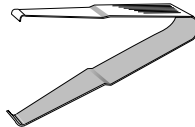


SPLASH PROOF SEAL
Flexible clear seal fits all rectangular pushbuttons and pilot lights.

Tyco Electronics Alcoswitch
9-1437569-2 668

LENS REMOVER

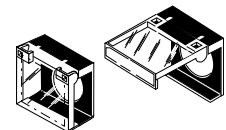
Dual purpose metal tool facilitates removal of lenses, buttons.



Tyco Electronics Alcoswitch
6-1437569-9 618-AG

FLIP COVER SWITCH GUARD

669 used with rectangular series pushbutton switches.
671 used with square and round series pushbutton switches.



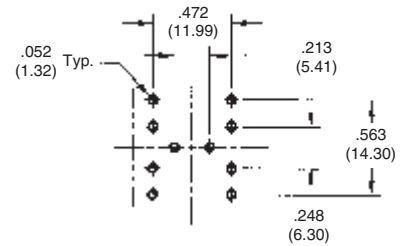
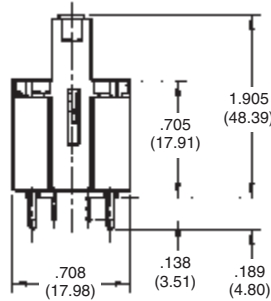
Tyco Electronics Alcoswitch
9-1437569-4 669 Rectangular
9-1437569-3 671-AG Square and Round

Socket for 16mm Command Series Switches

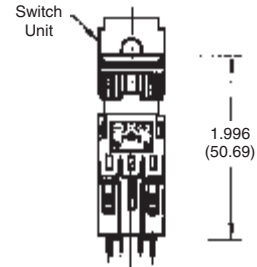
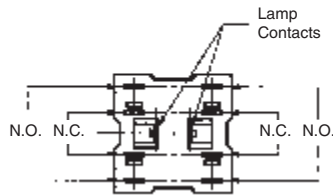
697-PL



9-1437569-5



Recommended PCB Footprint



T1 3/4 Series Midget Incandescent Lamps

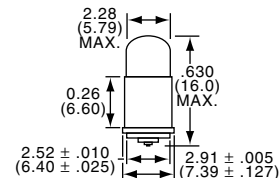
Average Life ratings indicate the lamp life obtained in controlled laboratory conditions while operating lamps at the design voltage (AC) (DC will shorten life by 50%). The life of a subminiature lamp is inversely proportional to the 12th power of the applied voltage.

ALCOSWITCH subminiature lamps are a "T" class, meaning that the envelopes are made of glass tubing, the "T" number indicating the diameter of the tubing in eighths of an inch.

Command Series

| Tyco Electronics | Alcoswitch | Rated Volts | Design Amps | Rated MSCP | Average Rated Hours |
|------------------|------------|-------------|-------------|------------|---------------------|
| 9-1437620-6 | 7333 | 5.0 | .060 | .05 | 40,000 |
| 1-1437620-8 | 815-AG | — | .115 | .147 | 40,000 |
| 1437620-7 | 381-AG | 6.3 | .20 | .40 | 50,000 |
| 1437620-8 | 382-AG | 14.0 | .08 | .30 | 50,000 |
| 1437620-9 | 385 | 28.0 | .04 | .20 | 50,000 |
| 1-1437620-1 | 387 | 28.0 | .04 | .30 | 25,000 |
| 1437620-5 | 327-AG | 28.0 | .04 | .34 | 7,000 |

FLANGE BASE- T1 3/4





SH6 Series - Page J3



PICOD Series - Page J4

Pushwheel



Pushwheel Switches

Pushwheel Switches Part Number Index

| | |
|--------------------------|---------------------|
| B11LSJ9,J10 | SMCADPJ9 |
| B12LJ11 | SMCDJ4,J6,J8 |
| B12LSJ11 | SMCD111AKJ9 |
| B5LJ7 | SMCD131AKJ9 |
| B5LSJ7,J8 | SMCD131AKLSJ9 |
| B9LJ9,J10 | SMCD131ALDJ9 |
| B9LSJ9,J10 | SMCD137AKJ9 |
| B9LS5PINJ9 | SMCD301AKJ9 |
| DPSJ6 | SMCLJ9 |
| DPS10J5,J11 | SMCPKJ9 |
| DPS10111AKJ11 | SP1.2J9, J10 |
| DPS10131AKJ11 | SP1.5J11 |
| DPS10131ALDJ11 | |
| DPS10137AKJ11 | |
| DPS10141AKJ11 | |
| DPS10301AKJ11 | |
| DPS10LJ11 | |
| DPS8J5,J10 | |
| DPS8111AKJ10 | |
| DPS8131AKJ10 | |
| DPS8131AKLSJ10 | |
| DPS8131AKULSJ10 | |
| DPS8131ALDJ10 | |
| DPS8137AKJ10 | |
| DPS8137AKLSJ10 | |
| DPS8137AKUJ10 | |
| DPS8137AKULSJ10 | |
| DPS8301AKJ10 | |
| DPS8301AKULSJ10 | |
| DPS8AJ10 | |
| DPS8LJ10 | |
| DPS8PJ10 | |
| DPS8PWJ10 | |
| DPS9J5,J11 | |
| DPS910AJ11 | |
| DPS910PJ11 | |
| DPS9111AKJ11 | |
| DPS9131AKJ11 | |
| DPS9131ALJ11 | |
| DPS9131ALDJ11 | |
| DPS9137AKJ11 | |
| DPS9301AKJ11 | |
| DPS9307AKJ11 | |
| DPS9LJ11 | |
| PICOAJ7 | |
| PICOADPJ7 | |
| PICOBGJ7 | |
| PICODJ4,J6,J8 | |
| PICOD111ALJ7 | |
| PICOD131AKJ7 | |
| PICOD131ALDJ7 | |
| PICOD131ALULSJ7,J8 | |
| PICOD137AKJ7 | |
| PICOD137ALULSJ7,J8 | |
| PICOD301AKJ7 | |
| PICOD301ALDJ7 | |
| PICOD301ALULSJ7,J8 | |
| PICOPJ7 | |
| SH131AKJ6 | |
| SH6J4,J6 | |
| SH6131AKJ6 | |
| SH6131AKK2J6 | |
| SMCAJ9 | |



Pushwheel Switches

Order Description and Code Tables (Wiring Diagram)

DPS10 - 131 - AK

| Series/types | Codes | Connections |
|--------------|------------------------|------------------------------|
| SH6 | 111 = Decimal | AK = pcb short |
| PICOD | 131 = BCD | AL = pcb long |
| SMCD | 137 = BCD Complement | LS = solder pin |
| DPS8 | 141 = BCD + Complement | AL/D = pcb long, interrupted |
| DPS9 | 301 = Hexadecimal | AKU = pcb long downward |
| DPS10 | 307 = Hexa. Complement | ALU = pcb long downward |
| | 400 = Switch-over | |

FACTORY ASSEMBLED GROUP

Special type numbers will be assigned for customers requiring delivery of assembled groups of code switches. These will be pre-tested, identified and individually packaged. Consult factory for details.

CUSTOM SWITCHES

Contact factory for information concerning the feasibility, pricing and delivery of special switches, including non-standard codes, limit stopping, special markings, PC terminals and optional colors.

Code tables (wiring diagram)

Code 131

| BCD | | | | | |
|-----|---|---|---|---|---|
| | C | 1 | 2 | 4 | 8 |
| 0 | ● | | | | |
| 1 | ● | ● | | | |
| 2 | ● | | ● | | |
| 3 | ● | ● | ● | | |
| 4 | ● | | | ● | |
| 5 | ● | ● | | ● | |
| 6 | ● | | ● | ● | |
| 7 | ● | ● | ● | ● | |
| 8 | ● | | | | ● |
| 9 | ● | | | | ● |

Code 137

| BCD Complement | | | | | |
|----------------|---|---|---|---|---|
| | C | 1 | 2 | 4 | 8 |
| 0 | ● | ● | ● | ● | ● |
| 1 | ● | ● | ● | ● | ● |
| 2 | ● | ● | ● | ● | ● |
| 3 | ● | | | ● | ● |
| 4 | ● | ● | ● | ● | ● |
| 5 | ● | ● | ● | ● | ● |
| 6 | ● | ● | ● | ● | ● |
| 7 | ● | | | ● | ● |
| 8 | ● | ● | ● | ● | ● |
| 9 | ● | ● | ● | ● | ● |

Code 141

| BCD + Compl. | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|
| | C | 1 | 2 | 4 | 8 | 1 | 2 | 4 | 8 |
| 0 | ● | | | | | ● | ● | ● | ● |
| 1 | ● | ● | | | | | | | |
| 2 | ● | | ● | | | ● | ● | ● | ● |
| 3 | ● | ● | ● | | | | | ● | ● |
| 4 | ● | | | ● | | ● | ● | ● | ● |
| 5 | ● | ● | ● | ● | | ● | ● | ● | ● |
| 6 | ● | ● | ● | ● | ● | | | ● | ● |
| 7 | ● | ● | ● | ● | ● | ● | | | ● |
| 8 | ● | | | | ● | ● | ● | ● | ● |
| 9 | ● | | | | ● | ● | ● | ● | ● |

Code 400

| change-over switch | | | |
|--------------------|---|----|----|
| | C | A+ | A- |
| + | ● | ● | |
| 1 | ● | | ● |
| 2 | ● | ● | |
| + | ● | ● | |
| - | ● | | ● |
| 4 | ● | ● | |
| + | ● | ● | |
| - | ● | | ● |
| 7 | ● | ● | |
| - | ● | | ● |
| 8 | ● | ● | |
| + | ● | ● | |
| - | ● | | ● |

Code 301

| Hexadecimal | | | | | |
|-------------|---|---|---|---|---|
| | 1 | 2 | 4 | 8 | C |
| 0 | | | | | ● |
| 1 | ● | | | | ● |
| 2 | ● | ● | | | |
| 3 | ● | ● | | | ● |
| 4 | | | ● | | ● |
| 5 | ● | ● | ● | | ● |
| 6 | ● | ● | ● | ● | ● |
| 7 | ● | ● | ● | ● | ● |
| 8 | | | | ● | ● |
| 9 | ● | | | ● | ● |
| A | ● | ● | ● | ● | ● |
| B | ● | ● | ● | ● | ● |
| C | | | ● | ● | ● |
| D | ● | ● | ● | ● | ● |
| E | ● | ● | ● | ● | ● |
| F | ● | ● | ● | ● | ● |

Code 307

| Hexadecimal Compl. | | | | | |
|--------------------|---|---|---|---|---|
| | C | 1 | 2 | 4 | 8 |
| 0 | ● | ● | ● | ● | ● |
| 1 | ● | ● | ● | ● | ● |
| 2 | ● | ● | ● | ● | ● |
| 3 | ● | | | ● | ● |
| 4 | ● | ● | ● | ● | ● |
| 5 | ● | ● | ● | ● | ● |
| 6 | ● | ● | ● | ● | ● |
| 7 | ● | | | ● | ● |
| 8 | ● | ● | ● | ● | ● |
| 9 | ● | ● | ● | ● | ● |
| A | ● | ● | ● | ● | ● |
| B | ● | | | ● | ● |
| C | ● | ● | ● | ● | ● |
| D | ● | ● | ● | ● | ● |
| E | ● | ● | ● | ● | ● |
| F | ● | ● | ● | ● | ● |

Code 111

| Decimal | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|
| | C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | ● | ● | | | | | | | | | |
| 1 | ● | | ● | | | | | | | | |
| 2 | ● | | | ● | | | | | | | |
| 3 | ● | | | | ● | | | | | | |
| 4 | ● | | | | | ● | | | | | |
| 5 | ● | | | | | | ● | | | | |
| 6 | ● | | | | | | | ● | | | |
| 7 | ● | | | | | | | | ● | | |
| 8 | ● | | | | | | | | | ● | |
| 9 | ● | | | | | | | | | | ● |

Specifications

| Series/Types Catalog Page | SH6 J6 | PICOD J7-8 | SMC-D J9 |
|---|--------------------|-------------------|-------------------|
| Dimensions/type of mounting | | | |
| panel / height x width | 15x6 mm | 15x7.62 mm | 24x7.62mm |
| installed depth width PCB, short/long | 23.5/30.8 mm | 24/34.5 mm | 32/42mm |
| insertion from the front | x | x | x |
| insertion from the rear | x | | |
| Codes | | | |
| Code | switching position | printing | |
| 111 decimal | 10 | 0-9 | x |
| 131 BCD | 10 | 0-9 | x |
| 137 BCD complement | 10 | 0-9 | x |
| 141 BCD + complement | 10 | 0-9 | x |
| 301 hexadecimal | 16 | 0-9-A-F (0-15) | x |
| 307 hexadecimal compl. | 16 | 0-9-A-F (0-15) | |
| 400 change-over switch | 10 | +, -, +-, etc. | x |
| Electrical data | | | |
| operating voltage max. | 40V | 40V | 40V |
| contact load, static max. | 0.5A | 0.5A | 1A |
| contact load, dynamic (resistive) max. | 100mA | 100mA | 100mA |
| contact resistance type AK (measured from the supply line to the output) | < 100 mOhm | < 100 mOhm | < 100 mOhm |
| Technical data | | | |
| permissible ambient temperature | -20...+80°C | -20...+60°C | -20...+80°C |
| expected life (switching cycles) | > 10 ⁵ | > 10 ⁵ | > 10 ⁶ |
| actuating force approx. | 4 N | 3 N | 4 N |
| weight approx. | 1.5 g | 2 g | 4 g |
| digit height 10-/16-digit | 3.1mm | 3.1/2.4mm | 4.9/3.4mm |
| click action (working point) | x | x | x |
| vibration DIN EN 60068-2-6 | x | x | x |
| shock DIN EN 60068-2-27 | x | x | x |
| Material | | | |
| housing: PPO UL94V-0 | x | x | x |
| pc board: base material FR 4 respectively CEM3 DIN IEC 249-2, contact surface Au over Ni on Cu | x | x | x |
| Connections | | | |
| AK: short | x | x | x |
| AL: long | x | x | x |
| LS: solder point | x | x | x |
| AL/D: long/interrupted | | x | |
| ALU: long downward | | x | x |

J

Specifications

Specifications

| Series/Types Catalog Page | | | DPS8 J10 | DPS9 J11 | DPS10 J11 |
|---|-----------------------|----------------|-------------------|-------------------|-------------------|
| Dimensions/type of mounting | | | | | |
| panel / height x width | | | 18x8mm | 33x8mm | 33x10mm |
| installed depth width PCB, short/long | | | 32/41mm | 39/50mm | 39/50mm |
| insertion from the front | | | x | x | |
| insertion from the rear | | | | x | |
| Codes | | | | | |
| Code | switching position | printing | | | |
| 111 decimal | 10 | 0-9 | x | x | x |
| 131 BCD | 10 | 0-9 | x | x | x |
| 137 BCD complement | 10 | 0-9 | x | x | x |
| 141 BCD + complement | 10 | 0-9 | x | | |
| 301 hexadecimal | 16 | 0-9-A-F (0-15) | x | x | x |
| 307 hexadecimal compl. | 16 | 0-9-A-F (0-15) | | | |
| 400 change-over switch | 10 | +, -, +-, etc. | | | |
| Electrical data | | | | | |
| operating voltage max. | | | 40V | 40V | 40V |
| contact load, static max. | | | 1A | 1A | 1A |
| contact load, dynamic (resistive) max. | | | 100mA | 100mA | 100mA |
| contact resistance type AK (measured from the supply line to the output) | | | < 100 mOhm | < 100 mOhm | < 100 mOhm |
| Technical data | | | | | |
| permissible ambient temperature | | | -20...+80°C | -20...+80°C | -20...+80°C |
| expected life (switching cycles) | | | > 10 ⁶ | > 10 ⁶ | > 10 ⁶ |
| actuating force approx. | | | 4 N | 4 N | 4 N |
| weight approx. | | | 4 g | 6.5 g | 7.5 g |
| digit height 10-/16-digit | | | 4.9/3.4mm | 6.8/4.3mm | 7.0/4.3mm |
| click action (working point) | | | x | x | x |
| vibration DIN EN 60068-2-6 | | | x | x | x |
| shock DIN EN 60068-2-27 | | | x | x | x |
| Material | | | | | |
| housing: PPO UL94V-0 | | | x | x | x |
| pc board: base material FR 4 respectively CEM3 DIN IEC 249-2, contact surface Au over Ni on Cu | | | x | x | x |
| Connections | | | | | |
| AK: short | | | x | x | x |
| AL: long | | | x | x | x |
| LS: solder point | | | x | x | x |
| AKU: short downward | | | | | x |
| ALU: long downward | | | x | | |



Pushwheel Switches, Subminiature, Panel Mount, Dual Button

SH6 Series pushwheel switches are the smallest panel mounted dual pushbutton code switches available. They have a snap-action detent with an audible click. The dual-purpose finger terminals may be used for direct mounting on printed circuit boards, or wire may be soldered directly to the gold-plated conductors. The SH6 is designed for several means of panel mounting: groups of any number of switches may be snapped into panel holes of proper size and retained by the integral clips (front mounting), or groups may be held in place in a panel hole by being supported from rear when the switches are PC mounted. These reliable switches are made to the same exacting requirements as the SMCD, PICOD and DPS Series.

MATERIAL SPECIFICATIONS

Moving ContactsGold-clad Ni over copper alloy
 Fixed ContactsAU over Ni
 PC BoardFR4 Glass Epoxy
 Molded PartsNoryl-SE1, black matte finish
 WindowThermoplastic resin

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating0.4 VA @ 20 VDC (max.)
 Contact Circuit Resistance0.12 ohm max.

PERFORMANCE CHARACTERISTICS

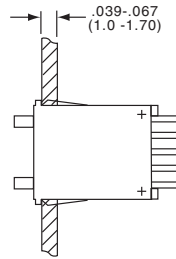
Operating ForceApprox. 11 oz.
 PC Terminal Spacing0.100"
 Character Height/Color.....0.118" White
 Life ExpectancyMore than 10⁵ operations
 Operating Temperature-20°C to +80°C

SH6 SERIES

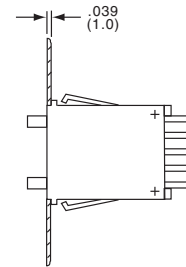


SH6131AK

FRONT MOUNTING
(See note below)



REAR MOUNTING



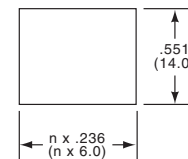
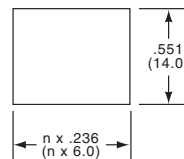
SH6 - 131 - AK

Codes

131 = BCD
 137 = BCD Complement

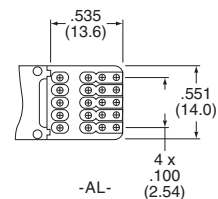
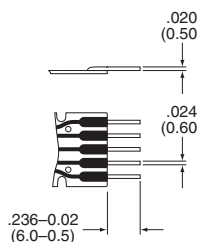
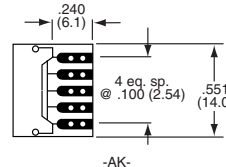
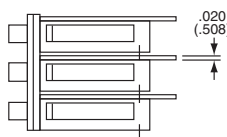
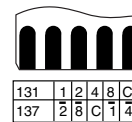
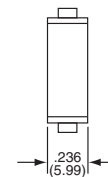
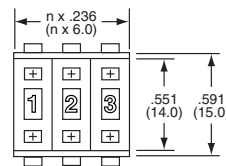
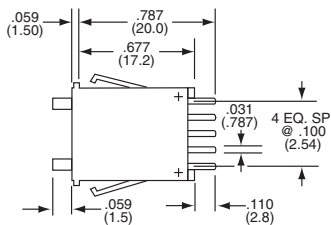
Connections

AK = pcb short
 AL = pcb long
 LS = solder pin



See Code Tables on Page J3

n = Number of switches



Note: Remove locating lugs from side of last switch to enable mounting from the front panel.

Note: Use Card Edge Connector B5LS or B5L with AK type.

Pushwheel Switches, Subminiature, Panel Mount, Dual Button

The PICOD family offers small panel-mounted pushwheel code switches, ideally suited for high density applications. They are used for the controlling and programming of frequency synthesizers, counters and timers, data comparators, security encoders, weighing machines, etc. The dependable pushbutton action allows narrow 0.3 inch width on panel. Changes to higher or lower settings are accomplished rapidly by successive operation of the appropriate buttons. The featherweight PICOD is less than 0.6 inch high, yet rugged enough for hand-held and portable instruments that may be subjected to field abuse. Heavy gold plating on wiping contacts affords low contact resistance for reliable operation over long periods of service. Easy-to-read characters are viewed through dust-sealed window. Installation costs are minimized by snap-together design – no inconvenient hardware.

MATERIAL SPECIFICATIONS:

Fixed Contacts1 microns AU over Ni over Cu
 Moving ContactsGold-clad Ni over copper alloy
 PC BoardFR4 Glass epoxy
 Molded PartsNoryl-SE1, Black matte finish
 WindowThermoplastic resin

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC max.
 Contact Circuit Resistance0.15 Ohm max.
 Operating ForceApprox. 11 oz.
 PC Terminal Spacing0.100"
 Character Height/Color122" White (.094" for hex codes)
 Life ExpectancyMore than 10⁵ operations
 Operating temperature-10° C to + 60° C

PICOD - 131 - AK

| Codes | Connections |
|------------------------|------------------------------|
| 111 = Decimal | AK = pcb short |
| 131 = BCD | AL = pcb long |
| 137 = BCD Complement | LS = solder pin |
| 301 = Hexadecimal | AL/D = pcb long, interrupted |
| 307 = Hexa. Complement | ALU = pcb long downward |
| 400 = Switch-over | |

See Code Tables on Page J3



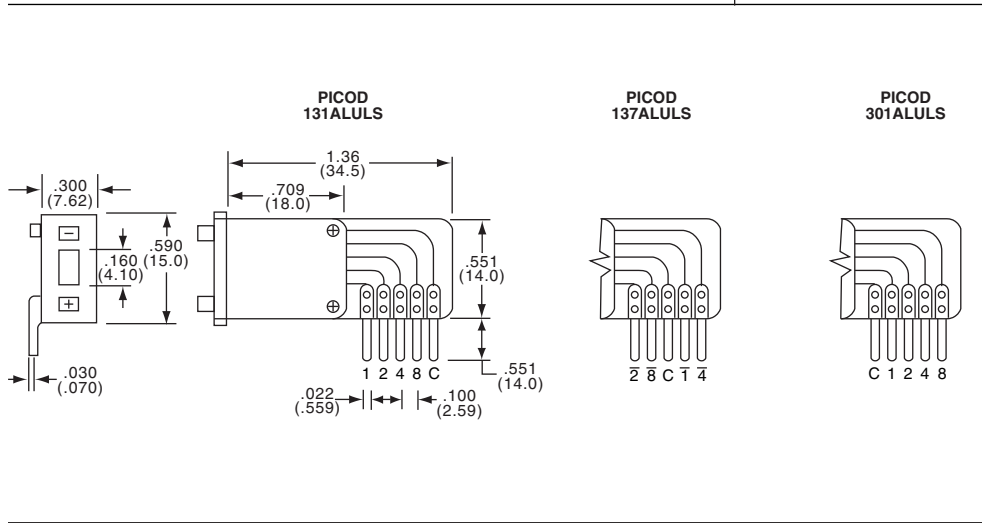
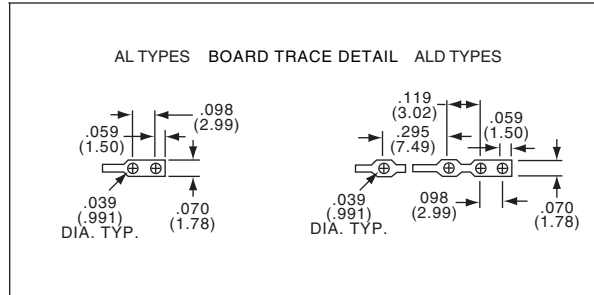
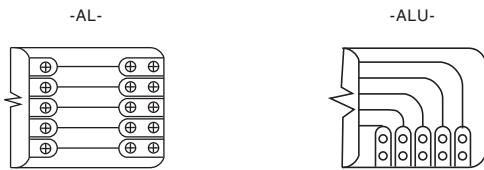
PICOD111AL

ACCESSORIES

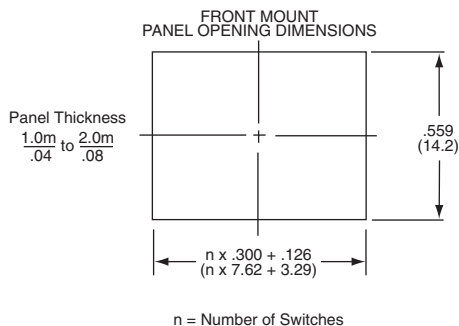
| Front Mount Snap Detent | Description | Wheel Marks |
|-------------------------|--|-------------|
| PICOA | Spacer, 0.1" wide | |
| PICOADP | Spacer, 0.1" wide, with decimal point | |
| PICOBG | Spacer, 0.3" wide (same size as switch) | |
| PICOP | End-plate pair | |
| B5LS | 5 pin connector with PC pins for AK types | |
| B5L | 5 pin connector with wire lug termination for AK types | |

Pushwheel Switches, Options

PICOD



PICOD



J
PICOD Series

Pushwheel Switches, Mini, Front Mount

SMCD Series have large visible readout characters despite it's small size. This popular family is used in measurement and test instrumentation for range setting, data programming and count controlling; and in communications equipment for digital tuning. The simple, reliable bi-direction pushbutton mechanism permits rapid changes to either higher or lower numerical settings. Instrument-grade performance and long service life are enhanced by the heavy gold wiping contacts. Large readout characters are protected by dust-sealed windows. Snap-together grouping and snap-in panel mounting minimize installation time and cost. SMCD models have snap detent with slight audible click.

SMCD bi-directional code switches may be easily assembled into groups of any number. The tabs or pins of one decade section press fit into the holes in the adjacent section. Spacers and end mounting plates may be included in the same manner as desired.

Groups of SMCD switches with end plates snap into panel holes of the recommended size and are retained by plastic clips. Again, tools and additional hardware items are not required.

MATERIAL SPECIFICATIONS:

PC BoardGlass epoxy type, FR4
 PC TerminalsGold over Ni on Cu
 Character Height/Color.....White on black background
 SMC .197/.134; SMCD .193/.134
 Except 301 & SG558: .140 and
 SG557 .120
 Molded partsNoryl-SE1, Black matte finish
 HousingBlack matte finish

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC or Peak AC
 Contact Circuit Resistance0.12 Ohm max. (Total internal ckt. res.)
 Mechanical LifeMore than 10⁶ operations
 Operational ForceApprox. 14 oz.

ENVIRONMENTAL SPECIFICATIONS

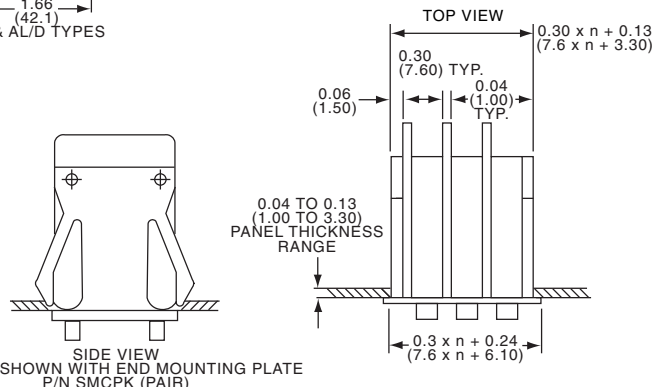
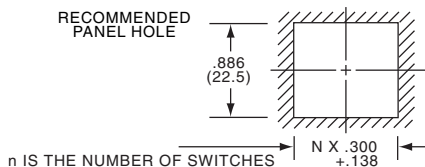
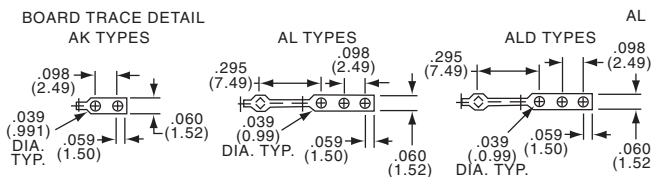
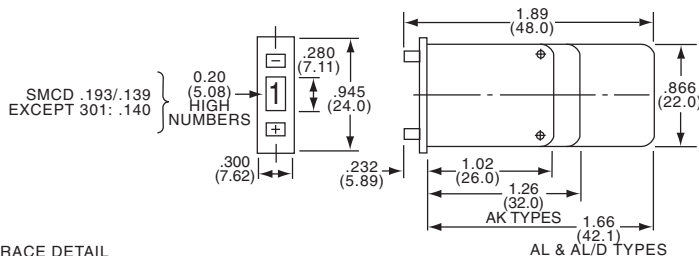
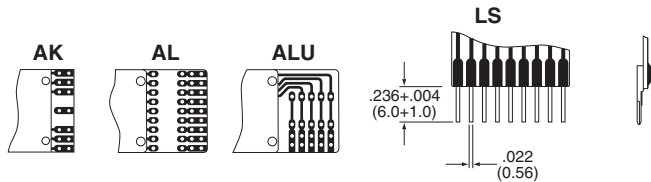
Operating Temperature.....(-20°C to +80°C)

| Model | Description |
|----------|---|
| SMCPK | End mounting plates (pair) |
| SMCL | 300" spacer section |
| SMCA | .100" spacer (with mounting clips) |
| SMCADP | .100" spacer, decimal point (with mounting clips) |
| B9L | Connector, 9 contacts, solder lug terminals |
| B9LS | Connector, 9 contacts, PC pins |
| B9LS5PIN | Connector, 5 contacts, PC pins |
| B11LS | Connectors, 11 contacts, PC pins (for 111) |
| SP1.2 | Limit stop pin for SMD 10 position only |

SMCD - 131 - AK

| Codes | Connections |
|------------------------|-------------------------|
| 111 = Decimal | AK = pcb short |
| 131 = BCD | AL = pcb long |
| 137 = BCD Complement | LS = solder pin |
| 141 = BCD + Complement | ALU = pcb long downward |
| 301 = Hexadecimal | |

See Code Tables on Page J3



Pushwheel Switches, Mini, Rear Mount

The DPS8 Series is a compact, lower cost family of instrument grade, pushbutton code switches for numerical input applications. DPS8 models are similar in size to those of the SMCD Series and also feature a fast-snap-together assembly with conventional behind-the-panel mounting. A simple reliable bidirectional pushbutton mechanism allows rapid changes to either higher or lower numerical setting. Reliable performance in logic level circuits and long service life are provided by gold clad wiping contacts. A dust-sealed window protects the readout characters, which are larger than those of comparable thumbwheel switches. DPS8 switches have snap-action detent.

MATERIAL SPECIFICATIONS

PC BoardGlass epoxy type, FR4
 PC Terminal SpacingDSP811: .079", 131,137, 141: .100"
 Character Height/Color0.193" White on black background
 HousingNoryl-SE1, Black, matte finish
 Operating ForceApprox. 14 oz.

TYPICAL PERFORMANCE CHARACTERISTICS

Contact Rating0.4 VA @ 20 VDC or Peak AC
 Contact Circuit Resistance ...0.15 ohms max.
 Mechanical LifeMore than 10⁶ operations

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature(-20°C to +80°C)

MODULE ASSEMBLY METHOD

DPS bi-directional code switches may be easily assembled into groups of any number. Each switch, spacer or end-plate pair has appropriate snap-together assembly. No tools are required, little time consumed.

Groups of DPS8 switches, with end-plates mount into panel holes of the recommended size using four screws plus nuts and washers.

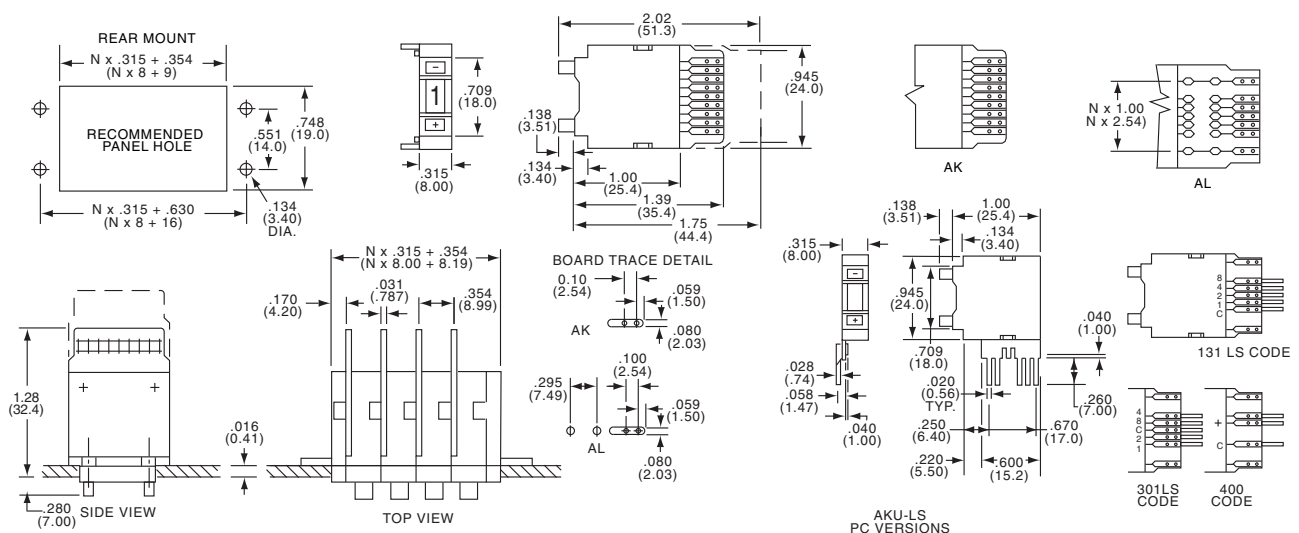
ACCESSORIES

| Model | Description |
|--------|--|
| DPS8A | Spacer .157" (4mm) |
| DPS8L | .315" spacer section |
| DPS8P | End mounting plates, decorative only (pair) |
| DPS8PW | End mounting plates, flanged with mounting holes (pair) |
| B9L | Connector, 9 contacts, solder lug terminals |
| B9LS | Connector, 9 contacts, pc terminals |
| B11LS | Connector, 11 contacts, PC terminals (for Code III Switch) |
| SP1.2 | Limit stop pin for 10 position only. |

DPS8 - 131 - AK

| Codes | Connections |
|------------------------|--------------------------|
| 111 = Decimal | AK = pcb short |
| 131 = BCD | AL = pcb long |
| 137 = BCD Complement | LS = solder pin |
| 141 = BCD + Complement | AKU = pcb short downward |
| 301 = Hexadecimal | ALU = pcb long downward |

See Code Tables on Page J3



DPS8 Series

Pushwheel Switches, Front Mount

DPS9 and DPS10 dual pushbutton code switches have identical heights but differ in width. These switches provide silent, reliable state-of-the-art bi-directional operation and can directly retrofit common thumbwheel switches. The readout characters are up to 60% larger than those of comparable thumbwheels. DPS9 models have the popular .315" per section width, and DPS10 types are .395" wide.

A simple reliable dual pushbutton mechanism permits rapid change to a higher or a lower numerical setting. Gold clad wiping contacts provide dependable low-level operation and extended life expectancy. Snap-together modular design enables fast assembly hardware. Wheel markings are protected by a dust-sealed window.

MATERIAL SPECIFICATIONS:

PC BoardGlass epoxy type, FR4
 PC Terminal Spacing100" Centers on integral multiples
 Character Height/ColorSee below
 HousingNoryl-SE1, Black, matte finish

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC or Peak AC
 Contact Circuit Resistance ...0.20 Ohm max.
 Mechanical LifeMore than 10⁶ operations
 Operating ForceApprox. 16 oz.

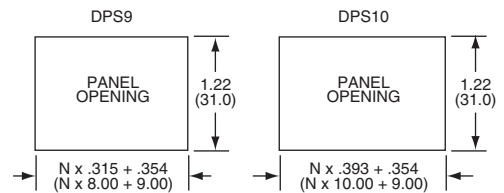
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature(-20°C to +80°C)

ACCESSORIES

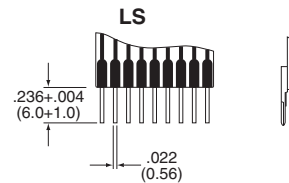
| DPS9 Model | DPS10 Model | Description |
|------------|-------------|--|
| DPS910A | DPS910A | Spacer, 0.1 inch |
| | DPS10 | *Dummy switch (no electrical function) |
| DPS9L | DPS10L | Spacer, same width as switch |
| **DPS910P | **DPS910P | End mounting plate pair |
| B12L | B12L | Connector, 12 contacts, solder lugs |
| B12LS | B12LS | Connector, 12 contacts, PC terminals |
| SP1.5 | SP1.5 | Limit stop pin for 10 position switch |

* Indicates switch mechanically operable, optionally available with wheel in fixed position.; ** Indicates sold in pairs only.

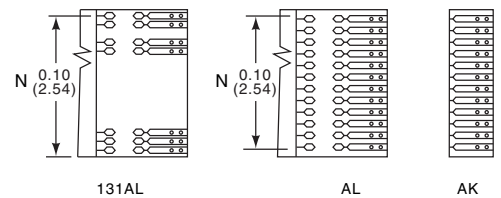
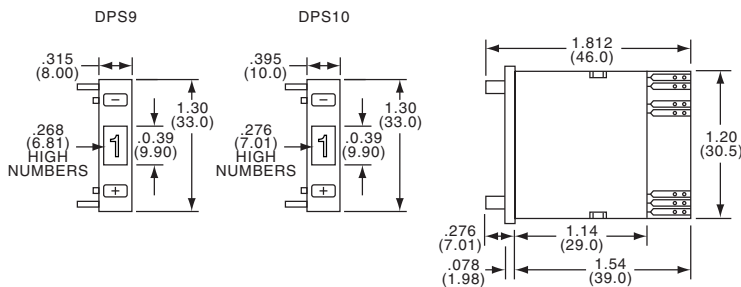


DPS9 - 131 - AK

| Series/types | Codes | Connections |
|--------------|----------------------|-----------------|
| DPS9 | 111 = Decimal | AK = pcb short |
| DPS10 | 131 = BCD | AL = pcb long |
| | 137 = BCD Complement | LS = solder pin |
| | 301 = Hexadecimal | |



See Code Tables on Page J3



| | | |
|------------------------|-------------|---------------|
| Character height . . . | Model DPS9 | 10 digit .268 |
| | | 16 digit .169 |
| | Model DPS10 | 10 digit .276 |
| | | 16 digit .169 |

Engineering Notes



Engineering Notes



K Series - Page K4



KCB Series - Page K5



KE Series - Page K6



KLNS Series - Page K8



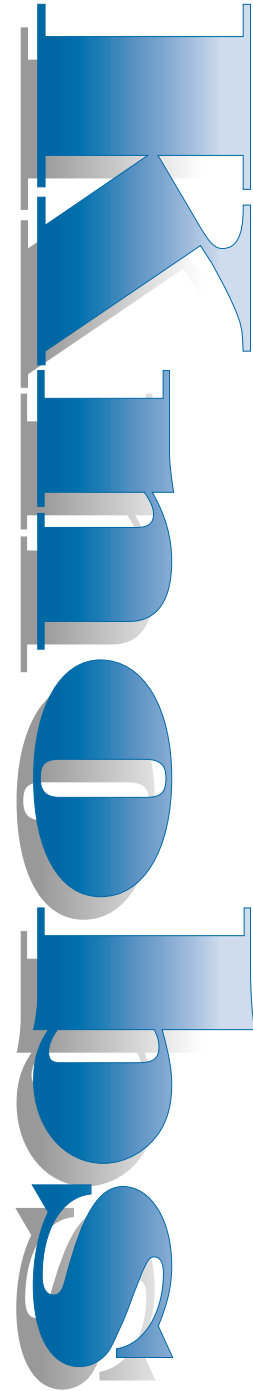
KN Series - Page K8



PK Series - Page K13



PKD Series - Page K14



Alcoknob Part Number Index

K1250A1/4K4
 K1250B1/4K4
 K1251B1/4K4
 K1255AS1/4K4
 K1255BS1/4K4
 K500A1/4K4
 K500A1/8K4
 K500B1/4K4
 K500B1/8K4
 K700A1/4K4
 K700B1/4K4
 K900A1/4K4
 K900B1/4K4
 KA1250A1/4K4
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 KN1751BS1/4K8
 KN1755ABS1/4K9
 KN1755AS1/4K9
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 KPN900B1/4K10
 KR1K21
 KR2K21
 KR3K21
 KS500A1/4K10
 KS500A1/8K10
 KS500B1/4K10
 KS500B1/8K10
 KS700A1/4K10
 KS700B1/4K10
 KS900A1/4K10
 KS900B1/4K10
 KT500A1/4K11
 KT500B1/4K11
 KT500B1/8K11
 KT700A1/4K11
 KT700B1/4K11
 KT900A1/4K11
 KT900B1/4K11
 KU401B1/8K11
 KU402B1/8K11
 KU500B1/4K11
 KU500B1/8K11
 KU700B1/4K11
 KUS402B1/8K11
 KUS500B1/4K11
 KUS500B1/8K11
 KUS700B1/4K11
 PH15181/4K12
 PK1100B1/8K12
 PK50B1/4K12
 PK50B1/8K12
 PK70B1/4K12
 PK90B1/4K12
 PKA50B1/4K13
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 PKA55B1/4K13
 PKA55B1/8K13
 PKA70B1/4K13
 PKA90B1/4K13
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 PKAP70B1/4K13
 PKB70B1/4K14
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 PKE90B1/4K15
 PKES120B1/4K15
 PKES140B1/4K15
 PKES150B1/4K15
 PKES60B1/4K15
 PKES60B1/8K15
 PKES70B1/4K15
 PKES90B1/4K15
 PKF50B1/8K16
 PKG100B1/4K17
 PKG1255B1/4K17
 PKG40B1/8K16
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 PKJT70B1/4K18
 PKN60B1/4K18
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 PKS1132B51/4K19
 PKS1132B91/4K19
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 PKS90B101/4K20
 PKX100B1/4K20
 PKX110B1/4K20
 PKX130B1/4K20
 PKX50B1/4K20
 PKX50B1/8K20
 PKX60B1/4K20
 PKX60B1/8K20

K
Alcoknob

General Knob Information

SPECIFICATIONS**A. STANDARD KNOB TYPES**

1. **INSPECTION CRITERIA** - Normal inspection is performed without magnification while holding knob at a distance of 12 to 14 inches for a period of 5 seconds, under normal light. The following imperfections are not acceptable:
 - Finish: visible marks or scratches, runs, or non-uniform coverage.
 - Artwork: voids, specks, bleeding or other inconsistencies
2. **MATERIALS** -
 - K Series: Machined aluminum alloy stock
Finish: gloss anodize
Setscrews: Stainless steel, type 303, hex head, cup point
 - P Series: General purpose phenolic (thermoset) (Max. Temp. 120-125°C continuous)
Finish: Gloss (except PKX, matte)
Insert: Brass
Setscrews: Stainless steel, hex head, cup point
Inlays: Skirts: Aluminum alloy, spun finish

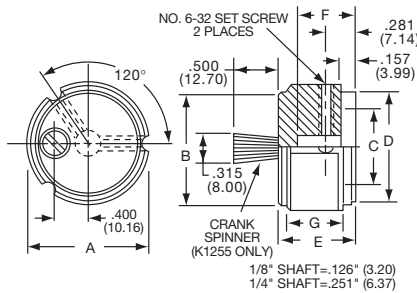
B. CUSTOM TYPES

1. **ALUMINUM**
 - Configuration - most semi-standard or custom designs can be machined. A drawing is required to provide a quotation. Non-standard shaft hole diameters are available also.
 - Finish - Anodizing or paint of various colors can be provided. A color chip is required to ensure proper color shade.
 - Artwork - alpha-numeric lettering, indicator lines, markings, etc. can be provided. Silkscreening and other processes are available.
2. **PHENOLIC**
 - Configuration - most custom styles can be molded.
 - Colors - various custom colored standard knobs can be provided. Color chip is required.
 - Artwork - lettering, markings, etc. can be provided.

Knobs, Machined Aluminum

K SERIES

K700B1/4



| Tyco 3 Flute Design with and without Indicator Line | | | | | | | | | |
|--|------------|---------|------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 1437621-7 | K500A1/8 | Natural | .500(12.7) | .430(10.9) | .374(9.50) | .430(10.9) | .625(15.9) | .429(10.9) | .512(13.0) |
| 1437621-6 | K500A1/4 | Natural | .500(12.7) | .430(10.9) | .374(9.50) | .430(10.9) | .625(15.9) | .429(10.9) | .512(13.0) |
| 1437621-9 | K500B1/8 | Black | .500(12.7) | .430(10.9) | .374(9.50) | .430(10.9) | .625(15.9) | .429(10.9) | .512(13.0) |
| 1437621-8 | K500B1/4 | Black | .500(12.7) | .430(10.9) | .374(9.50) | .430(10.9) | .625(15.9) | .429(10.9) | .512(13.0) |
| 1-1437621-0 | K700A1/4 | Natural | .740(18.8) | .655(16.6) | .591(15.0) | .655(16.6) | .625(15.9) | .429(10.9) | .512(13.0) |
| 1-1437621-1 | K700B1/4 | Black | .740(18.8) | .655(16.6) | .591(15.0) | .655(16.6) | .625(15.9) | .429(10.9) | .512(13.0) |
| 1-1437621-3 | K900A1/4 | Natural | .937(23.8) | .817(20.8) | .709(18.0) | .817(20.8) | .625(15.9) | .429(10.9) | .512(13.0) |
| 1-1437621-4 | K900B1/4 | Black | .937(23.8) | .817(20.8) | .709(18.0) | .817(20.8) | .625(15.9) | .429(10.9) | .512(13.0) |
| 1437621-2 | K1250A1/4 | Natural | 1.25(31.8) | 1.11(28.2) | .984(25.0) | 1.11(28.2) | .750(19.1) | .554(14.1) | .630(16.0) |
| 1437621-3 | K1250B1/4 | Black | 1.25(31.8) | 1.11(28.2) | .984(25.0) | 1.11(28.2) | .750(19.1) | .554(14.1) | .630(16.0) |
| Less Indicator | | | | | | | | | |
| 1437621-4 | K1251B1/4 | Black | 1.25(31.8) | 1.11(28.2) | .984(25.0) | 1.11(28.2) | .750(19.1) | .554(14.1) | .630(16.0) |
| With Crank Spinner + Less Indicator | | | | | | | | | |
| | K1255A1/4 | Natural | 1.25(21.8) | 1.11(28.2) | .984(25.0) | 1.11(28.2) | .750(19.1) | .554(14.1) | .630(16.0) |
| 1437621-5 | K1255B1/4 | Black | 1.25(31.8) | 1.11(28.2) | .984(25.0) | 1.11(28.2) | .750(19.1) | .554(14.1) | .630(16.0) |

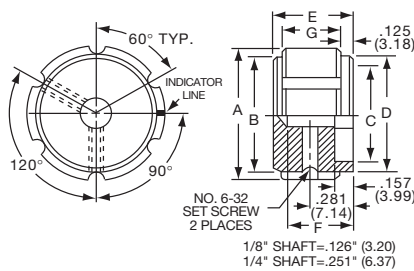
KA SERIES



KA500A1/4

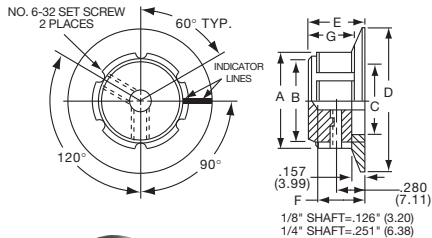


KA700B1/4



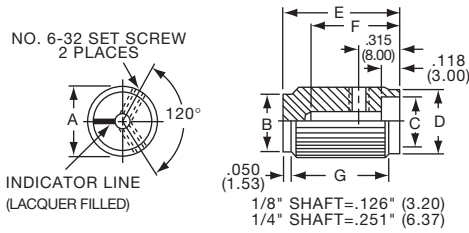
| Tyco 6 Flute Design with Indicator Line | | | | | | | | | |
|--|------------|---------|------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 2-1437621-0 | KA500A1/8 | Natural | .500(12.7) | .430(10.9) | .375(9.53) | .430(10.9) | .625(15.9) | .512(13.0) | .430(10.9) |
| 1-1437621-9 | KA500A1/4 | Natural | .500(12.7) | .430(10.9) | .375(9.53) | .430(10.9) | .625(15.9) | .512(13.0) | .430(10.9) |
| 2-1437621-2 | KA500B1/8 | Black | .500(12.7) | .430(10.9) | .375(9.53) | .430(10.9) | .625(15.9) | .512(13.0) | .430(10.9) |
| 2-1437621-1 | KA500B1/4 | Black | .500(12.7) | .430(10.9) | .375(9.53) | .430(10.9) | .625(15.9) | .512(13.0) | .430(10.9) |
| 2-1437621-3 | KA700A1/4 | Natural | .750(19.1) | .655(16.6) | .590(15.0) | .655(16.6) | .625(15.9) | .512(13.0) | .430(10.9) |
| 2-1437621-4 | KA700B1/4 | Black | .750(19.1) | .655(16.6) | .590(15.0) | .655(16.6) | .625(15.9) | .512(13.0) | .430(10.9) |
| 2-1437621-5 | KA900A1/4 | Natural | .937(23.8) | .817(20.8) | .700(17.8) | .817(20.8) | .625(15.9) | .512(13.0) | .430(10.9) |
| 2-1437621-6 | KA900B1/4 | Black | .937(23.8) | .817(20.8) | .700(17.8) | .817(20.8) | .625(15.9) | .512(13.0) | .430(10.9) |
| | KA1250A1/4 | Natural | 1.25(31.8) | 1.11(28.2) | .985(25.0) | 1.11(28.2) | .750(19.1) | .630(16.0) | .554(14.1) |
| 1-1437621-8 | KA1250B1/4 | Black | 1.25(31.8) | 1.11(28.2) | .985(25.0) | 1.11(28.2) | .750(19.1) | .630(16.0) | .554(14.1) |

KAS SERIES



| Tyco 6 Flute Design with Aluminum Skirt and Indicator Lines | | | | | | | | | |
|--|------------|---------|------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 2-1437621-8 | KAS500A1/8 | Natural | .500(12.7) | .430(10.9) | .380(9.65) | .740(18.8) | .630(16.0) | .510(13.0) | .430(10.9) |
| 2-1437621-7 | KAS500A1/4 | Natural | .500(12.7) | .430(10.9) | .380(9.65) | .740(18.8) | .630(16.0) | .510(13.0) | .430(10.9) |
| 3-1437621-0 | KAS500B1/8 | Black | .500(12.7) | .430(10.9) | .380(9.65) | .740(18.8) | .630(16.0) | .510(13.0) | .430(10.9) |
| 2-1437621-9 | KAS500B1/4 | Black | .500(12.7) | .430(10.9) | .380(9.65) | .740(18.8) | .630(16.0) | .510(13.0) | .430(10.9) |
| 3-1437621-1 | KAS700A1/4 | Natural | .750(19.1) | .650(16.5) | .590(15.0) | 1.14(29.0) | .630(16.0) | .510(13.0) | .430(10.9) |
| 3-1437621-2 | KAS700B1/4 | Black | .750(19.1) | .650(16.5) | .590(15.0) | 1.14(29.0) | .630(16.0) | .510(13.0) | .430(10.9) |
| 3-1437621-3 | KAS900A1/4 | Natural | .940(23.9) | .820(20.8) | .710(18.0) | 1.40(35.6) | .630(16.0) | .510(13.0) | .430(10.9) |
| 3-1437621-4 | KAS900B1/4 | Black | .940(23.9) | .820(20.8) | .710(18.0) | 1.40(35.6) | .630(16.0) | .510(13.0) | .430(10.9) |

Knobs, Machined Aluminum



KB SERIES

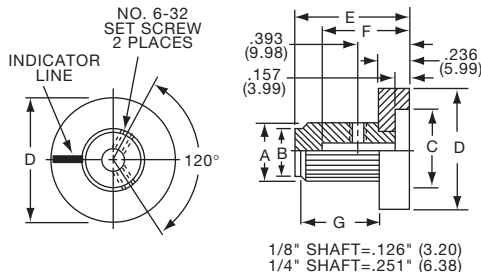


KB500A1/4



KB900B1/4

| Tyco | | Control Knob with Straight Knurl and Top Line Indicator | | | | | | | |
|-------------|------------|---|------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 3-1437621-6 | KB500A1/8 | Natural | .500(12.7) | .433(11.0) | .394(10.0) | .472(12.0) | .787(20.0) | .630(16.0) | .610(15.5) |
| 3-1437621-5 | KB500A1/4 | Natural | .500(12.7) | .433(11.0) | .394(10.0) | .472(12.0) | .787(20.0) | .630(16.0) | .610(15.5) |
| 3-1437621-9 | KB500B1/8 | Black | .500(12.7) | .433(11.0) | .394(10.0) | .472(12.0) | .787(20.0) | .630(16.0) | .610(15.5) |
| 3-1437621-8 | KB500B1/4 | Black | .500(12.7) | .433(11.0) | .394(10.0) | .472(12.0) | .787(20.0) | .630(16.0) | .610(15.5) |
| 4-1437621-0 | KB700A1/4 | Natural | .750(19.0) | .673(17.1) | .581(15.0) | .705(17.9) | .787(20.0) | .630(16.0) | .610(15.5) |
| 4-1437621-2 | KB700B1/4 | Black | .750(19.0) | .673(17.1) | .581(15.0) | .705(17.9) | .787(20.0) | .630(16.0) | .610(15.5) |
| 4-1437621-4 | KB900A1/4 | Natural | .930(23.6) | .866(22.0) | .710(18.0) | .902(22.9) | .787(20.0) | .630(16.0) | .610(15.5) |
| 4-1437621-5 | KB900B1/4 | Black | .930(23.6) | .866(22.0) | .710(18.0) | .902(22.9) | .787(20.0) | .630(16.0) | .610(15.5) |

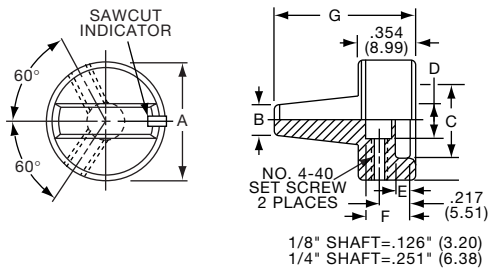


KBS SERIES



KBS500A101/4

| Tyco | | Control Knob with Straight Knurl and Skirt | | | | | | | |
|--------------------------------|--------------|--|------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| With 0-9 Numerals (36°) | | | | | | | | | |
| 4-1437621-9 | KBS500A101/8 | Natural | .500(12.7) | .433(11.0) | .708(18.0) | 1.00(25.4) | .950(24.1) | .826(21.0) | .655(16.7) |
| | KBS500A101/4 | Natural | .500(12.7) | .433(11.0) | .708(18.0) | 1.00(25.4) | .950(24.1) | .826(21.0) | .655(16.7) |
| 5-1437621-3 | KBS500B101/8 | Black | .500(12.7) | .433(11.0) | .708(18.0) | 1.00(25.4) | .950(24.1) | .826(21.0) | .655(16.7) |
| 5-1437621-2 | KBS500B101/4 | Black | .500(12.7) | .433(11.0) | .708(18.0) | 1.00(25.4) | .950(24.1) | .826(21.0) | .655(16.7) |
| With Indicator Line | | | | | | | | | |
| 4-1437621-8 | KBS500A1/8 | Natural | .500(12.7) | .433(11.0) | .708(18.0) | 1.00(25.4) | .950(24.1) | .826(21.0) | .655(16.7) |
| 4-1437621-7 | KBS500A1/4 | Natural | .500(12.7) | .433(11.0) | .708(18.0) | 1.00(25.4) | .950(24.1) | .826(21.0) | .655(16.7) |
| 5-1437621-1 | KBS500B1/8 | Black | .500(12.7) | .433(11.0) | .708(18.0) | 1.00(25.4) | .950(24.1) | .826(21.0) | .655(16.7) |
| 5-1437621-0 | KBS500B1/4 | Black | .500(12.7) | .433(11.0) | .708(18.0) | 1.00(25.4) | .950(24.1) | .826(21.0) | .655(16.7) |



KCB SERIES



KCB500A1/4



KCB700B1/4

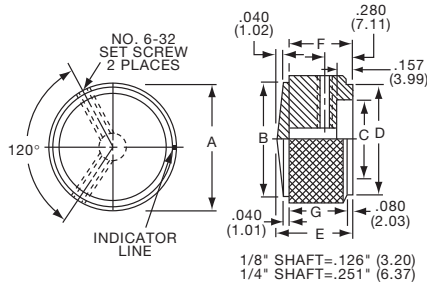
| Tyco | | Control Knob with Sawcut Indicator | | | | | | | |
|-------------|------------|------------------------------------|------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 5-1437621-7 | KCB500A1/8 | Natural | .500(12.7) | .197(5.08) | .374(9.50) | .126(3.20) | .118(3.00) | .335(8.51) | .750(19.1) |
| 5-1437621-6 | KCB500A1/4 | Natural | .500(12.7) | .197(5.08) | .374(9.50) | .126(3.20) | .118(3.00) | .335(8.51) | .750(19.1) |
| 5-1437621-9 | KCB500B1/8 | Black | .500(12.7) | .197(5.08) | .374(9.50) | .126(3.20) | .118(3.00) | .335(8.51) | .750(19.1) |
| 5-1437621-8 | KCB500B1/4 | Black | .500(12.7) | .197(5.08) | .374(9.50) | .126(3.20) | .118(3.00) | .335(8.51) | .750(19.1) |
| 6-1437621-0 | KCB600A1/8 | Natural | .618(15.7) | .197(5.08) | .394(10.0) | .126(3.20) | .118(3.00) | .335(8.51) | .750(19.1) |
| | KCB600A1/4 | Natural | .618(15.7) | .197(5.08) | .394(10.0) | .126(3.20) | .118(3.00) | .335(8.51) | .750(19.1) |
| 6-1437621-2 | KCB600B1/8 | Black | .618(15.7) | .197(5.08) | .394(10.0) | .126(3.20) | .118(3.00) | .335(8.51) | .750(19.1) |
| 6-1437621-1 | KCB600B1/4 | Black | .618(15.7) | .197(5.08) | .394(10.0) | .126(3.20) | .118(3.00) | .335(8.51) | .750(19.1) |
| 6-1437621-3 | KCB700A1/4 | Natural | .746(18.8) | .197(5.08) | .512(13.0) | .250(6.35) | .118(3.00) | .335(8.51) | .898(22.8) |
| 6-1437621-4 | KCB700B1/4 | Black | .746(18.8) | .197(5.08) | .512(13.0) | .250(6.35) | .118(3.00) | .335(8.51) | .898(22.8) |
| 6-1437621-5 | KCB900A1/4 | Natural | .937(23.8) | .197(5.08) | .709(18.0) | .250(6.35) | .118(3.00) | .335(8.51) | .898(22.8) |
| 6-1437621-7 | KCB900B1/4 | Black | .937(23.8) | .197(5.08) | .709(18.0) | .250(6.35) | .118(3.00) | .335(8.51) | .898(22.8) |

Knobs, Machined Aluminum

KD SERIES



KD1250B1/4

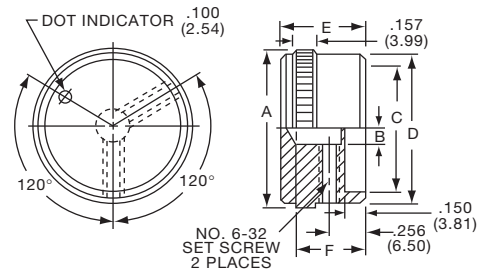


| Tyco Diamond Knurl with Indicator Line | | | | | | | | | |
|--|------------|---------|------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 7-1437621-1 | KD500A1/8 | Natural | .500(12.7) | .430(10.9) | .380(9.65) | .430(10.9) | .630(16.0) | .510(13.0) | .470(11.9) |
| 7-1437621-0 | KD500A1/4 | Natural | .500(12.7) | .430(10.9) | .380(9.65) | .430(10.9) | .630(16.0) | .510(13.0) | .470(11.9) |
| 7-1437621-3 | KD500B1/8 | Black | .500(12.7) | .430(10.9) | .380(9.65) | .430(10.9) | .630(16.0) | .510(13.0) | .470(11.9) |
| 7-1437621-2 | KD500B1/4 | Black | .500(12.7) | .430(10.9) | .380(9.65) | .430(10.9) | .630(16.0) | .510(13.0) | .470(11.9) |
| 7-1437621-4 | KD700A1/4 | Natural | .750(19.1) | .660(16.8) | .590(15.0) | .660(16.8) | .630(16.0) | .510(13.0) | .470(11.9) |
| 7-1437621-5 | KD700B1/4 | Black | .750(19.1) | .660(16.8) | .590(15.0) | .660(16.8) | .630(16.0) | .510(13.0) | .470(11.9) |
| 7-1437621-6 | KD900A1/4 | Natural | .940(23.9) | .820(20.8) | .710(18.0) | .820(20.8) | .630(16.0) | .510(13.0) | .470(11.9) |
| 7-1437621-7 | KD900B1/4 | Black | .940(23.9) | .820(20.8) | .710(18.0) | .820(20.8) | .630(16.0) | .510(13.0) | .470(11.9) |
| 6-1437621-8 | KD1250A1/4 | Natural | 1.25(31.8) | 1.11(28.2) | .980(24.9) | 1.11(28.2) | .750(19.1) | .630(16.0) | .590(15.0) |
| 6-1437621-9 | KD1250B1/4 | Black | 1.25(31.8) | 1.11(28.2) | .980(24.9) | 1.11(28.2) | .750(19.1) | .630(16.0) | .590(15.0) |

KE SERIES



KE900AB1/4



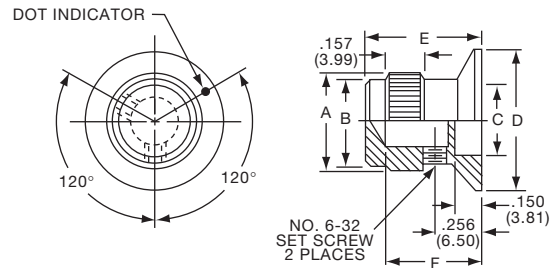
KE500AB1/4

| Tyco Knurl Grip with Top Dot Indicator | | | | | | | | |
|--|-------------|-------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F |
| 8-1437621-0 | KE500AB1/8 | Ntl. - Blk. | .500(12.7) | .126(3.20) | .382(9.70) | .460(11.7) | .625(15.9) | .512(13.0) |
| 7-1437621-9 | KE500AB1/4 | Ntl. - Blk. | .500(12.7) | .126(3.20) | .382(9.70) | .460(11.7) | .625(15.9) | .512(13.0) |
| 8-1437621-1 | KE700AB1/4 | Ntl. - Blk. | .740(18.8) | .251(6.38) | .630(16.0) | .708(18.0) | .625(15.9) | .512(13.0) |
| 8-1437621-2 | KE900AB1/4 | Ntl. - Blk. | .93(23.8) | .251(6.38) | .787(20.0) | .900(22.9) | .625(15.9) | .512(13.0) |
| 7-1437621-8 | KE1250AB1/4 | Ntl. - Blk. | 1.25(31.8) | .251(6.38) | 1.06(26.9) | 1.17(29.7) | .625(15.9) | .512(13.0) |

KES SERIES



KES500AB1/4



| Tyco Knurl Grip with Dot Indicator on Skirt | | | | | | | | |
|---|-------------|-------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F |
| 8-1437621-4 | KES500AB1/8 | Ntl. - Blk. | .500(12.7) | .460(11.7) | .382(9.70) | .750(19.1) | .625(15.9) | .512(13.0) |
| 8-1437621-3 | KES500AB1/4 | Ntl. - Blk. | .500(12.7) | .460(11.7) | .382(9.70) | .750(19.1) | .625(15.9) | .512(13.0) |
| 8-1437621-5 | KES700AB1/4 | Ntl. - Blk. | .750(19.1) | .710(18.1) | .630(16.0) | 1.13(28.7) | .625(15.9) | .512(13.0) |
| | KES900AB1/4 | Ntl. - Blk. | .937(23.8) | .897(22.8) | .787(20.0) | 1.44(36.6) | .625(15.9) | .512(13.0) |

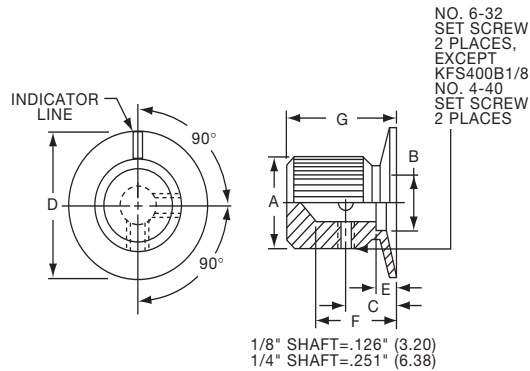
K

K Series

K6

Knobs, Machined Aluminum

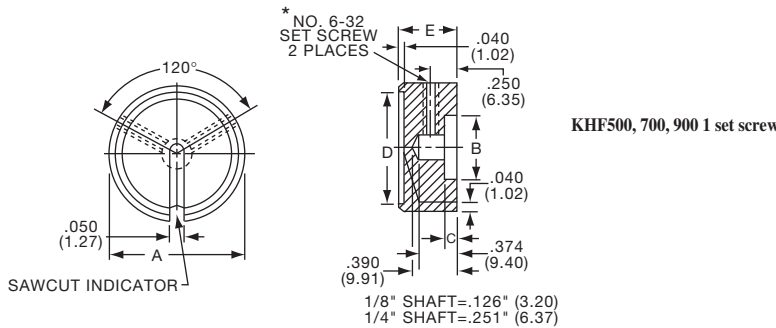
KFS SERIES



KFS400B1/8

| Tyco | | | Straight Knurl with Indicator on Skirt | | | | | | |
|-------------|------------|-------------|--|------------|------------|------------|------------|------------|-------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 8-1437621-6 | KFS400B1/8 | Black Matte | .380(9.65) | .382(9.70) | .256(6.50) | .500(12.7) | .098(2.49) | .469(11.9) | .591(15.0) |
| 8-1437621-8 | KFS500B1/8 | Black Matte | .500(12.7) | .382(9.70) | .252(6.48) | .630(16.0) | .161(4.09) | .469(11.9) | .630(16.0) |
| 8-1437621-7 | KFS500B1/4 | Black Matte | .618(15.7) | .280(7.11) | .382(9.70) | 1.00(25.4) | .161(4.09) | .630(16.0) | 0.811(20.6) |
| 8-1437621-9 | KFS600B1/4 | Black Matte | .618(15.7) | .280(7.11) | .382(9.70) | 1.00(25.4) | .161(4.09) | .630(16.0) | 0.811(20.6) |

KHF SERIES



KHF500A1/4

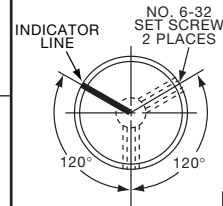


KHF900A1/4

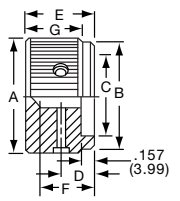
| Tyco | | | Plain Body with Top and Side Sawcut Indicator | | | | |
|--------------|-------------|---------|---|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E |
| 9-1437621-1 | KHF500A1/4 | Natural | .500(12.7) | .374(9.50) | .118(3.00) | .342(8.69) | .563(14.3) |
| 9-1437621-2 | KHF700A1/4 | Natural | .740(18.8) | .590(15.0) | .118(3.00) | .592(15.0) | .563(14.3) |
| 9-1437621-3 | KHF900A1/4 | Natural | .937(23.8) | .708(18.0) | .118(3.00) | .779(19.8) | .563(14.3) |
| *9-1437621-0 | KHF1250A1/4 | Natural | 1.23(31.8) | .984(25.0) | .118(3.00) | 1.08(27.5) | .563(14.3) |

KLN SERIES

| Tyco | | | Straight Knurl with Top and Side Indicator | | | | | | |
|-------------|-------------|---------|--|--------------|-------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 9-1437621-7 | KLN500A1/8 | Natural | .500(12.7) | 0.445(11.3) | .374(9.50) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 9-1437621-6 | KLN500A1/4 | Natural | .500(12.7) | 0.445(11.3) | .374(9.50) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 9-1437621-9 | KLN500B1/8 | Black | .500(12.7) | 0.445(11.3) | .374(9.50) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 9-1437621-8 | KLN500B1/4 | Black | .500(12.7) | 0.445(11.3) | .374(9.50) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 1437622-1 | KLN500S1/4 | Smoke | .500(12.7) | 0.445(11.3) | .374(9.50) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 1437622-2 | KLN700A1/4 | Natural | .740(18.8) | .685(17.4) | .591(15.0) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 1437622-3 | KLN700B1/4 | Black | .740(18.8) | .685(17.4) | .591(15.0) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 1437622-4 | KLN700B1/8 | Black | .740(18.8) | .685(17.4) | .591(15.0) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 1437622-5 | KLN700S1/4 | Smoke | .740(18.8) | .685(17.4) | .591(15.0) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 1437622-6 | KLN900A1/4 | Natural | .937(23.8) | .882(22.4) | 0.709(18.0) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 1437622-7 | KLN900B1/4 | Black | .937(23.8) | .882(22.4) | 0.709(18.0) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 1437622-8 | KLN900S1/4 | Smoke | .937(23.8) | .882(22.4) | 0.709(18.0) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 9-1437621-4 | KLN1250A1/4 | Natural | 1.252(31.80) | 1.195(30.35) | .984(25.0) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |
| 9-1437621-5 | KLN1250B1/4 | Black | 1.252(31.80) | 1.195(30.35) | .984(25.0) | .281(7.14) | .625(15.9) | .512(13.0) | .527(13.4) |



KLN500A1/4



Knobs, Machined Aluminum

KLNS SERIES



KLNS500B1/8



KLNS900B1/4

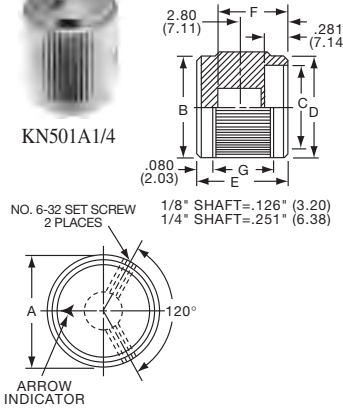


| Tyco Electronics Alcoswitch Color | | | | | | | | | |
|--------------------------------------|-------------|---------|------------|------------|------------|------------|------------|------------|------------|
| | | | A | B | C | D | E | F | G |
| 1-1437622-6 | KLNS500A1/8 | Natural | .500(12.7) | .280(7.11) | .380(9.65) | .750(19.0) | .160(4.07) | .630(16.0) | .510(13.0) |
| 1-1437622-5 | KLNS500A1/4 | Natural | .500(12.7) | .280(7.11) | .380(9.65) | .750(19.0) | .160(4.07) | .630(16.0) | .510(13.0) |
| 1-1437622-8 | KLNS500B1/8 | Black | .500(12.7) | .280(7.11) | .380(9.65) | .750(19.0) | .160(4.07) | .630(16.0) | .510(13.0) |
| 1-1437622-7 | KLNS500B1/4 | Black | .500(12.7) | .280(7.11) | .380(9.65) | .750(19.0) | .160(4.07) | .630(16.0) | .510(13.0) |
| 2-1437622-0 | KLNS700A1/4 | Natural | .750(19.0) | .280(7.11) | .590(14.9) | 1.13(28.7) | .160(4.07) | .630(16.0) | .510(13.0) |
| 2-1437622-1 | KLNS700B1/4 | Black | .750(19.0) | .280(7.11) | .590(14.9) | 1.13(28.7) | .160(4.07) | .630(16.0) | .510(13.0) |
| 2-1437622-2 | KLNS900A1/4 | Natural | .940(23.9) | .280(7.11) | .710(18.0) | 1.40(35.5) | .160(4.07) | .630(16.0) | .510(13.0) |
| 2-1437622-3 | KLNS900B1/4 | Black | .940(23.9) | .280(7.11) | .710(18.0) | 1.40(35.5) | .160(4.07) | .630(16.0) | .510(13.0) |

KN SERIES



KN501A1/4



| Tyco Electronics Alcoswitch Color | | | | | | | | | | |
|--------------------------------------|------------|-------------|-----------------|------------|------------|------------|------------|------------|-------------|--|
| | | | A | B | C | D | E | F | G | |
| 5-1437622-1 | KN501A1/8 | Natural | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.3) | .625(15.9) | .512(13.0) | .456(11.58) | |
| 5-1437622-0 | KN501A1/4 | Natural | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.3) | .625(15.9) | .512(13.0) | .456(11.58) | |
| 5-1437622-3 | KN501B1/8 | Black | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.3) | .625(15.9) | .512(13.0) | .456(11.58) | |
| 5-1437622-2 | KN501B1/4 | Black | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.3) | .625(15.9) | .512(13.0) | .456(11.58) | |
| 6-1437622-2 | KN701A1/4 | Natural | .750(19.1) | .695(17.7) | .590(15.0) | .695(17.7) | .625(15.9) | .512(13.0) | .456(11.58) | |
| 6-1437622-3 | KN701B1/4 | Black | .750(19.1) | .695(17.7) | .590(15.0) | .695(17.7) | .625(15.9) | .512(13.0) | .456(11.58) | |
| Two Toned | | | Body-Top | | | | | | | |
| 5-1437622-5 | KN501BA1/8 | Blk. - Ntl. | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.3) | .625(15.9) | .512(13.0) | .456(11.58) | |
| 5-1437622-4 | KN501BA1/4 | Blk. - Ntl. | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.3) | .625(15.9) | .512(13.0) | .456(11.58) | |
| 6-1437622-5 | KN701BA1/8 | Blk. - Ntl. | .750(19.1) | .695(17.7) | .590(15.0) | .695(17.7) | .625(15.9) | .512(13.0) | .456(11.58) | |
| 6-1437622-4 | KN701BA1/4 | Blk. - Ntl. | .750(19.1) | .695(17.7) | .590(15.0) | .695(17.7) | .625(15.9) | .512(13.0) | .456(11.58) | |

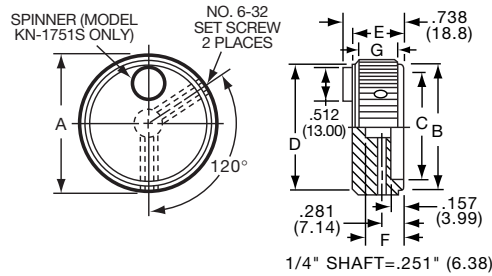
KN SERIES



KN1751AS1/4



KN1751B1/4



| Tyco Electronics Alcoswitch Color | | | | | | | | | | |
|--------------------------------------|-------------|----------------|-------------------|------------|------------|------------|------------|------------|------------|--|
| | | | A | B | C | D | E | F | G | |
| Less Indicator | | | | | | | | | | |
| 3-1437622-2 | KN1751A1/4 | Natural | 1.75(44.5) | 1.55(39.4) | 1.38(35.1) | 1.65(41.9) | .620(15.0) | .508(12.9) | .480(12.2) | |
| 3-1437622-6 | KN1751B1/4 | Black | 1.75(44.5) | 1.55(39.4) | 1.38(35.1) | 1.65(41.9) | .620(15.8) | .508(12.9) | .480(12.2) | |
| Two Toned | | | Body - Top | | | | | | | |
| 3-1437622-3 | KN1751AB1/4 | Ntl. - Blk. | 1.75(44.5) | 1.55(39.4) | 1.38(35.1) | 1.65(41.9) | .620(15.8) | .508(12.9) | .480(12.2) | |
| 3-1437622-7 | KN1751BA1/4 | Blk. - Natural | 1.75(44.5) | 1.55(39.4) | 1.38(35.1) | 1.65(41.9) | .620(15.8) | .508(12.9) | .480(12.2) | |
| With Indicator | | | | | | | | | | |
| 3-1437622-5 | KN1750A1/4 | Natural | 1.75(44.5) | 1.55(39.4) | 1.38(35.1) | 1.65(41.9) | .620(15.8) | .508(12.9) | .480(12.2) | |
| 3-1437622-1 | KN1750B1/4 | Black | 1.75(44.5) | 1.55(39.4) | 1.38(35.1) | 1.65(41.9) | .620(15.8) | .508(12.9) | .480(12.2) | |
| With Spinner/Less Indicator | | | | | | | | | | |
| 3-1437622-5 | KN1751AS1/4 | Natural | 1.75(44.5) | 1.55(39.4) | 1.38(35.1) | 1.65(41.9) | .620(15.8) | .508(12.9) | .480(12.2) | |
| 3-1437622-8 | KN1751BS1/4 | Black | 1.75(44.5) | 1.55(39.4) | 1.38(35.1) | 1.65(41.9) | .620(15.8) | .508(12.9) | .480(12.2) | |

K

K Series

K8

Knobs, Machined Aluminum



KN SERIES



KN5700B1/4

| Concentric Set with Straight Knurl with Indicator Lines | | | | | | | | | |
|---|------------|---------|------------|------------|------------|------------|------------|------------|------------|
| Tyco Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 5-1437622-6 | KN5700A1/4 | Natural | .750(19.1) | .500(12.7) | .590(15.0) | .700(17.8) | .625(15.9) | 1.16(29.5) | .281(7.14) |
| 5-1437622-7 | KN5700B1/4 | Black | .750(19.1) | .500(12.7) | .590(15.0) | .700(17.8) | .625(15.9) | 1.16(29.5) | .281(7.14) |

| Straight Knurl with & without Indicator Line Diameter Dimensions | | | | | | | | | |
|--|-------------|----------------|------------|------------|------------|------------|------------|------------|------------|
| Tyco Electronics | Alcoswitch | Color Body-Top | A | B | C | D | E | F | G |
| 4-1437622-3 | KN500A1/8 | Natural | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.5) | .625(15.9) | .512(13.0) | .456(11.6) |
| 4-1437622-2 | KN500A1/4 | Natural | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.5) | .625(15.9) | .512(13.0) | .456(11.6) |
| 4-1437622-7 | KN500B1/8 | Black | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.5) | .625(15.9) | .512(13.0) | .456(11.6) |
| 4-1437622-6 | KN500B1/4 | Black | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.5) | .625(15.9) | .512(13.0) | .456(11.6) |
| 5-1437622-8 | KN700A1/4 | Natural | .750(19.1) | .695(17.7) | .590(15.0) | .695(17.7) | .625(15.9) | .512(13.0) | .456(11.6) |
| 6-1437622-0 | KN700B1/4 | Black | .750(19.1) | .695(17.7) | .590(15.0) | .695(17.7) | .625(15.9) | .512(13.0) | .456(11.6) |
| 6-1437622-6 | KN900A1/4 | Natural | .949(24.1) | .894(22.7) | .696(17.7) | .894(22.7) | .625(15.9) | .512(13.0) | .456(11.6) |
| 6-1437622-8 | KN900B1/4 | Black | .949(24.1) | .894(22.7) | .696(17.7) | .894(22.7) | .625(15.9) | .512(13.0) | .456(11.7) |
| 2-1437622-5 | KN1250A1/4 | Natural | 1.25(31.8) | 1.20(30.5) | .984(25.0) | 1.20(30.5) | .625(15.9) | .512(13.0) | .456(11.6) |
| 2-1437622-7 | KN1250B1/4 | Black | 1.25(31.8) | 1.20(30.5) | .984(25.0) | 1.20(30.5) | .625(15.9) | .512(13.0) | .456(11.6) |
| Two-Toned | | | | | | | | | |
| 4-1437622-5 | KN500AB1/8 | Ntl - Blk. | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.5) | .625(15.9) | .512(13.0) | .456(11.6) |
| 4-1437622-4 | KN500AB1/4 | Ntl - Blk. | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.5) | .625(15.9) | .512(13.0) | .456(11.6) |
| 4-1437622-9 | KN500BA1/8 | Blk - Ntl. | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.5) | .625(15.9) | .512(13.0) | .456(11.6) |
| 4-1437622-8 | KN500BA1/4 | Blk - Ntl. | .500(12.7) | .445(11.3) | .374(9.50) | .445(11.5) | .625(15.9) | .512(13.0) | .456(11.6) |
| 5-1437622-9 | KN700AB1/4 | Ntl - Blk. | .750(19.1) | .695(17.7) | .445(11.5) | .695(17.7) | .625(15.9) | .512(13.0) | .456(11.6) |
| 6-1437622-1 | KN700BA1/4 | Blk - Ntl. | .750(19.1) | .695(17.7) | .445(11.5) | .695(17.7) | .625(15.9) | .512(13.0) | .456(11.6) |
| 6-1437622-7 | KN900AB1/4 | Ntl - Blk. | .949(24.1) | .894(22.7) | .695(17.7) | .894(22.7) | .625(15.9) | .512(13.0) | .456(11.6) |
| 6-1437622-9 | KN900BA1/4 | Blk - Ntl. | .949(24.1) | .894(22.7) | .695(17.7) | .894(22.7) | .625(15.9) | .512(13.0) | .456(11.7) |
| 2-1437622-6 | KN1250AB1/4 | Ntl - Blk. | 1.25(31.8) | 1.20(30.5) | .984(25.0) | 1.20(30.5) | .625(15.9) | .512(13.0) | .456(11.6) |
| 2-1437622-8 | KN1250BA1/4 | Blk - Ntl. | 1.25(31.8) | 1.20(30.5) | .984(25.0) | 1.20(30.5) | .625(15.9) | .512(13.0) | .456(11.6) |
| Less Indicator | | | | | | | | | |
| 2-1437622-9 | KN1251A1/4 | Natural | 1.25(31.8) | 1.20(30.5) | .984(25.0) | 1.25(31.7) | .625(15.9) | .512(13.0) | .456(11.7) |
| 3-1437622-0 | KN1251B1/4 | Black | 1.25(31.8) | 1.20(30.5) | .984(25.0) | 1.25(31.7) | .625(15.9) | .512(13.0) | .456(11.7) |

KN SERIES



KN500A1/4



KN900BA1/4



KN SERIES



KN1755BS1/4



| Straight Knurl with "Crank" Spinner | | | | | | | | | |
|-------------------------------------|--------------|---------------------|------------|------------|------------|------------|------------|------------|------------|
| Tyco Electronics | Alcoswitch | Color Body-Top/Spin | A | B | C | D | E | F | G |
| 4-1437622-1 | KN1755AS1/4 | Natural | 1.76(44.7) | 1.56(39.5) | .138(35.0) | 1.65(41.8) | .630(16.0) | .512(13.0) | .492(12.5) |
| | KN1755BS1/4 | Black | 1.76(44.7) | 1.56(39.5) | .138(35.0) | 1.65(41.8) | .630(16.0) | .512(13.0) | .492(12.5) |
| 3-1437622-9 | KN1755ABS1/4 | Ntl.-Blk./Blk. | 1.76(44.7) | 1.56(39.5) | 1.38(35.0) | 1.65(41.8) | .630(16.0) | .512(13.0) | .492(12.5) |
| 4-1437622-0 | KN1755BAS1/4 | Blk.-Ntl. Blk. | 1.76(44.7) | 1.56(39.5) | 1.38(35.0) | 1.65(41.8) | .630(16.0) | .512(13.0) | .492(12.5) |

Knobs, Machined Aluminum

KNS SERIES



KNS501A1/4



KNS701B1/4

KNS701BA1/4



| Tyco | | Straight Knurl with Arrowhead Indicator on Skirt | | | | | | | | |
|-------------|-------------|--|------------|------------|------------|------------|------------|------------|------------|---|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G | |
| 7-1437622-3 | KNS501A1/8 | Natural | .500(12.7) | .445(11.3) | .370(9.40) | .750(19.1) | .625(15.9) | .512(13.0) | .428(10.9) | |
| 7-1437622-2 | KNS501A1/4 | Natural | .500(12.7) | .445(11.3) | .370(9.40) | .750(19.1) | .625(15.9) | .512(13.0) | .428(10.9) | |
| 7-1437622-5 | KNS501B1/8 | Black | .500(12.7) | .445(11.3) | .370(9.40) | .750(19.1) | .625(15.9) | .512(13.0) | .428(10.9) | |
| 7-1437622-4 | KNS501B1/4 | Black | .500(12.7) | .445(11.3) | .370(9.40) | .750(19.1) | .625(15.9) | .512(13.0) | .428(10.9) | |
| 7-1437622-8 | KNS701A1/4 | Natural | .750(19.1) | .695(17.7) | .590(15.0) | 1.12(28.5) | .625(15.9) | .512(13.0) | .428(10.9) | |
| 7-1437622-9 | KNS701B1/4 | Black | .750(19.1) | .695(17.7) | .590(15.0) | 1.12(28.5) | .625(15.9) | .512(13.0) | .428(10.9) | |
| Two-Toned | | Body-Top/Skirt | | A | B | C | D | E | F | G |
| 7-1437622-7 | KNS501BA1/8 | Blk.- Ntl. | .500(12.7) | .695(17.7) | .370(9.40) | .750(19.1) | .625(15.9) | .512(13.0) | .428(10.9) | |
| 7-1437622-6 | KNS501BA1/4 | Blk.- Ntl. | .500(12.7) | .695(17.7) | .370(9.40) | .750(19.1) | .625(15.9) | .512(13.0) | .428(10.9) | |
| 8-1437622-1 | KNS701BA1/8 | Blk.- Ntl. | .750(19.1) | .695(17.7) | .590(15.0) | 1.12(28.5) | .625(15.9) | .512(13.0) | .428(10.9) | |
| 8-1437622-0 | KNS701BA1/4 | Blk.- Ntl. | .750(19.1) | .695(17.7) | .590(15.0) | 1.12(28.5) | .625(15.9) | .512(13.0) | .428(10.9) | |

KPN SERIES



KPN500B1/8

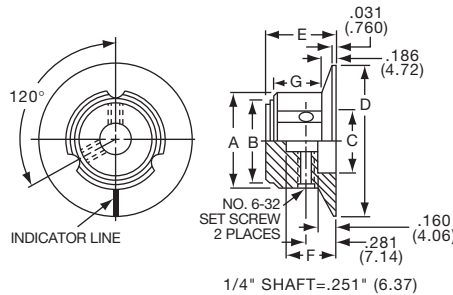


| Tyco | | Straight Knurl with Pointer and Indicator Line | | | | | | | | |
|-------------|------------|--|------------|-------------|------------|------------|------------|------------|------------|---|
| Electronics | Alcoswitch | Color | Body-Top | A | B | C | D | E | F | G |
| 9-1437622-1 | KPN500A1/8 | Natural | .500(12.7) | .445(11.3) | .372(9.45) | .445(11.3) | .368(9.35) | .195(4.95) | .354(8.99) | |
| 9-1437622-0 | KPN500A1/4 | Natural | .500(12.7) | .445(11.3) | .372(9.45) | .445(11.3) | .368(9.35) | .195(4.95) | .354(8.99) | |
| 9-1437622-3 | KPN500B1/8 | Black | .500(12.7) | .445(11.3) | .372(9.45) | .445(11.3) | .368(9.35) | .195(4.95) | .354(8.99) | |
| 9-1437622-2 | KPN500B1/4 | Black | .500(12.7) | .445(11.3) | .372(9.45) | .445(11.3) | .368(9.35) | .195(4.95) | .354(8.99) | |
| 9-1437622-5 | KPN700A1/4 | Natural | .750(19.1) | .695(17.65) | .590(15.0) | .695(17.7) | .515(13.1) | .234(5.94) | .394(10.0) | |
| 9-1437622-6 | KPN700B1/4 | Black | .750(19.1) | .695(17.65) | .590(15.0) | .695(17.7) | .515(13.1) | .234(5.94) | .394(10.0) | |
| 9-1437622-7 | KPN900A1/4 | Natural | .937(23.8) | .882(22.40) | .692(17.6) | .882(22.4) | .630(16.0) | .276(7.01) | .350(8.90) | |
| 9-1437622-9 | KPN900B1/4 | Black | .937(23.8) | .882(22.40) | .692(17.6) | .882(22.4) | .630(16.0) | .276(7.01) | .350(8.90) | |

KS SERIES



KS500A1/4



| Tyco | | 3 Flute Design with Aluminum Skirt and Indicator Line | | | | | | | |
|-------------|------------|---|------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 1437623-3 | KS500A1/8 | Natural | .500(12.7) | .430(10.9) | .360(9.14) | .750(19.1) | .620(15.8) | .510(13.0) | .430(10.9) |
| 1437623-2 | KS500A1/4 | Natural | .500(12.7) | .430(10.9) | .360(9.14) | .750(19.1) | .620(15.8) | .510(13.0) | .430(10.9) |
| 1437623-5 | KS500B1/8 | Black | .500(12.7) | .430(10.9) | .360(9.14) | .750(19.1) | .620(15.8) | .510(13.0) | .430(10.9) |
| 1437623-4 | KS500B1/4 | Black | .500(12.7) | .430(10.9) | .360(9.14) | .750(19.1) | .620(15.8) | .510(13.0) | .430(10.9) |
| 1437623-6 | KS700A1/4 | Natural | .750(19.0) | .650(16.5) | .590(14.9) | 1.12(28.4) | .620(15.8) | .510(13.0) | .430(10.9) |
| 1437623-7 | KS700B1/4 | Black | .750(19.0) | .650(16.5) | .590(14.9) | 1.12(28.4) | .620(15.8) | .510(13.0) | .430(10.9) |
| 1437623-8 | KS900A1/4 | Natural | .940(23.9) | .820(20.8) | .710(18.0) | 1.40(35.6) | .620(15.8) | .510(13.0) | .430(10.9) |
| 1437623-9 | KS900B1/4 | Black | .940(23.9) | .820(20.8) | .710(18.0) | 1.40(35.6) | .620(15.8) | .510(13.0) | .430(10.9) |



KS900B1/4

K

K Series

K10

Knobs, Machined Aluminum



KT SERIES



KT500A1/4



KT700A1/4

| Tyco | | Square Serration with Indicator Line | | | | | | | |
|-------------|------------|--------------------------------------|------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 1-1437623-2 | KT500A1/4 | Natural | .500(12.7) | .430(10.9) | .375(9.53) | .430(10.9) | .280(7.11) | .510(13.0) | .630(16.0) |
| 1-1437623-4 | KT500B1/8 | Black | .500(12.7) | .430(10.9) | .375(9.53) | .430(10.9) | .280(7.11) | .510(13.0) | .630(16.0) |
| 1-1437623-3 | KT500B1/4 | Black | .500(12.7) | .430(10.9) | .375(9.53) | .430(10.9) | .280(7.11) | .510(13.0) | .630(16.0) |
| 1-1437623-6 | KT700A1/4 | Natural | .740(18.8) | .650(16.5) | .590(15.0) | .650(16.5) | .280(7.11) | .510(13.0) | .630(16.0) |
| 1-1437623-7 | KT700B1/4 | Black | .740(18.8) | .650(16.5) | .590(15.0) | .650(16.5) | .280(7.11) | .510(13.0) | .630(16.0) |
| 1-1437623-8 | KT900A1/4 | Natural | .940(23.9) | .816(20.7) | .710(18.0) | .816(20.7) | .280(7.11) | .510(13.0) | .630(16.0) |
| 1-1437623-9 | KT900B1/4 | Black | .940(23.9) | .816(20.7) | .710(18.0) | .816(20.7) | .280(7.11) | .510(13.0) | .630(16.0) |



KU SERIES



KU402B1/8

| Tyco | | Serrated Diamond Trim Cut with Dot Indicator | | | | | | | |
|-------------|------------|--|------------|------------|------------|------------|------------|------------|-------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 2-1437623-1 | KU401B1/8 | Black | .374(9.50) | .283(7.19) | .276(7.01) | .098(2.49) | .177(4.50) | .236(5.99) | .299(7.60) |
| 2-1437623-2 | KU402B1/8 | Black | .374(9.50) | .283(7.19) | .276(7.01) | .098(2.49) | .197(5.00) | .354(8.99) | .449(11.40) |
| 2-1437623-3 | KU500B1/8 | Black | .500(12.7) | .409(10.4) | .374(9.50) | .118(3.00) | .276(7.01) | .512(13.0) | .598(15.2) |
| | KU500B1/4 | Black | .500(12.7) | .409(10.4) | .374(9.50) | .118(3.00) | .276(7.01) | .512(13.0) | .598(15.2) |
| 2-1437623-4 | KU700B1/4 | Black | .740(18.8) | .650(16.5) | .591(15.0) | .118(3.00) | .276(7.01) | .512(13.0) | .598(15.2) |



KUS SERIES



KUS402B1/8

| Tyco | | Serrated Diamond Trim Cut with Dot Indicator | | | | | | | |
|-------------|------------|--|------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | Color | A | B | C | D | E | F | G |
| 2-1437623-9 | KUS402B1/8 | Black | .374(9.50) | .197(5.00) | .276(7.01) | .520(13.2) | .098(2.49) | .450(11.4) | .354(8.99) |
| 3-1437623-0 | KUS500B1/8 | Black | .500(12.7) | .276(7.01) | .374(9.50) | .700(17.8) | .118(3.00) | .600(15.2) | .512(13.0) |
| | KUS500B1/4 | Black | .500(12.7) | .276(7.01) | .374(9.50) | .700(17.8) | .118(3.00) | .600(15.2) | .512(13.0) |
| 3-1437623-1 | KUS700B1/4 | Black | .740(18.8) | .276(7.01) | .591(15.0) | 1.03(26.2) | .118(3.00) | .600(15.2) | .512(13.0) |



KUS700B1/4

Note: KUS402B1/8 has #4.40 setscrew

Knobs, Molded Phenolic

PH SERIES



PH15181/4



| Tyco | | Straight Knurl Less Indicator Line | | | | | |
|-------------|------------|------------------------------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 1437624-2 | PH15181/4 | .996(25.3) | .972(24.7) | .799(20.3) | .472(12.0) | .669(17.0) | .157(3.99) |

PK SERIES



PK50B1/8



PK701/4



| Tyco | | Straight Knurl with Dot Indicator on Skirt | | | | | |
|-------------|------------|--|------------|-------------|------------|------------|-------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 1437624-7 | PK50B1/8 | .748(19.0) | .570(14.5) | .500(12.70) | .055(1.40) | .460(11.7) | .550(13.97) |
| 1437624-6 | PK50B1/4 | .748(19.0) | .570(14.5) | .500(12.70) | .055(1.40) | .460(11.7) | .550(13.97) |
| 1437624-8 | PK70B1/4 | .984(25.0) | .728(18.5) | .710(18.03) | .079(2.01) | .500(12.7) | .590(14.99) |
| 1437624-9 | PK90B1/4 | 1.25(31.8) | .985(25.0) | .870(22.01) | .098(2.49) | .470(11.9) | .595(15.10) |

PK SERIES



PK1100B1/4



| Tyco | | Serrated with Dot Indicator on Top | | | | | |
|-------------|------------|------------------------------------|------------|-------------|------------|-------------|------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 1437624-4 | PK1100B1/8 | .700(17.8) | .643(16.3) | .565(14.35) | .125(3.18) | .453(11.51) | .530(13.5) |

K

P Series

Knobs, Molded Phenolic



PKA SERIES



PKA50B1/4



PKA90B1/4

| Tyco | | Ribbed with Line Indicator on Skirt | | | | | |
|-------------|------------|-------------------------------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 1-1437624-1 | PKA50B1/8 | .795(20.2) | .580(14.7) | .540(13.7) | .080(2.03) | .450(11.4) | .590(15.0) |
| 1-1437624-0 | PKA50B1/4 | .795(20.2) | .580(14.7) | .540(13.7) | .080(2.03) | .450(11.4) | .590(15.0) |
| 1-1437624-4 | PKA55B1/8 | .780(19.8) | .580(14.7) | .475(12.1) | .135(3.43) | .585(14.9) | .675(17.2) |
| 1-1437624-3 | PKA55B1/4 | .780(19.8) | .580(14.7) | .475(12.1) | .135(3.43) | .585(14.9) | .675(17.2) |
| 1-1437624-5 | PKA70B1/4 | .980(24.9) | .740(18.8) | .680(17.3) | .118(3.00) | .650(16.5) | .750(19.1) |
| 1-1437624-7 | PKA90B1/4 | 1.375(34.9) | .970(24.6) | .670(17.0) | .195(4.95) | .750(19.1) | .840(21.3) |



PKAP SERIES



PKAP50B1/8



PKAP90B1/4

| Tyco | | Ribbed with Skirt and Pointer with Indicator Line | | | | | |
|-------------|------------|---|------------|------------|------------|------------|-------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 1-1437624-8 | PKAP50B1/4 | .787(20.0) | .693(17.6) | .508(12.9) | .082(2.08) | .579(14.7) | .689(17.5) |
| 1-1437624-9 | PKAP50B1/8 | .787(20.0) | .693(17.6) | .508(12.9) | .082(2.08) | .579(14.7) | .689(17.5) |
| 2-1437624-0 | PKAP70B1/4 | .976(24.8) | .874(22.1) | .668(17.0) | .158(4.01) | .634(16.1) | .737(18.72) |

Knobs, Molded Phenolic

PKB SERIES



PKB90B1/4



| | | Fluted with Indicator Line On Skirt | | | | | |
|------------------|------------|-------------------------------------|------------|------------|-----------|------------|------------|
| Tyco Electronics | Alcoswitch | A | B | C | D | E | F |
| 2-1437624-3 | PKB70B1/4 | 1.12(28.3) | .750(19.1) | .670(17.0) | .118(3.0) | .490(12.5) | .600(15.2) |
| 2-1437624-4 | PKB90B1/4 | 1.50(38.1) | 1.02(25.8) | .800(20.3) | .118(3.0) | .705(17.9) | .820(20.8) |

PKD SERIES



PKD60B1/4



PKD100B1/4



| | | Straight Knurl Aluminum Skirt w/Arrow Indicator | | | | | |
|------------------|------------|---|------------|------------|-----------|------------|------------|
| Tyco Electronics | Alcoswitch | A | B | C | D | E | F |
| 2-1437624-8 | PKD60B1/8 | .780(19.8) | .566(14.4) | .487(12.4) | .059(1.5) | .492(12.5) | .563(14.3) |
| 2-1437624-7 | PKD60B1/4 | .780(19.8) | .566(14.4) | .487(12.4) | .059(1.5) | .492(12.5) | .563(14.3) |
| 3-1437624-1 | PKD70B1/4 | 1.02(25.9) | .750(19.1) | .700(17.8) | .080(2.0) | .490(12.5) | .610(15.5) |
| 2-1437624-5 | PKD100B1/4 | 1.29(32.8) | 1.00(25.4) | .865(22.0) | .050(1.3) | .500(12.7) | .590(15.0) |

PKD SERIES



PKD60B101/8



PKD100B101/4



| | | Straight Knurl Skirt w/0-10 Numerals | | | | | |
|------------------|--------------|--------------------------------------|------------|------------|-----------|------------|------------|
| Tyco Electronics | Alcoswitch | A | B | C | D | E | F |
| 3-1437624-0 | PKD60B101/8 | .780(19.8) | .566(14.4) | .487(12.4) | .059(1.5) | .492(12.5) | .563(14.3) |
| 2-1437624-9 | PKD60B101/4 | .780(19.8) | .566(14.4) | .487(12.4) | .059(1.5) | .492(12.5) | .563(14.3) |
| 3-1437624-2 | PKD70B101/4 | 1.02(25.9) | .750(19.1) | .700(17.8) | .080(2.0) | .490(12.5) | .610(15.5) |
| 2-1437624-6 | PKD100B101/4 | 1.29(32.8) | 1.00(25.4) | .865(22.0) | .050(1.3) | .500(12.7) | .590(15.0) |

K

P Series

K14

Knobs, Molded Phenolic



PKDT SERIES



PKDT100B1/4

| Tyco Black Spin Cap with "Diamond Cut" and Arrow Indicator | | | | | | | |
|--|-------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 3-1437624-9 | PKDT70B1/4 | 1.03(26.0) | .738(18.8) | .720(18.3) | .098(2.49) | .500(12.7) | .635(16.1) |
| 3-1437624-3 | PKDT100B1/4 | 1.29(32.8) | 1.02(25.9) | .860(21.8) | .042(1.07) | .500(12.7) | .638(16.2) |



PKDT SERIES



PKDT100B101/4

| Tyco Black Spin Cap with "Diamond Cut" & 0-10 Numerals | | | | | | | |
|--|---------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 3-1437624-8 | PKDT60B101/8 | .778(19.8) | .605(15.4) | .560(12.5) | .060(1.53) | .392(9.96) | .562(14.3) |
| 4-1437624-0 | PKDT70B101/4 | 1.03(26.0) | .738(18.8) | .720(18.3) | .098(2.49) | .500(12.7) | .635(16.1) |
| 3-1437624-4 | PKDT100B101/4 | 1.29(32.8) | 1.02(25.9) | .860(21.8) | .042(1.07) | .500(12.7) | .638(16.2) |



PKE SERIES



PKE90B1/4

| Tyco Fluted with Indicator Line | | | | | |
|---------------------------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | A | B | C | E |
| 4-1437624-4 | PKE60B1/8 | .626(15.9) | .472(12.0) | .091(2.31) | .394(10.0) |
| 4-1437624-3 | PKE60B1/4 | .626(15.9) | .472(12.0) | .091(2.31) | .394(10.0) |
| 4-1437624-5 | PKE90B1/4 | .890(22.6) | .724(18.4) | .098(2.49) | .480(12.2) |



PKES SERIES



PKES60B1/4

PKES70B1/4

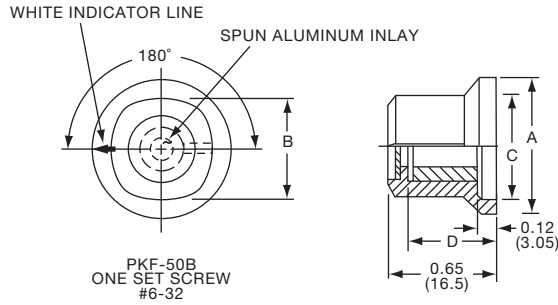
| Tyco Fluted with Skirt and Indicator Line | | | | | | | |
|---|-------------|------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 5-1437624-1 | PKES60B1/8 | .748(19.0) | .618(15.7) | .460(11.7) | .090(2.29) | .370(9.40) | .470(11.9) |
| 5-1437624-0 | PKES60B1/4 | .748(19.0) | .618(15.7) | .460(11.7) | .090(2.29) | .370(9.40) | .470(11.9) |
| 5-1437624-2 | PKES70B1/4 | .855(21.7) | .744(18.9) | .705(17.9) | .080(2.03) | .421(10.7) | .526(13.4) |
| 5-1437624-3 | PKES90B1/4 | 1.01(25.7) | .889(22.6) | .846(21.5) | .079(2.01) | .421(10.7) | .570(14.5) |
| 4-1437624-6 | PKES120B1/4 | 1.30(32.9) | 1.16(29.5) | 1.02(25.9) | .118(3.00) | .500(12.7) | .628(16.0) |
| 4-1437624-7 | PKES140B1/4 | 1.50(38.1) | 1.37(34.9) | 1.22(30.9) | .118(3.00) | .540(13.7) | .693(17.6) |
| 4-1437624-8 | PKES150B1/4 | 1.77(44.9) | 1.55(39.4) | 1.41(35.9) | .118(3.00) | .733(18.6) | .831(21.1) |

Knobs, Molded Phenolic

PKF SERIES



PKF50B1/8



| Tyco | | Plain Quadrate with Indicator Line & Arrow | | | |
|-------------|------------|--|-------------|-------------|------------|
| Electronics | Alcoswitch | A | B | C | D |
| 5-1437624-5 | PKF50B1/8 | .670(17.0) | .454(11.53) | .570(14.48) | .520(13.2) |

PKG SERIES



PKG40B1/8



| Tyco | | Ribbed with Indicator Line | | | | | |
|-------------|------------|----------------------------|------------|------------|------------|-------------|------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 5-1437624-9 | *PKG40B1/8 | .437(11.1) | .410(10.4) | .304(7.72) | .079(2.00) | .385(9.78) | .472(12.0) |
| 6-1437624-1 | PKG50B1/8 | .551(14.0) | .500(12.7) | .442(10.7) | .056(1.42) | .395(10.03) | .512(13.0) |
| 6-1437624-0 | PKG50B1/4 | .551(14.0) | .500(12.7) | .442(10.7) | .056(1.42) | .395(10.03) | .512(13.0) |

*Note: Knob uses #4-40 set screw

Knobs, Molded Phenolic

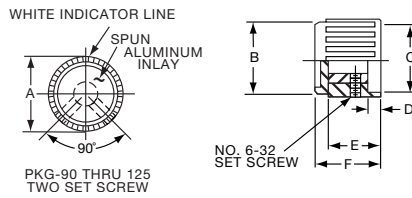
PKG SERIES



PKG70B1/8

| Tyco | | Ribbed with Indicator Line | | | | | |
|-------------|------------|----------------------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 6-1437624-6 | PKG60B1/8 | .660(16.8) | .615(15.6) | .551(14.0) | .080(2.03) | .430(10.9) | .551(14.0) |
| 6-1437624-5 | PKG60B1/4 | .660(16.8) | .615(15.6) | .551(14.0) | .080(2.03) | .430(10.9) | .551(14.0) |
| 6-1437624-8 | PKG70B1/8 | .740(18.8) | .698(17.7) | .591(15.0) | .080(2.03) | .453(11.5) | .559(14.2) |
| 6-1437624-7 | PKG70B1/4 | .740(18.8) | .698(17.7) | .591(15.0) | .080(2.03) | .453(11.5) | .559(14.2) |

PKG SERIES



PKG90B1/4

| Tyco | | Ribbed with Indicator Line | | | | | |
|-------------|------------|----------------------------|------------|------------|------------|------------|-------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 7-1437624-0 | PKG90B1/8 | .862(21.9) | .811(20.6) | .710(18.0) | .080(2.03) | .450(11.4) | .550(13.97) |
| 6-1437624-9 | PKG90B1/4 | .862(21.9) | .811(20.6) | .710(18.0) | .080(2.03) | .450(11.4) | .550(13.97) |
| 5-1437624-7 | PKG100B1/4 | 1.055(26.80) | 1.01(25.5) | .920(23.4) | .080(2.03) | .430(10.9) | .555(14.1) |
| 5-1437624-8 | PKG125B1/4 | 1.248(31.70) | 1.20(30.4) | .690(17.5) | .080(2.03) | .430(10.9) | .565(14.4) |

PKGP SERIES



PKGP70B1/4

| Tyco | | Ribbed with Bar Pointers and Indicator Line | | | | | |
|-------------|-------------|---|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 7-1437624-2 | PKGP70B1/4 | .740(18.8) | .700(17.8) | .590(15.0) | .990(25.2) | .080(2.03) | .460(11.7) |
| 7-1437624-3 | PKGP90B1/4 | .860(21.8) | .810(20.6) | .700(17.8) | 1.28(32.5) | .080(2.03) | .460(11.7) |
| 7-1437624-1 | PKGP100B1/4 | 1.05(26.2) | 1.00(25.4) | .900(22.9) | 1.62(41.2) | .080(2.03) | .480(12.2) |

PKJ SERIES



PKJ50B1/8

| Tyco | | Straight Knurl with Bar Pointers and Indicator Line | | | | | |
|-------------|------------|---|------------|------------|------------|------------|-----------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 7-1437624-5 | PKJ50B1/8 | .500(12.7) | .512(13.0) | .420(10.7) | .577(14.7) | .429(10.9) | .113(2.9) |
| 7-1437624-4 | *PKJ50B1/4 | .500(12.7) | .512(13.0) | .420(10.7) | .577(14.7) | .429(10.9) | .113(2.9) |
| 7-1437624-6 | PKJ60B1/4 | .630(16.0) | .530(13.5) | .468(11.9) | .758(19.3) | .440(11.2) | .110(2.8) |
| 7-1437624-7 | PKJ70B1/4 | .760(19.3) | .555(14.1) | .545(13.8) | .915(23.2) | .450(11.4) | .118(3.0) |

*Note: Knob uses #4-40 set screw



PKJ70B1/4

Knobs, Molded Phenolic

PKJT SERIES



PKJT50B1/4



PKJT70B1/4



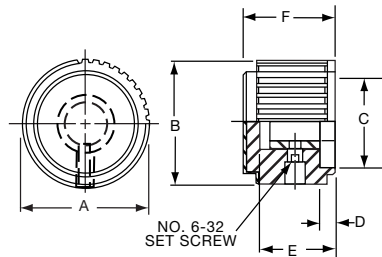
| Straight Knurl with Bar Pointer & Indicator Line and Aluminum Spin Cap | | | | | | | |
|--|-------------|------------|------------|------------|------------|------------|------------|
| Tyco | | | | | | | |
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 7-1437624-9 | PKJT50B1/8 | .515(13.1) | .585(14.9) | .350(8.89) | .595(15.1) | .414(10.5) | .130(3.30) |
| 7-1437624-8 | *PKJT50B1/4 | .515(13.1) | .585(14.9) | .350(8.89) | .595(15.1) | .414(10.5) | .130(3.30) |
| 8-1437624-0 | PKJT60B1/4 | .640(16.3) | .605(15.4) | .470(11.9) | .760(19.3) | .445(11.3) | .118(3.00) |
| 8-1437624-1 | PKJT70B1/4 | .760(19.3) | .625(15.9) | .550(14.0) | .915(23.2) | .445(11.3) | .118(3.00) |

*Knob uses #4-40 set screw.

PKNT SERIES



PKNT60B1/4



| Black Spin Cap with "Diamond Cut" Less Indicator | | | | | | | |
|--|------------|------------|------------|------------|------------|------------|------------|
| Tyco | | | | | | | |
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 8-1437624-6 | PKNT60B1/8 | .591(15.0) | .579(14.7) | .394(10.0) | .079(2.01) | .394(10.0) | .472(11.9) |
| 8-1437624-5 | PKNT60B1/4 | .591(15.0) | .579(14.7) | .394(10.0) | .079(2.01) | .394(10.0) | .472(11.9) |
| 8-1437624-7 | PKNT70B1/4 | .787(19.9) | .764(19.4) | .571(14.5) | .098(2.49) | .492(12.5) | .591(14.7) |
| 8-1437624-8 | PKNT90B1/4 | .984(25.0) | .957(24.3) | .748(19.0) | .098(2.49) | .591(15.0) | .689(17.5) |

PKN SERIES



PKN60B1/8



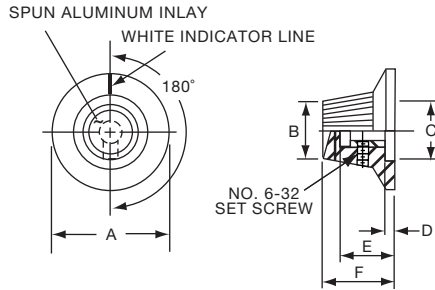
| Line Indicator on Natural Aluminum Spin Cap | | | | | | | |
|---|------------|------------|------------|------------|------------|------------|------------|
| Tyco | | | | | | | |
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 8-1437624-2 | PKN60B1/8 | .591(15.0) | .579(14.7) | .394(10.0) | .079(2.01) | .394(10.0) | .453(11.5) |
| | PKN60B1/4 | .591(15.0) | .579(14.7) | .394(10.0) | .079(2.01) | .394(10.0) | .453(11.5) |
| 8-1437624-3 | PKN70B1/4 | .787(20.0) | .764(19.4) | .571(14.5) | .098(2.49) | .492(12.5) | .591(15.0) |
| 8-1437624-4 | PKN90B1/4 | .984(25.0) | .957(24.3) | .748(19.0) | .098(2.49) | .591(15.0) | .689(17.5) |

K

P Series

Knobs, Molded Phenolic

PKS SERIES



PKS1104B1/4

| | | Straight Knurl with Indicator Line on Skirt | | | | | |
|------------------|-------------|---|------------|------------|------------|-------------|------------|
| Tyco Electronics | Alcoswitch | A | B | C | D | E | F |
| 9-1437624-5 | PKS1104B1/4 | 1.12(28.5) | .567(14.4) | .620(15.8) | .090(2.29) | .510(12.95) | .670(17.0) |

PKS SERIES

| | | Straight Knurl Aluminum Skirt Has Line or 0-9 Numbers | | | | | | |
|------------------|---------------|---|------------|------------|------------|------------|------------|---------|
| Tyco Electronics | Alcoswitch | A | B | C | D | E | F | Marking |
| 9-1437624-4 | PKS1103B101/4 | 1.17(29.6) | .571(14.5) | .620(15.7) | .098(2.49) | .516(13.1) | .670(17.0) | Numbers |
| 9-1437624-7 | PKS1106B1/4 | 1.17(29.6) | .571(14.5) | .618(15.7) | .098(2.49) | .516(13.1) | .670(17.0) | Line |
| 9-1437624-6 | PKS1105B101/4 | 1.17(29.6) | .571(14.5) | .618(15.7) | .098(2.49) | .516(13.1) | .670(17.0) | Numbers |



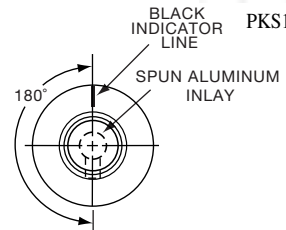
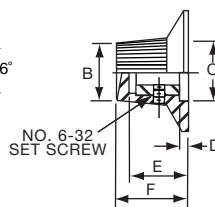
PKS1106B1/4



PKS1103B101/4

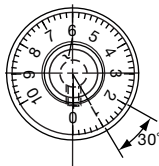


PKS1105B101/4

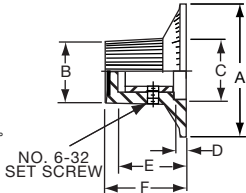


PKS SERIES

SPUN ALUMINUM INLAY



0-10



+5-5



0-9



Indicator Line



PKS1132B51/4

| | | Choice of Indicator Line or 0-9, 0-10, -5+5 Numerals | | | | | | |
|------------------|---------------|--|------------|------------|------------|-------------|------------|----------------|
| Tyco Electronics | Alcoswitch | A | B | C | D | E | F | Marking |
| 1437625-1 | PKS1132B51/4 | 1.18(30.0) | .551(14.0) | .551(14.0) | .118(30.0) | .615(15.62) | .748(19.0) | +5-0-5 |
| 1437625-2 | PKS1132B91/4 | 1.18(30.0) | .551(14.0) | .551(14.0) | .118(30.0) | .615(15.62) | .748(19.0) | 0-9 |
| 9-1437624-9 | PKS1132B101/4 | 1.18(30.0) | .551(14.0) | .551(14.0) | .118(30.0) | .615(15.62) | .748(19.0) | 0-10 |
| 9-1437624-8 | *PKS1132B1/4 | 1.18(30.0) | .551(14.0) | .551(14.0) | .118(30.0) | .615(15.62) | .748(19.0) | Indicator Line |

*1 Set screw 180° from indicator line.



PKS1132B91/4

Knobs, Molded Phenolic

PKS SERIES



PKS90B1/4



PKS90B101/4



| Tyco Straight Knurl with Aluminum Skirt Choice of Arrow or 1-10 Numbers | | | | | | | | | |
|---|-------------|------------|------------|------------|------------|------------|------------|---------|--|
| Electronics | Alcoswitch | A | B | C | D | E | F | Marking | |
| 1437625-5 | PKS90B1/4 | 1.42(36.1) | .917(23.3) | .780(19.8) | .065(1.65) | .490(12.5) | .596(15.1) | Arrow | |
| 1437625-6 | PKS90B101/4 | 1.42(36.1) | .917(23.3) | .780(19.8) | .065(1.65) | .490(12.5) | .596(15.1) | Numbers | |

PKX SERIES



PKX50B1/8



(1) 6-32 SET SCREW EXCEPT PKX-50B, (1) 4-40

| Tyco Ribbed Body, Matte Finish with White Square Indicator on Top | | | | | | | |
|---|------------|------------|------------|------------|------------|-------------|------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 1-1437625-5 | PKX50B1/8 | .590(15.0) | .472(12.0) | .374(9.49) | .059(1.50) | .463(11.76) | .551(14.0) |
| 1-1437625-4 | PKX50B1/4 | .590(15.0) | .472(12.0) | .374(9.49) | .059(1.50) | .463(11.76) | .551(14.0) |
| 1-1437625-7 | PKX60B1/8 | .787(20.0) | .625(15.9) | .472(12.0) | .078(1.98) | .510(13.0) | .598(15.2) |
| 1-1437625-6 | PKX60B1/4 | .787(20.0) | .625(15.9) | .472(12.0) | .078(1.98) | .510(13.0) | .598(15.2) |

PKX SERIES



PKX110B1/4



(2) 6-32 SET SCREWS

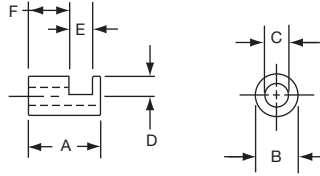
| Tyco Ribbed Body, Matte Finish with White Square Indicator on Top | | | | | | | |
|---|------------|------------|--------------|-------------|------------|-------------|-------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 1-1437625-1 | PKX100B1/4 | 1.17(29.7) | .970(24.6) | .780(19.81) | .114(2.90) | .570(14.48) | .674(17.12) |
| 1-1437625-2 | PKX110B1/4 | 1.37(34.8) | 1.120(28.45) | .940(23.88) | .100(2.54) | .527(13.38) | .705(17.91) |
| 1-1437625-3 | PKX130B1/4 | 1.57(40.0) | 1.308(33.22) | 1.09(27.6) | .118(3.00) | .623(15.82) | .750(19.05) |

K

P Series

Knob Accessories

ACCESSORIES



KR1

| Tyco | | Shaft Hole Size Adaptors | | | | | |
|-------------|-------------------|--------------------------|------------|------------|------------|------------|------------|
| Electronics | Alcoswitch | A | B | C | D | E | F |
| 9-1437627-6 | KR1 (1/4"TO1/8") | .374(9.50) | .250(6.35) | .128(3.25) | .122(3.10) | .217(5.51) | .122(3.10) |
| 9-1437627-7 | KR2 (1/4"TO3/16") | .375(9.53) | .250(6.35) | .190(4.83) | .122(3.10) | .216(5.49) | .123(3.12) |
| 9-1437627-8 | KR3 (1/4"TO4MM) | .375(9.53) | .248(6.30) | .161(4.09) | .122(3.10) | .216(5.49) | .123(3.12) |

Engineering Notes



K

Engineering Notes

K22

Catalog 1308390
Issued 9-04

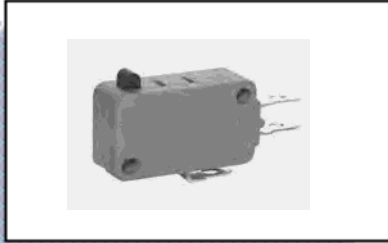
www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

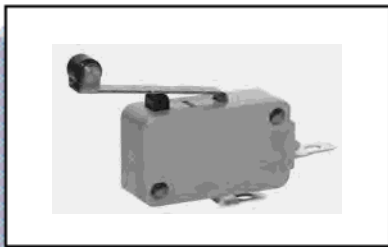
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967



Miniature Pin Plunger - Page L3



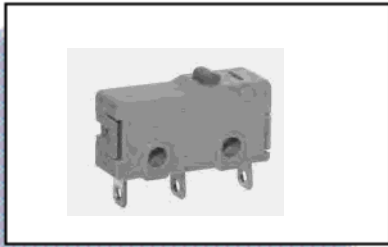
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Miniature Roller - Page L7



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Subminiature Lever - Page L11



Subminiature Roller - Page L12



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| 1478606-7 |L9 | 1478616-2 |L4 | 1478671-4 |L6 |
| 1478607-1 |L3 | 1478616-3 |L5 | 1478671-5 |L7 |
| 1478607-2 |L4 | 1478616-4 |L6 | 1478671-6 |L8 |
| 1478607-3 |L5 | 1478616-5 |L7 | 1478671-7 |L9 |
| 1478607-4 |L6 | 1478616-6 |L8 | 1478672-1 |L3 |
| 1478607-5 |L7 | 1478616-7 |L9 | 1478672-2 |L4 |
| 1478607-6 |L8 | 1478617-1 |L3 | 1478672-3 |L5 |
| 1478607-7 |L9 | 1478617-2 |L4 | 1478672-4 |L6 |
| 1478608-1 |L3 | 1478617-3 |L5 | 1478672-5 |L7 |
| 1478608-2 |L4 | 1478617-4 |L6 | 1478672-6 |L8 |
| 1478608-3 |L5 | 1478617-5 |L7 | 1478672-7 |L9 |
| 1478608-4 |L6 | 1478617-6 |L8 | | |
| 1478608-5 |L7 | 1478617-7 |L9 | | |
| 1478608-6 |L8 | 1478618-1 |L3 | | |
| 1478608-7 |L9 | 1478618-2 |L4 | | |
| 1478609-1 |L3 | 1478618-3 |L5 | | |
| 1478609-2 |L4 | 1478618-4 |L6 | | |
| 1478609-3 |L5 | 1478618-5 |L7 | | |
| 1478609-4 |L6 | 1478618-6 |L8 | | |
| 1478609-5 |L7 | 1478618-7 |L9 | | |
| 1478609-6 |L8 | 1478619-1 |L3 | | |
| 1478609-7 |L9 | 1478619-2 |L4 | | |
| 1478610-1 |L3 | 1478619-3 |L5 | | |

Miniature Microswitch Introduction

Alcoswitch miniature microswitches are offered with many options to suit most typical applications.

These switches are available in a current range from 16A to .1A. Additional options available throughout the different current ratings include:

- Pin Plunger**
- Short, normal and long lever**
- Short and normal roller**
- Simulated lever**
- SPDT, SPNO and SPNC circuitry**

Within the 16A range, in addition to two different terminal options, there are three different actuation force options.

You can count on this offering of switches to be high reliability and low cost to fulfill your basic microswitch needs. Of course if you need something custom, we can offer that also. Contact your Tyco Electronics sales engineer for details.

Technical Information

Performance Information

| | | | |
|---|--|-----------|---------------------------|
| Amp Rating | 16 | 5 | 0.1 |
| Insulation Resistance | Min. 100M ohm | | |
| Contact Resistance | max 15M ohm | | Max 50M ohm |
| Dielectric Strength | Between Non-consecutive terminals | AC 2,000V | |
| | Between each terminal & earth | AC 2,000V | |
| Operating Speed | 0.2mm/sec - 1,000mm/sec | | 1mm/sec - 500mm/sec |
| Max Allowed Mechanical Open/close Frequencies | 600 Cycles/min | | 300 Cycles/min |
| Shock Resistance (without lever) | 300mm/sec ² (approx 30G) | | |
| Vibration Resistance (without lever) | 1.5mm 10 - 55Hz (2Hr) | | 1.5mm 10 - 20Hz (2Hr) |
| Electrical Life | 100,000 Operations at rated load (max 20 Operations/min) | | 1,000,000 Operations |
| Mechanical Life | 10,000,000 operations (Max 200 operations/min) | | |
| Safety Approval | UL / CSA / VDE | | |
| Operating Temperature Range | -20°C to +130°C RH85% Max | | -30°C to +130°C RH90% Max |

See drawings for DC ratings.

Materials

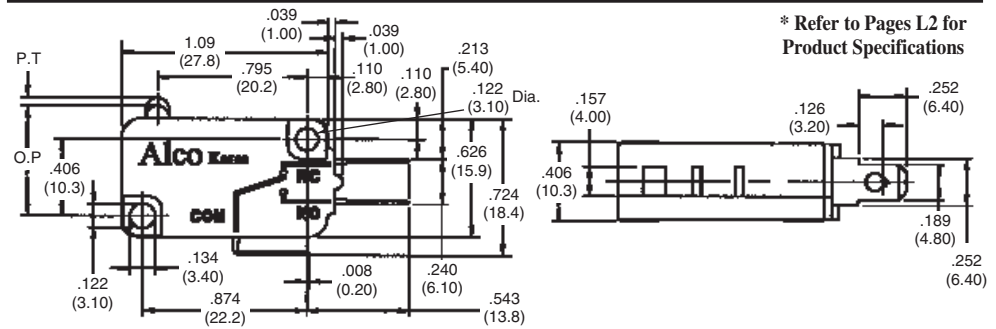
| | 5 & 16A | .1A |
|-----------------|---------------------------|---------------------------|
| Case and Cover | P.B.T Resin, UL 94 V-0 | P.B.T Resin, UL 94 V-0 |
| Movable Contact | Brass, Silver Plated | Phosphor Bronze |
| Guide Plate | Brass, Silver Plated | Brass, Silver Plated |
| Plate Spring | Beryllium Copper | Beryllium Copper |
| Terminal Aid | Brass | Brass |
| Contact | Silver Alloy | Gold Alloy |
| Common Terminal | Brass, Silver Plated | Brass, Silver Plated |
| Terminals | Brass, Silver Plated | Brass |
| Actuator | Phenolic Resin, UL 94 V-0 | Phenolic Resin, UL 94 V-0 |
| Lever | Stainless Steel | Stainless Steel |

Spade/Solder Type Terminal



Product Facts

- n .187 [4.75] tab with solder hole
- n Use .187 [4.75] FASTON receptacles or solder wire directly to terminal



* Refer to Pages L2 for Product Specifications

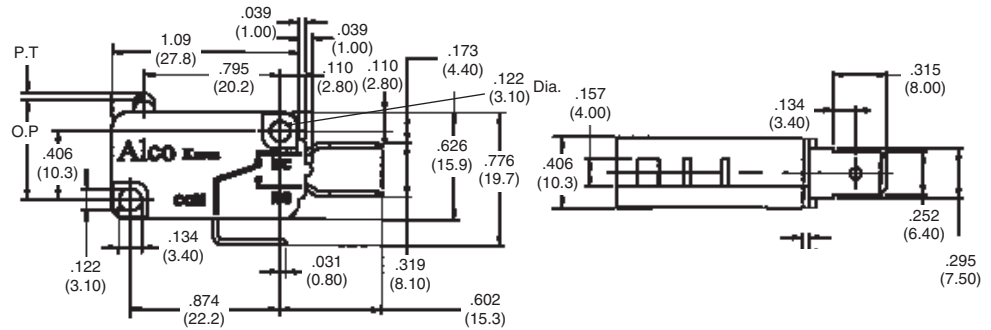
| AMP | Switch Position | Operating Force | Releasing Force | Pre Travel (P.T.) | Operating Position | Over Travel | Movement Differential | Part Number |
|-----|-----------------|-----------------|-----------------|-------------------|--------------------------|-------------------|-----------------------|-------------|
| | SPDT | 120g | 20g | 1.6 m/m [.063] | 14.8 ±0.4 [.582±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478603-1 |
| | | 200g | 50g | | | | | 1478604-1 |
| | | 300g | 70g | | | | | 1478605-1 |
| 16 | SPNC | 120g | 20g | 1.6 m/m [.063] | 14.8 ±0.4 [.582±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478609-1 |
| | | 200g | 50g | | | | | 1478610-1 |
| | | 300g | 70g | | | | | 1478611-1 |
| | SPNO | 120g | 20g | 1.6 m/m [.063] | 14.8 ±0.4 [.582±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478615-1 |
| | | 200g | 50g | | | | | 1478616-1 |
| | | 300g | 70g | | | | | 1478617-1 |
| 5 | SPDT | 120g | 20g | 1.6 m/m [.063] | 14.8 ±0.4 [.582±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478667-1 |
| | SPNC | | | | | | | 1478668-1 |
| | SPNO | | | | | | | 1478669-1 |
| 0.1 | SPDT | 60g | 12g | 1.6 m/m [.063] | 14.8 ±0.4 [.582±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478670-1 |
| | SPNC | | | | | | | 1478671-1 |
| | SPNO | | | | | | | 1478672-1 |

Spade Type Terminal



Product Facts

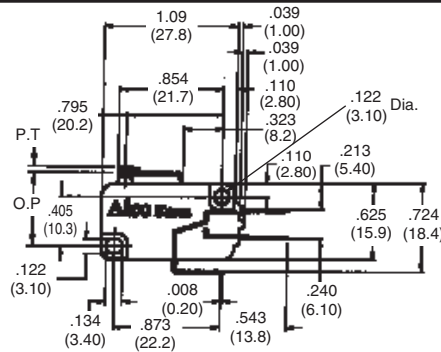
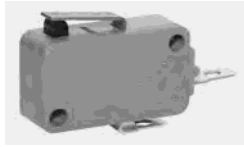
- n .250 [6.35] tab for use with .250 [6.35] FASTON receptacles



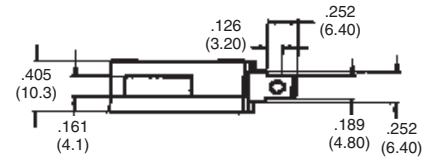
| AMP | Switch Position | Operating Force | Releasing Force | Pre Travel (P.T.) | Operating Position | Over Travel | Movement Differential | Part Number |
|-----|-----------------|-----------------|-----------------|-------------------|--------------------------|-------------------|-----------------------|-------------|
| | SPDT | 120g | 20g | 1.6 m/m [.063] | 14.8 ±0.4 [.582±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478606-1 |
| | | 200g | 50g | | | | | 1478607-1 |
| | | 300g | 70g | | | | | 1478608-1 |
| 16 | SPNC | 120g | 20g | 1.6 m/m [.063] | 14.8 ±0.4 [.582±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478612-1 |
| | | 200g | 50g | | | | | 1478613-1 |
| | | 300g | 70g | | | | | 1478614-1 |
| | SPNO | 120g | 20g | 1.6 m/m [.063] | 14.8 ±0.4 [.582±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478618-1 |
| | | 200g | 50g | | | | | 1478619-1 |
| | | 300g | 70g | | | | | 1478620-1 |

Miniature Short Lever

Spade/Solder Type Terminal



* Refer to Pages L2 for Product Specifications

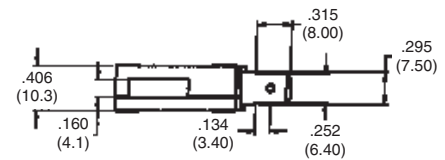
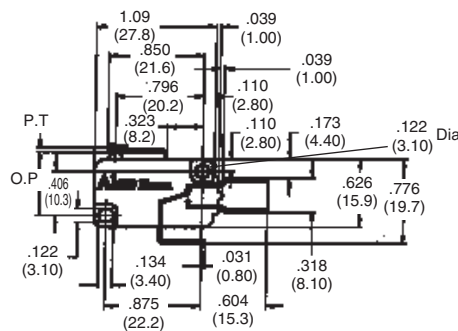


Product Facts

- n .187 [4.75] tab with solder hole
- n Use .187 [4.75] FASTON receptacles or solder wire directly to terminal
- n Short lever to increase operating position

| AMP | Switch Position | Operating Force | Releasing Force | Pre Travel (P.T.) | Operating Position | Over Travel | Movement Differential | Part Number |
|------|-----------------|-----------------|-------------------|--------------------------|--------------------------|-------------------|-----------------------|-------------|
| 16 | SPDT | 120g | 20g | 1.6 m/m [.063] | 14.8 ±0.4 [.606±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478603-2 |
| | | 200g | 50g | | | | | 1478604-2 |
| | | 330g | 70g | | | | | 1478605-2 |
| | SPNC | 120g | 20g | 1.6 m/m [.063] | 14.8 ±0.4 [.606±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478609-2 |
| | | 200g | 50g | | | | | 1478610-2 |
| | | 330g | 70g | | | | | 1478611-2 |
| SPNO | 120g | 20g | 1.6 m/m [.063] | 14.8 ±0.4 [.606±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478615-2 | |
| | 200g | 50g | | | | | 1478616-2 | |
| | 330g | 70g | | | | | 1478617-2 | |
| 5 | SPDT | 120g | 20g | 1.6 m/m [.063] | 14.8 ±0.4 [.606±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478667-2 |
| | SPNC | | | | | | | 1478668-2 |
| | SPNO | | | | | | | 1478669-2 |
| 0.1 | SPDT | 60g | 12g | 1.6 m/m [.063] | 14.8 ±0.4 [.606±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478670-2 |
| | SPNC | | | | | | | 1478671-2 |
| | SPNO | | | | | | | 1478672-2 |

Spade Type Terminal



Product Facts

- n .250 [6.35] tab for use with .250 [6.35] FASTON receptacles
- n Short lever to increase operating positions

| AMP | Switch Position | Operating Force | Releasing Force | Pre Travel (P.T.) | Operating Position | Over Travel | Movement Differential | Part Number |
|------|-----------------|-----------------|-------------------|--------------------------|--------------------------|-------------------|-----------------------|-------------|
| 16 | SPDT | 120g | 20g | 1.6 m/m [.063] | 15.4 ±0.4 [.606±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478606-2 |
| | | 200g | 50g | | | | | 1478607-2 |
| | | 330g | 70g | | | | | 1478608-2 |
| | SPNC | 120g | 20g | 1.6 m/m [.063] | 15.4 ±0.4 [.606±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478612-2 |
| | | 200g | 50g | | | | | 1478613-2 |
| | | 330g | 70g | | | | | 1478614-2 |
| SPNO | 120g | 20g | 1.6 m/m [.063] | 15.4 ±0.4 [.606±.016] | 0.8 m/m [.031] | 0.4 m/m [.016] | 1478618-2 | |
| | 200g | 50g | | | | | 1478619-2 | |
| | 330g | 70g | | | | | 1478620-2 | |

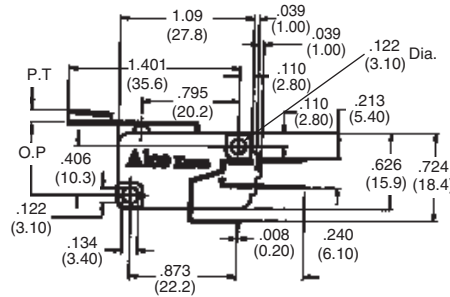
Miniature Normal Lever

Spade/Solder Type Terminal

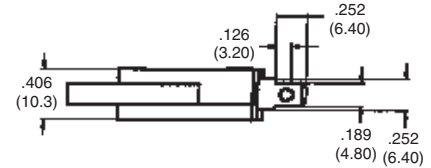


Product Facts

- n .187 [4.75] tab with solder hole
- n Use .187 [4.75] FASTON receptacles or solder wire directly to terminal
- n Lever to increase travel and operating position as well as reduce operating force

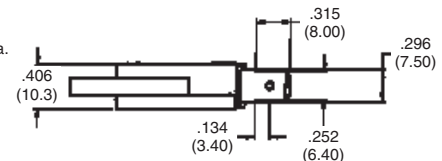
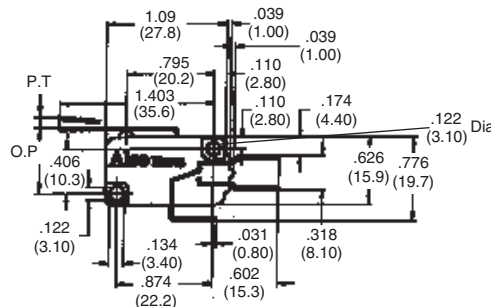


* Refer to Pages L2 for Product Specifications



| AMP | Switch Position | Operating Force | Releasing Force | Pre Travel (P.T.) | Operating Position | Over Travel | Movement Differential | Part Number |
|------|-----------------|-----------------|-----------------|-------------------|--------------------|-------------|-----------------------|-------------|
| 16 | SPDT | 60g | 10g | 4.0 m/m | 15.4 ±1.4 | 1.3 m/m | 1.2 m/m | 1478603-3 |
| | | 120g | 20g | [.157] | [.606±.055] | [.051] | [.047] | 1478604-3 |
| | | 180g | 30g | | | | | 1478605-3 |
| | SPNC | 60g | 10g | 4.0 m/m | 15.4 ±1.4 | 1.3 m/m | 1.2 m/m | 1478609-3 |
| | | 120g | 20g | [.157] | [.606±.055] | [.051] | [.047] | 1478610-3 |
| | | 180g | 30g | | | | | 1478611-3 |
| SPNO | 60g | 10g | 4.0 m/m | 15.4 ±1.4 | 1.3 m/m | 1.2 m/m | 1478615-3 | |
| | 120g | 20g | [.157] | [.606±.055] | [.051] | [.047] | 1478616-3 | |
| | 180g | 30g | | | | | 1478617-3 | |
| 5 | SPDT | | | | | | | 1478667-3 |
| | SPNC | 60g | 10g | 4.0 m/m | 15.4 ±1.4 | 1.3 m/m | 1.2 m/m | 1478668-3 |
| | SPNO | | | [.157] | [.606±.055] | [.051] | [.047] | 1478669-3 |
| 0.1 | SPDT | | | | | | | 1478670-3 |
| | SPNC | 35g | 6g | 4.0 m/m | 15.4 ±1.4 | 1.3 m/m | 1.2 m/m | 1478671-3 |
| | SPNO | | | [.157] | [.606±.055] | [.051] | [.047] | 1478672-3 |

Spade Type Terminal



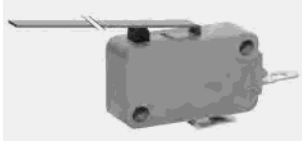
Product Facts

- n .250 [6.35] tab for use with .250 [6.35] FASTON receptacles
- n Lever to increase travel and operating position as well as reduce operating force

| AMP | Switch Position | Operating Force | Releasing Force | Pre Travel (P.T.) | Operating Position | Over Travel | Movement Differential | Part Number |
|------|-----------------|-----------------|-----------------|-------------------|--------------------|-------------|-----------------------|-------------|
| 16 | SPDT | 60g | 10g | 4.0 m/m | 15.4 ±1.4 | 1.3 m/m | 1.2 m/m | 1478606-3 |
| | | 120g | 20g | [.157] | [.606±.055] | [.051] | [.047] | 1478607-3 |
| | | 180g | 30g | | | | | 1478608-3 |
| | SPNC | 60g | 10g | 4.0 m/m | 15.4 ±1.4 | 1.3 m/m | 1.2 m/m | 1478612-3 |
| | | 120g | 20g | [.157] | [.606±.055] | [.051] | [.047] | 1478613-3 |
| | | 180g | 30g | | | | | 1478614-3 |
| SPNO | 60g | 10g | 4.0 m/m | 15.4 ±1.4 | 1.3 m/m | 1.2 m/m | 1478618-3 | |
| | 120g | 20g | [.157] | [.606±.055] | [.051] | [.047] | 1478619-3 | |
| | 180g | 30g | | | | | 1478620-3 | |

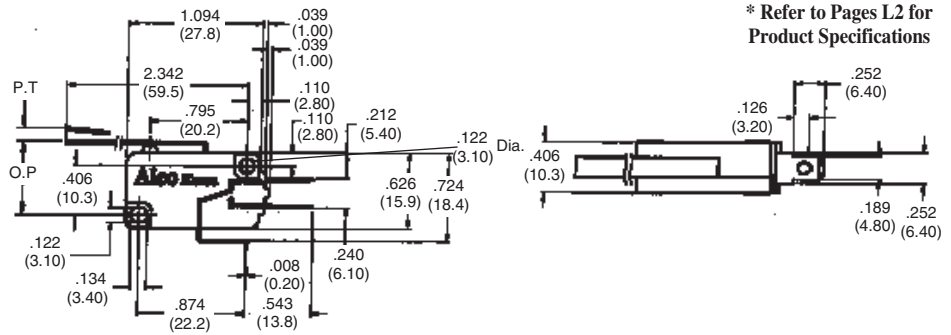
Miniature Long Lever

Spade/Solder Type Terminal



Product Facts

- n .187 [4.75] tab with solder holes
- n Use .187 [4.75] FASTON receptacles or solder wire directly to terminal
- n Long lever to increase travel and reduce operating force



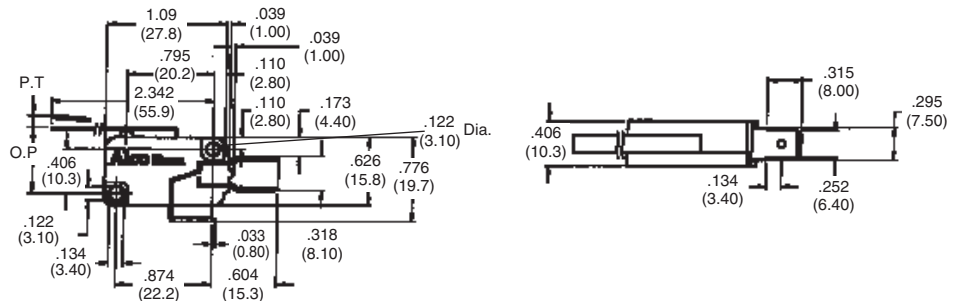
| AMP | Switch Position | Operating Force | Releasing Force | Pre Travel (P.T.) | Operating Position | Over Travel | Movement Differential | Part Number |
|------|-----------------|-----------------|-------------------|--------------------------|--------------------------|-------------------|-----------------------|-------------|
| 16 | SPDT | 30g | 5g | 7.5 m/m [.295] | 15.4 ±3.0 [.606±.118] | 2.6 m/m [.102] | 2.4 m/m [.094] | 1478603-4 |
| | | 60g | 10g | | | | | 1478604-4 |
| | | 90g | 15g | | | | | 1478605-4 |
| | SPNC | 30g | 5g | 7.5 m/m [.295] | 15.4 ±3.0 [.606±.118] | 2.6 m/m [.102] | 2.4 m/m [.094] | 1478609-4 |
| | | 60g | 10g | | | | | 1478610-4 |
| | | 90g | 15g | | | | | 1478611-4 |
| SPNO | 30g | 5g | 7.5 m/m [.295] | 15.4 ±3.0 [.606±.118] | 2.6 m/m [.102] | 2.4 m/m [.094] | 1478615-4 | |
| | 60g | 10g | | | | | 1478616-4 | |
| | 90g | 15g | | | | | 1478617-4 | |
| 5 | SPDT | 30g | 5g | 7.5 m/m [.295] | 15.4 ±3.0 [.606±.118] | 2.6 m/m [.102] | 2.4 m/m [.094] | 1478667-4 |
| | SPNC | | | | | | | 1478668-4 |
| | SPNO | | | | | | | 1478669-4 |
| 0.1 | SPDT | 15g | 3g | 7.5 m/m [.295] | 15.4 ±3.0 [.606±.118] | 2.6 m/m [.102] | 2.4 m/m [.094] | 1478670-4 |
| | SPNC | | | | | | | 1478671-4 |
| | SPNO | | | | | | | 1478672-4 |

Spade Type Terminal



Product Facts

- n .250 [6.35] tab for use with .250 [6.35] FASTON receptacles
- n Long lever to increase travel and reduce operating force



| AMP | Switch Position | Operating Force | Releasing Force | Pre Travel (P.T.) | Operating Position | Over Travel | Movement Differential | Part Number |
|------|-----------------|-----------------|-------------------|--------------------------|--------------------------|-------------------|-----------------------|-------------|
| 16 | SPDT | 30g | 5g | 7.5 m/m [.295] | 15.4 ±3.0 [.606±.118] | 2.6 m/m [.102] | 2.4 m/m [.094] | 1478606-4 |
| | | 60g | 10g | | | | | 1478607-4 |
| | | 90g | 15g | | | | | 1478608-4 |
| | SPNC | 30g | 5g | 7.5 m/m [.295] | 15.4 ±3.0 [.606±.118] | 2.6 m/m [.102] | 2.4 m/m [.094] | 1478612-4 |
| | | 60g | 10g | | | | | 1478613-4 |
| | | 90g | 15g | | | | | 1478614-4 |
| SPNO | 30g | 5g | 7.5 m/m [.295] | 15.4 ±3.0 [.606±.118] | 2.6 m/m [.102] | 2.4 m/m [.094] | 1478618-4 | |
| | 60g | 10g | | | | | 1478619-4 | |
| | 90g | 15g | | | | | 1478620-4 | |

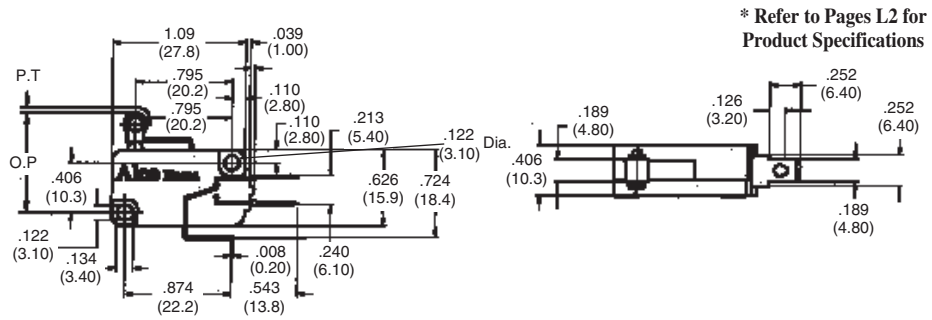
Miniature Short Roller

Spade/Solder Type Terminal



Product Facts

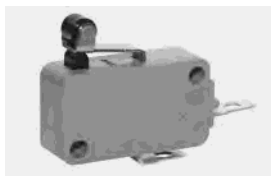
- n .187 [4.75] tab with solder holes
- n Use .187 [4.75] FASTON receptacles or solder wire directly to terminal
- n Short roller to increase operating force and position



* Refer to Pages L2 for Product Specifications

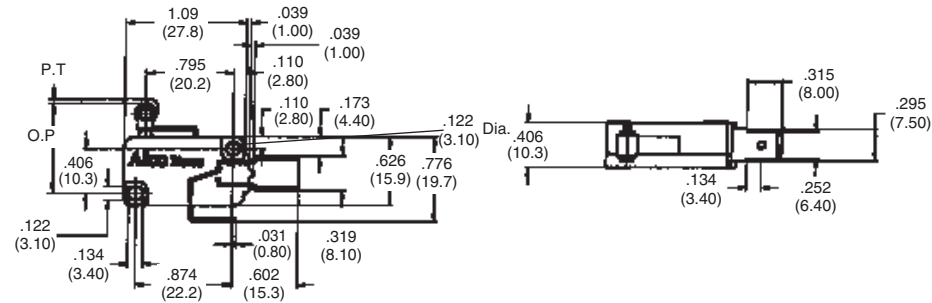
| AMP | Switch Position | Operating Force | Releasing Force | Pre Travel (P.T.) | Operating Position | Over Travel | Movement Differential | Part Number |
|------|-----------------|-----------------|-----------------|-------------------|--------------------|-------------|-----------------------|-------------|
| 16 | SPDT | 140g | 20g | 1.6 m/m | 20.7 ±0.8 | 0.8 m/m | 0.4 m/m | 1478603-5 |
| | | 240g | 50g | [.063] | [.815±.003] | [.031] | [.016] | 1478604-5 |
| | | 350g | 70g | | | | | 1478605-5 |
| | SPNC | 140g | 20g | 1.6 m/m | 20.7 ±0.8 | 0.8 m/m | 0.4 m/m | 1478609-5 |
| | | 240g | 50g | [.063] | [.815±.003] | [.031] | [.016] | 1478610-5 |
| | | 350g | 70g | | | | | 1478611-5 |
| SPNO | 140g | 20g | 1.6 m/m | 20.7 ±0.8 | 0.8 m/m | 0.4 m/m | 1478615-5 | |
| | 240g | 50g | [.063] | [.815±.003] | [.031] | [.016] | 1478616-5 | |
| | 350g | 70g | | | | | 1478617-5 | |
| 5 | SPDT | 140g | 20g | 1.6 m/m | 20.7 ±0.8 | 0.8 m/m | 0.4 m/m | 1478667-5 |
| | SPNC | | | | | | | 1478668-5 |
| | SPNO | | | | | | | 1478669-5 |
| 0.1 | SPDT | 60g | 12g | 1.6 m/m | 20.7 ±0.8 | 0.8 m/m | 0.4 m/m | 1478670-5 |
| | SPNC | | | | | | | 1478671-5 |
| | SPNO | | | | | | | 1478672-5 |

Spade Type Terminal



Product Facts

- n .250 [6.35] tab for use with .250 [6.35] FASTON receptacles
- n Short roller to increase operating force and position



| AMP | Switch Position | Operating Force | Releasing Force | Pre Travel (P.T.) | Operating Position | Over Travel | Movement Differential | Part Number |
|------|-----------------|-----------------|-----------------|-------------------|--------------------|-------------|-----------------------|-------------|
| 16 | SPDT | 140g | 20g | 1.6 m/m | 20.7 ±0.8 | 0.8 m/m | 0.4 m/m | 1478606-5 |
| | | 240g | 50g | [.063] | [.815±.003] | [.031] | [.016] | 1478607-5 |
| | | 350g | 70g | | | | | 1478608-5 |
| | SPNC | 140g | 20g | 1.6 m/m | 20.7 ±0.8 | 0.8 m/m | 0.4 m/m | 1478612-5 |
| | | 240g | 50g | [.063] | [.815±.003] | [.031] | [.016] | 1478613-5 |
| | | 350g | 70g | | | | | 1478614-5 |
| SPNO | 140g | 20g | 1.6 m/m | 20.7 ±0.8 | 0.8 m/m | 0.4 m/m | 1478618-5 | |
| | 240g | 50g | [.063] | [.815±.003] | [.031] | [.016] | 1478619-5 | |
| | 350g | 70g | | | | | 1478620-5 | |

Miniature Simulator Lever

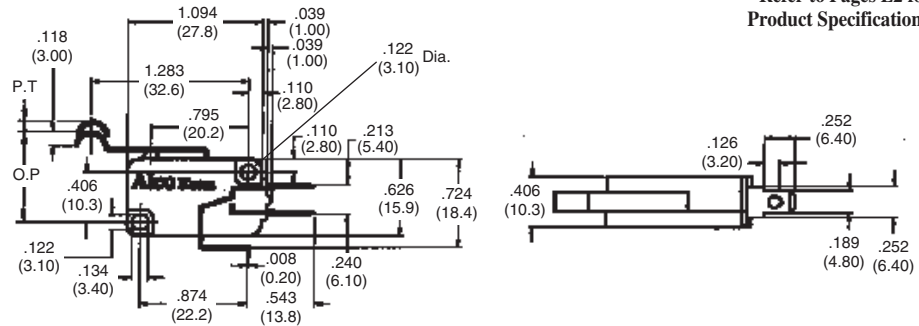
* Refer to Pages L2 for Product Specifications

Spade/Solder Type Terminal



Product Facts

- n .187 [4.75] tab with solder hole
- n Use .187 [4.75] FASTON receptacles or solder directly to terminal
- n Simulator lever for operating position between a roller and a lever



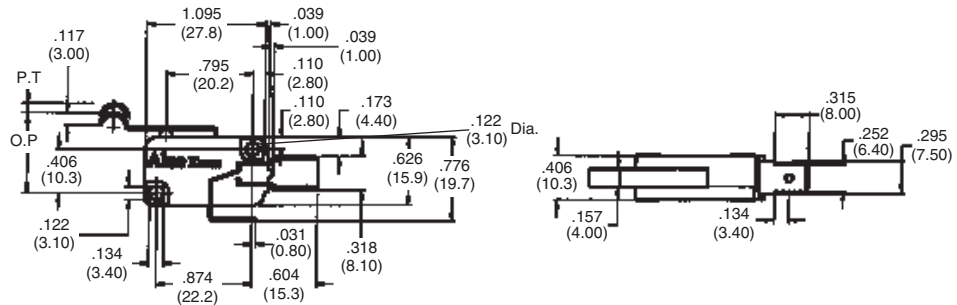
| AMP | Switch Position | Operating Force | Releasing Force | Pre Travel (P.T.) | Operating Position | Over Travel | Movement Differential | Part Number |
|------|-----------------|-----------------|-----------------|-------------------|--------------------|-------------|-----------------------|-------------|
| 16 | SPDT | 60g | 10g | 4.0 m/m | 18.6 ±1.5 | 1.3 m/m | 1.2 m/m | 1478603-7 |
| | | 120g | 20g | [.157] | [.732±.059] | [.051] | [.047] | 1478604-7 |
| | | 180g | 30g | | | | | 1478605-7 |
| | SPNC | 60g | 10g | 4.0 m/m | 18.6 ±1.5 | 1.3 m/m | 1.2 m/m | 1478609-7 |
| | | 120g | 20g | [.157] | [.732±.059] | [.051] | [.047] | 1478610-7 |
| | | 180g | 30g | | | | | 1478611-7 |
| SPNO | 60g | 10g | 4.0 m/m | 18.6 ±1.5 | 1.3 m/m | 1.2 m/m | 1478615-7 | |
| | 120g | 20g | [.157] | [.732±.059] | [.051] | [.047] | 1478616-7 | |
| | 180g | 30g | | | | | 1478617-7 | |
| 5 | SPDT | | | 4.0 m/m | 18.6 ±1.5 | 1.3 m/m | 1.2 m/m | 1478667-7 |
| | SPNC | 60g | 10g | [.157] | [.732±.059] | [.051] | [.047] | 1478668-7 |
| | SPNO | | | | | | | 1478669-7 |
| 0.1 | SPDT | | | 4.0 m/m | 18.6 ±1.5 | 1.3 m/m | 1.2 m/m | 1478670-7 |
| | SPNC | 35g | 6g | [.157] | [.732±.059] | [.051] | [.047] | 1478671-7 |
| | SPNO | | | | | | | 1478672-7 |

Spade Type Terminal



Product Facts

- n .250 [6.35] tab for use with .250 [6.35] FASTON receptacles
- n Simulator lever for operating position between a roller and a lever



| AMP | Switch Position | Operating Force | Releasing Force | Pre Travel (P.T.) | Operating Position | Over Travel | Movement Differential | Part Number |
|------|-----------------|-----------------|-----------------|-------------------|--------------------|-------------|-----------------------|-------------|
| 16 | SPDT | 60g | 10g | 4.0 m/m | 18.6 ±1.5 | 1.3 m/m | 1.2 m/m | 1478606-7 |
| | | 120g | 20g | [.157] | [.732±.059] | [.051] | [.047] | 1478607-7 |
| | | 180g | 30g | | | | | 1478608-7 |
| | SPNC | 60g | 10g | 4.0 m/m | 18.6 ±1.5 | 1.3 m/m | 1.2 m/m | 1478612-7 |
| | | 120g | 20g | [.157] | [.732±.059] | [.051] | [.047] | 1478613-7 |
| | | 180g | 30g | | | | | 1478614-7 |
| SPNO | 60g | 10g | 4.0 m/m | 18.6 ±1.5 | 1.3 m/m | 1.2 m/m | 1478618-7 | |
| | 120g | 20g | [.157] | [.732±.059] | [.051] | [.047] | 1478619-7 | |
| | 180g | 30g | | | | | 1478620-7 | |

Subminiature Microswitches

Alcoswitch subminiature micro switches are available with many options to fit applications with limited space and a 5 Amp or less current draw.

With the options of levers, rollers and simulator, a variety of operating forces, operating positions and travel distances are available to fit most applications. In addition to tabs and solder terminals, this line is available with PC terminals to mount directly to your PC board.

If this offering doesn't fit your application needs, contact the product information center or your Tyco sales person to discuss a custom product.

Technical Information

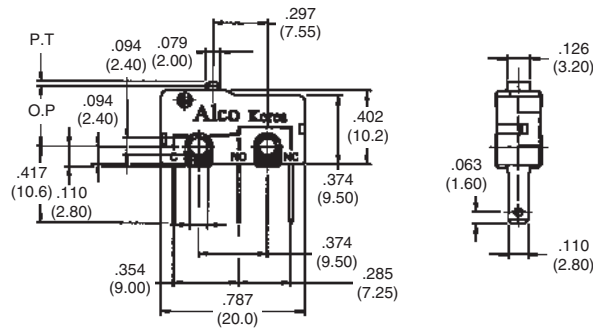
| Performance Information | | |
|--------------------------------------|---|---------------------------|
| Amp Rating | 5 | |
| Insulation Resistance | Min. 100M ohm (at 500V DC) | |
| Contact Resistance | Max 50M ohm (by voltage drop, 1A 6V-8V DC) | |
| Dielectric Strength | Between terminals | 1000Vrms for 1 min |
| | Between terminals & other exposed metal parts | 1500Vrms for 1 min |
| | Between terminals and earth | 1500Vrms for 1 min |
| Temperature Rise | 30°C Max | |
| Terminal Strength | 6kg pulling and push torque shall be applied for 1min | |
| Allowable Operating Speed | 0.1 to 1,000 mm/sec | |
| Shock Resistance (without lever) | Min 30G (O.F. 100g. 150g) | Contact opening max 1msec |
| | Min 15G (O.F. 50g) | — |
| Vibration Resistance (without lever) | 9G, 10 to 55 Hz at double amplitude of 1.5mm (contact opening, max 1msec) | |
| Electrical Life | 50,000 at 20cpm | |
| Mechanical Life | 500,000 at 60cpm | |
| Mechanical Repeatability | 300 cpm | |
| Safety Approval | UL / CSA | |
| Ambient Temperature | -25°C to +85°C | |

| Materials | |
|-------------------|--|
| Case and Cover | P.B.T Resin, UL94 V-0 PA 66, UL94 V-0 |
| Movable Contactor | Beryllium Copper, with or without silver plating |
| Button | Phenolic Resin, UL94 HB or UL94V0 |
| Common Terminal | Brass, silver plated |
| Terminal (NC) | Brass |
| Terminal (NO) | Brass |
| Movable Contact | Silver alloy |
| Fixed Contact | Silver alloy, silver plated |
| Lever | Stainless Steel |



Subminiature Pin Plunger

Pin Plunger



* Refer to Pages L10 for Product Specifications

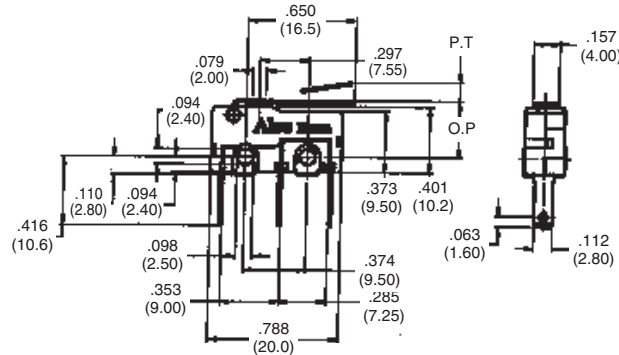
Product Facts

- Available in tab, PCB or solder terminals
- Versatile pin plunger option

| Terminal Style | AMP | Switch Position | Operating Force | Releasing Force | Pre Travel | Operating Position | Over Travel | Movement Differential | Part Number |
|----------------|-----|-----------------|-----------------|-----------------|-------------------|-------------------------|-------------------|-----------------------|-------------|
| TAB | 5 | SPDT | 150g | 20g | 0.6 m/m [.024] | 8.4 ±0.4 [.331±.016] | 0.3 m/m [.012] | 0.2 m/m [.008] | 1478600-1 |
| PCB | | | | | | | | | 1478601-1 |
| Solder | | | | | | | | | 1478602-1 |

Subminiature Normal Lever

Normal Lever



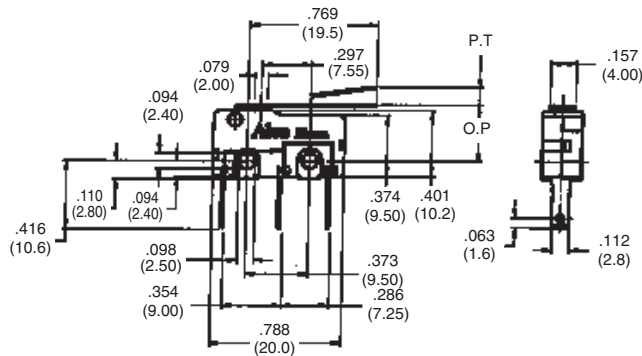
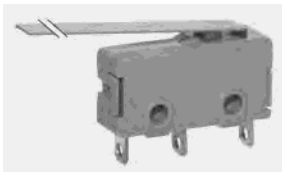
Product Facts

- Available in tab, PCB or solder terminals
- Lever length to reduce actuation force and increase travel

| Terminal Style | AMP | Switch Position | Operating Force | Releasing Force | Pre Travel | Operating Position | Over Travel | Movement Differential | Part Number |
|----------------|-----|-----------------|-----------------|-----------------|-------------------|-------------------------|-------------------|-----------------------|-------------|
| TAB | 5 | SPDT | 55g | 3.5g | 2.8 m/m [.110] | 8.8 ±0.8 [.346±.031] | 1.2 m/m [.047] | 0.8 m/m [.031] | 1478600-2 |
| PCB | | | | | | | | | 1478601-2 |
| Solder | | | | | | | | | 1478602-2 |

Subminiature Long Lever

Long Lever



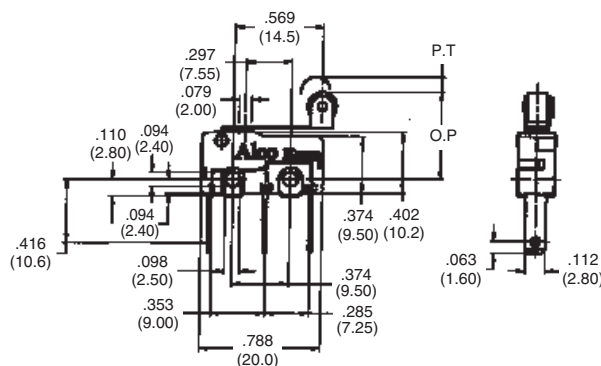
Product Facts

- Available in tab, PCB or solder terminals
- Long lever for increased travel and reduced force

| Terminal Style | AMP | Switch Position | Operating Force | Releasing Force | Pre Travel | Operating Position | Over Travel | Movement Differential | Part Number |
|----------------|-----|-----------------|-----------------|-----------------|-------------------|-------------------------|-------------------|-----------------------|-------------|
| TAB | 5 | SPDT | 45g | 3.0g | 3.5 m/m [.138] | 8.8 ±1.2 [.346±.047] | 1.6 m/m [.063] | 1.0 m/m [.039] | 1478600-3 |
| PCB | | | | | | | | | 1478601-3 |
| Solder | | | | | | | | | 1478602-3 |

Subminiature Roller Lever

Roller Lever



* Refer to Pages L10 for Product Specifications

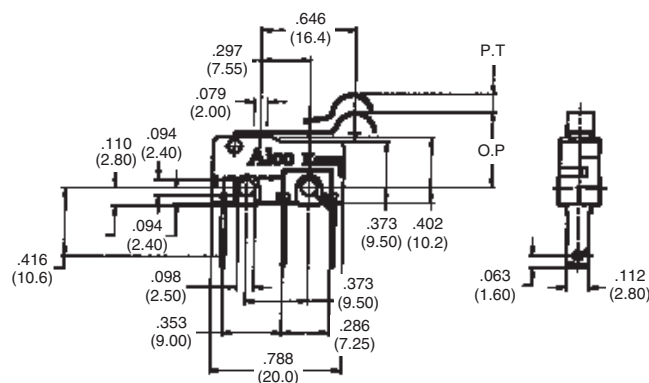
Product Facts

- n Available in tab, PCB or solder terminals
- n Roller lever for increased operating position

| Terminal Style | AMP | Switch Position | Operating Force | Releasing Force | Pre Travel | Operating Position | Over Travel | Movement Differential | Part Number |
|----------------|-----|-----------------|-----------------|-----------------|-------------------|--------------------------|-------------------|-----------------------|-------------|
| TAB | | | | | | | | | 1478600-4 |
| PCB | 5 | SPDT | 60g | 4.0g | 2.5 m/m [.098] | 14.5 ±0.8 [.570±.031] | 0.8 m/m [.031] | 0.5 m/m [.020] | 1478601-4 |
| Solder | | | | | | | | | 1478602-4 |

Subminiature Simulator Lever

Simulator Lever



Product Facts

- n Available in tab, PCB, or solder terminals
- n Simulator lever for operating position between a roller and a lever

| Terminal Style | AMP | Switch Position | Operating Force | Releasing Force | Pre Travel | Operating Position | Over Travel | Movement Differential | Part Number |
|----------------|-----|-----------------|-----------------|-----------------|-------------------|--------------------------|-------------------|-----------------------|-------------|
| TAB | | | | | | | | | 1478600-5 |
| PCB | 5 | SPDT | 40g | 3.0g | 3.6 m/m [.142] | 11.6 ±0.8 [.457±.031] | 0.8 m/m [.031] | 0.6 m/m [.024] | 1478601-5 |
| Solder | | | | | | | | | 1478602-5 |

Engineering Notes



| | |
|---|------------------|
| Solder Process Guide | M2 - M4 |
| Actuator Code Chart | M5 - M6 |
| Glossary | M7 - M9 |
| Worksheet | M10 |
| Alcoswitch to Tyco Electronics Part Number Cross Reference | M11 - M23 |
| Tyco Electronics to Alcoswitch Part Number Cross Reference | M24 - M36 |

Index/Matrixes

Soldering Process Recommendation Guide

The majority of customers utilizing miniature or sub-miniature switches in the industry today have a great concern about the switches' capabilities during their soldering and cleaning cycles. This concern centers around the introduction of contaminants into the switch contact area which could cause the switch to experience various failure modes either immediately or during the life of the switch.

These failure modes can show in a number of manners. The following are just a few examples: high contact resistance, open contacts, low dielectric strength, and high actuation forces causing use-related malfunctions. Since most fluxes become active with the introduction of high temperatures used in all soldering techniques, the switch

must either prevent these fluxes from entering into its contact area or allow cleaning techniques to carry flux particles out. It must be understood that switch contamination can occur during any procedure: from hand soldering to Surface Mount systems for solder reflow.

We at Alcoswitch offer a wide range of switches to handle any soldering operations. However, certain soldering conditions will not apply to all switches. The following conditions and charts should help assist you in the soldering of our switches in your application. If you need additional information, please contact the factory.

SOLDERING TYPES

A. WAVE SOLDERING

Top & Bottom board preheat: 200°F (93°C) for approximately 3 to 4 minutes.

Solder Temperature & Dwell Time: 500°F (260°C) for approximately 3 to 5 seconds.

B. HAND SOLDERING

1. 500°F-600°F (260°C-316°C) Utilizing a controlled 40 watt iron for 3 to 5 seconds maximum.

2. 500°F (260°C) Utilizing a controlled 30 watt iron for 10 seconds maximum.

C. DIP SOLDERING

1. Solder Temperature & Dwell Time: 500°F (260°C) for 3-5 seconds maximum.

2. Mounted on PCB .060" thick - Solder Temperature & Dwell Time: 500°F (260°C) for 10 seconds maximum.

D. SURFACE MOUNT

Tyco Electronics performs testing of their Surface Mount switches in accordance with EIA-364-56, Resistance to Soldering Heat, test procedures 4 (Vapor Phase) and Procedure 5 (Infrared).

CLEANING TYPES

A. Solvent Wash (1.1.1 Trichlorethylene, T.M.S., T.M.C.)

B. Vapor Degreasing

C. Solvent Immersion

D. Aqueous Cleaning

Soldering Process Recommendation Guide

| SWITCH SERIES | SOLDERING TYPE | | | SURFACE MOUNT PROCESS | | CLEANING PROCESSES | | | |
|------------------------------------|----------------|------|------|-----------------------|-------------|--------------------|----------------|-----------------|---------------|
| | Wave | Hand | Dip* | Convection I.R. | Vapor Phase | Solvent Wash | Vapor Degrease | Solvent Immerse | Aqueous Clean |
| AP, AT, AS SERIES | X | X | X | | | X | | | X |
| ALE, ATLE, ATE, APBE | X | X | X | | | X | X | X | X |
| ASE & F | X | X | X | X | X | X | X | X | X |
| COMMAND SERIES, PC | X | X | | | | | | | |
| COMMAND SERIES, LUGS | | X | | | | | | | |
| CST/CSS SERIES | X | X | X | | | X | X | X | X |
| DIP ROT.: DR, RR & RA/C | X | X | X | | | X | X | | |
| DIP ROT: DRDE SERIES | X | X | X | | | X | X | X | X |
| DIPS: AD, AR, AA/C, ATT | X | X | X | X | X | X | X | X | X |
| DIPS: GD | X | X | X | X | | X | X | X | X |
| DIPS: DTS WITH TAPE | X | X | X | | | X | X | X | X |
| DIPS: DTS, DYS W/O TAPE | | X | X | | | X | | | |
| DIPS: S SERIES SIPS | X | X | X | X | X | X | X | X | X |
| DIPS: DPU WITHOUT TAPE | | X | X | | | | | | |
| FSM SERIES (Unsealed) | X | X | | | | | | | |
| FSM SERIES (Sealed) | X | X | | | | X | X | X | X |
| FSM SMT TYPE (Unsealed) | | | | X | | | | | |
| FSM SMT TYPE (Sealed) | | | | X | X | X | X | X | X |
| GEMINI: A SERIES | X | X | X | | | X | | | |
| GEMINI: AE SERIES | X | X | X | | | X | X | X | X |
| GREEN SERIES: ALL MT VERSIONS | | X | X | | | X | X | | |
| GREEN SERIES: ALL MT VERSIONS PC | X | X | X | | | X | | | |
| GREEN SERIES: MPA-6, MPG, MPN, MPE | | X | X | | | X | X | | |
| GREEN SERIES: MTE | | X | X | | | X | X | | |
| MHS SERIES | X | X | X | | | X | X | X | X |
| MLL SERIES | X | X | | X | | X | X | X | X |
| MMS SERIES | | X | X | | | X | X | | |
| MPA-6 SERIES | | X | X | | | X | | | |
| MPB SERIES | | X | X | | | X | X | | |
| MPN SERIES | | X | X | | | X | X | | |
| MPS SERIES | | X | X | | | X | X | | |
| MRD SERIES | X | X | X | X | | X | X | X | X |
| MRJ SERIES | X | X | X | | | X | | | |
| MRJE/MRJB SERIES | X | X | X | | | X | X | X | X |
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Soldering Process Recommendation Guide

| SWITCH SERIES | SOLDERING TYPE | | | SURFACE MOUNT PROCESS | | CLEANING PROCESSES | | | |
|-------------------------------|----------------|------|------|-----------------------|-------------|--------------------|----------------|-----------------|---------------|
| | Wave | Hand | Dip* | Convection I.R. | Vapor Phase | Solvent Wash | Vapor Degrease | Solvent Immerse | Aqueous Clean |
| MSP-3/MSPS SERIES | | X | X | | | | | | |
| MSP-5 SERIES | | X | X | | | X | X | | |
| MSPF SERIES | | X | X | | | X | X | | |
| MSPM SERIES | | X | X | | | X | X | | |
| MSS SERIES | X | X | X | | | X | X | X | X |
| MSSA SERIES | X | X | X | | | X | X | X | X |
| MSSA-01 & 04 | X | X | X | | | X | X | | |
| PUSHWHEELS, CARD EDGE | | X | | | | | | | |
| PUSHWHEELS, PC PINS | X | X | X | | | | | | |
| SDS SERIES | X | X | X | | | X | X | X | X |
| SE SERIES | X | X | X | | | X | X | X | X |
| SL SERIES | X | X | X | | | X | X | | |
| SLS/SLSA SERIES | X | X | X | | | X | X | | |
| SSA/SSJ SERIES | X | | X | | | X | | | |
| SSB SERIES | X | X | X | | | X | X | | |
| STS SERIES | X | X | X | | | X | X | X | X |
| SWK SERIES | | X | | | | | | | |
| TP SERIES: ALL PC | X | | | | | | | | |
| TP SERIES: TP-ES | X | X | X | | | X | X | X | X |
| TP SERIES:TPC, TPD, TPF, TP-N | | X | X | | | X | X | | |
| TRD | X | X | X | | | X | | | |
| TRD W/L.E.D. | | X | X | | | | | | |
| TSS-PC, TSS-RA | X | X | | | | X | | | |
| TSP, TST | X | | X | X | X | X | X | X | X |
| TT ALL PC | X | X | | | | X | | | |
| TT-ES, TTE-ES | X | X | X | | | X | X | X | X |
| TT, TTE, TTN-WIRE LUG | | X | X | | | X | | | |
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Actuation Code Chart Toggles, Rockers and Paddles

| | | | | | | | | | | | | |
|---|--|------|--|----|------|--|--|--|-----|--|------|--|
| | | | | | | | | | A | | NONE | |
| | | | | | | | | | D | | NONE | |
| | | | | | | | | | E | | | |
| 1 | | NONE | | 8 | | | | | F | | NONE | |
| 2 | | NONE | | 9 | NONE | | | | K | | NONE | |
| 3 | | NONE | | 10 | NONE | | | | N | | NONE | |
| 4 | | NONE | | 11 | | | | | P | | | |
| 5 | | | | | | | | | R | | NONE | |
| 6 | | | | 12 | | | | | PA* | | | |
| 7 | | | | | | | | | | | | |

Note: Three throw function achieved with external jumpers installed by customer.

⊙ In (Common)

⊗ Out

Actuation Code Chart Pushbuttons and Slides

The following CODE CHARTS show schematically, the electrical contact closures of a switch relative to the actuator position. All diagrams represent a TOP view of the switch with the ALCO imprint facing and bushing slot, if any, pointing left. Terminal numbers are for reference only and may not appear on switches.

Code numbers are found throughout the catalog alongside part numbers. The same schematic may show either maintained or momentary action in some cases; momentary closures are indicated by the symbol (ON).

PUSHBUTTONS

| | | | | | |
|----|-------------|------------------|----|-------------|---------------|
| 13 | N.C. | MOMENTARY ON | 21 | | MOMENTARY |
| 14 | N.C. | MOMENTARY ON | 22 | | MOM. |
| 15 | DN | MOMENTARY ON | 23 | PUSH-ON | PUSH-OFF |
| 16 | PUSH-ON | PUSH-OFF | 24 | PUSH-ON | PUSH-OFF |
| 17 | PUSH-ON | PUSH-OFF | 25 | PUSH-ON | PUSH-OFF |
| 18 | PUSH-ON | PUSH-OFF | 26 | PUSH-ON | PUSH-OFF |
| 19 | | MOMENTARY | | | |
| 20 | | MOMENTARY | | | |

TP SERIES PUSHBUTTONS

| | | | |
|---------|--|------|--|
| C | | NONE | |
| F FT | | NONE | |
| M | | NONE | |
| R | | NONE | |

TSS SERIES SLIDE SWITCHES

| | | | |
|----|--|------|--|
| A | | NONE | |
| D | | NONE | |
| E | | | |
| K | | NONE | |
| N | | NONE | |
| P | | | |
| PA | | | |

M

Index/Matrices

M6

Glossary

- **Actuation Force (Operating Force):** The force required to change the actuator of a switch from one position to the other. Unit of Measure: Slides - lbs., oz. or grams. Toggles and pushbuttons - oz. Rotary products-torque.
- **Actuator:** A movable part of a switch which causes a change in the electrical configurations of the switch.
Example: Toggle Rocker Slider
 Plunger Paddle Shaft
- **Alternate Action:** See Push-Push.
- **Angle of Throw:** The angle or arc through which an actuator passes during actuation. Typically used to refer to the movement of toggle or rocker actuators. Unit of Measure: Degree.
- **Antistatic:** An antistatic device will withstand a specified potential without conducting between the actuator and any conducting element, usually the terminals or bushing. Unit of Measure: Typical value 15-20 kilovolts DC.
- **Bifurcated Contact:** A wiping movable contact consisting of two spring fingers that grip fixed contacts. Typically found in slide switches. Self-cleaning action. See Wiping Contact.
- **Bobbin Contact:** A movable contact shaped like a thread bobbin that rolls along the stationary contacts. Found only in slide switches.
- **Bounce:** See Contact Bounce.
- **Break-Before-Make (Non-shorting, Break First):** On actuation, the movable contact breaks contact with one fixed contact before making contact with another fixed contact. Contrast with make-before-break. Typical of toggle and pushbutton switches. (BBM)
- **Break First:** See Break-Before-Make.
- **Butt Contact:** A contact mechanism in which the movable contact makes contact with the fixed (stationary) contact without wiping motion between the surfaces. Typical of toggle and pushbutton switches. See Wiping Contact.
- **Capacitive Load:** A load in which the initial current on making (closing) of the contacts is higher than the steady state current on breaking (opening) of the contacts, the current is less than steady state. Current leads voltage in capacitive loads. See Resistive Load, Inductive Load, Power Factor and Inrush.
- **Carrying Current:** The maximum current that can be passed through the already closed contacts of a switch. Contrast with "Contact Rating."
- **Contact (Contact Area):** The metal surfaces that come into physical contact to complete an electrical circuit. These surfaces are found on moveable contacts (see) and terminals (see).
- **Contact Block:** A switching element which is added singly or in groups to an operator (see) to make a complete switch.
- **Contact Bounce (Bounce):** The time during switching in which electrical instability caused by the rebound of the contacts is observed. Unit of Measure: Millisecond.
- **Contact Gap:** The distance between a stationary contact and a moveable contact in the open position.
- **Contact Rating (Switching Rating):** The capacity to switch (connect or interrupt) an electrical load. Unit of Measure: Volts, amps, load characteristic (resistive, inductive, capacitive, power factor). Contrast with non-switching rating.
- **Contact Resistance:** The total resistance of the switch, comprised of the contact interface and terminals. Unit of Measure: Milliohms.
- **Cycles:** The number of times a switch can be actuated from one extreme position to the opposite extreme position and back to the original position.
- **Detent:** A mechanical stop that holds the contacts in a given position after the actuation force is removed or prevents the changing of contact position at less than a specified actuation force.
- **Detent Angle:** The angle or arc between detent positions in rotary switches. Unit of Measure: Degree.
- **Dielectric Strength (Dielectric Withstanding Voltage, DWV, Leakage Resistance, Breakdown Voltage):** The ability of an insulator to withstand a voltage without arcing across its surface. Most often applies to insulator between switch terminals and metal exposed to operator of switch. Unit of Measure: Volts RMS, Volts AC.
- **Dielectric Withstanding Voltage:** See Dielectric Strength.
- **DIP: Dual-in-Line Package** refers to a component with two rows of PC terminals. The terminals are most commonly on a 0.100" pitch with 0.300" between rows.
- **Double-Break Contacts:** A contact mechanism using two sets of contacts to make or break a given circuit. This provides better power handling capacity and longer switch life. Typical of high power industrial switches. See Single-Break Contacts.
- **Dry Circuit (Low Energy, Logic Level):** An application in which power levels do not cause arcing, melting or softening of contacts. Typically requires gold plated contacts for reliable switch operation. Typical Definition: 0.4VA max. @ 20 VDC or peak AC.
- **DWV:** See Dielectric Strength.
- **Electrical Life:** The number of operations at a given electrical load that does not result in a degradation of any electrical or mechanical parameter beyond the standard set by the applicable end-of-life criteria. Unit of Measure: Cycles (on-off operations) (rotations).

Glossary

- **End of Life Criteria:** Those specifications that a switch must meet at the end of its specified electrical life. Typically contact resistance and/or heat rise of contacts at full rated load at end of life.
- **Environmental Seal:** A seal that totally encapsulates the switch or relay providing a specified level of protection against intrusion of solids, liquids or gases into the body of the device.
- **Fixed Contact (Stationary or Statis Contact):** The non-moving contact. Typically integral to the end of the terminal inside the switch body.
- **Flux:** A material added during soldering to the metal surfaces which on heating prevents oxidation and aids the flowing of the solder.
- **Gas-Tight Contact:** A contact interface (movable to fixed contacts) in which the forces holding the contacts together are high enough to prevent gases from migrating between the members. This prevents static oxidation of the contact and subsequent intermittencies of high contact resistance. Typical forces are 280,000 PSI and higher.
- **Gold Flash:** A plating of gold typically less than 10 microinches (millionths) thick. Used only as a barrier to oxidation or corrosion of terminals to maintain solderability.
- **Heat Rise:** An indirect measurement of contact resistance used by rating agencies. The temperature rise over ambient of a contact set carrying a prescribed current is measured to determine whether it falls within safe limits.
- **Inductive Load:** A load in which the initial current on making (closing) of the contacts is lower than the steady state. On breaking (opening) of the contacts, the current is greater than the steady state. Current lags voltage in inductive loads. Motors are the most common inductive load. See Resistive Load, Capacitive Load, Power Factor.
- **Inrush:** A transitory high-level of current through a contact set on making (closing). A characteristic of capacitive and some resistive loads. The inrush currents can be large and long enough to cause severe degradation of the contacts. See Resistive Load, Capacitive Load, Power Factor.
- **Insert Molding:** In switches and relays used to refer to terminations that are placed in the mold so that plastic is molded around the terminations. The chief benefit is an inherent seal against the intrusion of flux into the body of the device. Therefore no epoxy terminal seal is required.
- **Insulation Resistance:** The resistance between insulated parts measured at a specified DC voltage. Unit of Measure: Megohm.
- **IP:** An industrial specification used in Europe (and worldwide) to indicate the degree of protection provided by a component against accidental contact, penetration of solids or liquids into or through the component. See NEMA.
- **Leakage Barrier:** A ridge or web molded into a switch housing between terminals or contacts to increase the surface distance between them.
- **Leakage Resistance:** Dielectric Strength.
- **Life:** See Electrical Life: Mechanical Life.
- **Logic Level:** Refers to power levels typical of solid state electronic circuits (TTL, CMOS, etc.). For switch selection see Dry Circuit.
- **Low Energy:** See Dry Circuit.
- **Maintained:** A position (throw) of a switch which remains unchanged when actuation force is removed from switch actuator. Contrast with Momentary.
- **Make-Before-Break (Shorting Contact, Make First):** Movable contact makes the next circuit before breaking the first circuit. Typically found in slide switches. Contrast with Break-Before-Make (MBB).
- **Make First:** See Make-Before-Break.
- **Mechanical Life:** The number of operations of a switch without electrical load that does not result in a degradation of parameters beyond the standard set by the applicable end-of-life criteria.
- **Momentary (Spring Return):** A momentary switch position (throw) is held only for duration of force applied to the switch actuator.
- **Movable Contact (Dynamic Contact):** The contact moved by the switch actuator into and away from contact with a fixed contact thus forming the electrical circuits possible for a given device.
- **N.C.:** See Normally Closed.
- **NEMA:** National Electrical Manufacturers Association. A US Standards setting group for switch products most often applied to switches mounted in various enclosures offering specified degrees of protection against intrusion of liquids, dust, corrosive elements, etc. NEMA ratings are common in industrial or outdoor applications. See IP.
- **NO:** See Normally Open.
- **Non-shorting:** See Break-Before-Make.
- **Non-switching Rating:** The power carrying capacity of a switch after contact closure and end of contact bounce. Typically far higher than the contact rating (switching rating) of a switch. Unit of Measure: Volts and Amps.
- **Normally Closed (NC):** Normally closed contacts are closed when switch actuator is in its unactuated position (e.g., the plunger is in the resting position in the case of a pushbutton switch).
- **Normally Open (NO):** Normally open contacts are open when the switch actuator is in its unactuated or resting position.

Glossary

- **Oil-tight:** A generic term for a panel seal (see) commonly used in industrial settings. Defined by NEMA (see) and IP (see) standards.
- **Operating Force:** See Actuation Force.
- **Operating Temperature:** The range of temperature within which the device may be used. Unit of Measure: Degrees celsius or fahrenheit (C or F).
- **Operator:** A panel mounted mechanical device (pushbutton, selector, keylock, etc.) without contacts to which one or more contact blocks (see) may be added to make a complete switch.
- **Overtravel:** The distance the actuator may move between initial contact position and the extreme mechanical position of the actuator without damage to the switch. See travel. Pretravel. Unit of Measure: Inch. Degree.
- **Panel Seal:** A panel seal provides a defined level of protection against penetration of liquids through which the switch and switch-to-panel interface to the rear of a panel. Unit of Measure: Inches/ft. of water.
- **Pole:** The number of separate circuits that can be active through a switch at any one time. A single pole switch allows one closed circuit at a time. A double pole switch allows two closed circuits, etc.
- **Power Factor (PF):** A measure of the inductive or capacitive character of an electrical load. Unit of Measure: 0 to 1 (e.g. 0.75)
- **Process Seal:** A seal that prevents damage to or contamination of the switch during the specified mechanical process. See wave solderable. Surface Movable.
- **Push-On/Push-Off:** See Push-Push.
- **Push-Push (Alternative Action, Push-On/Push-Off):** A pushbutton switch style in which the electrical state of the switch is maintained between actuations of the plunger.
- **Quick-Connect Terminals:** Flat tab or blade style terminals designed to accept push-on female wire connectors (instead of soldering). The most popular sizes are: 0.250", 0.110" wide.
- **Resistive load:** A load in which the current and voltage are in phase. See Capacitive Load, Inductive Load, Power Factor, Inrush.
- **Shorting Contact:** See Make-Before-Break.
- **Single Break Contacts:** A contact mechanism using one set of contacts to make or break a given circuit. Typical of electronic or low power switches. See Double-Break Contacts.
- **Splashproof:** See panel Seal.
- **Spring Return:** See Momentary.
- **Storage Temperature:** The range of temperature within which the device may be stored. Typically this is a wider range than operating temperature. Unit of Measure: Degrees celsius or fahrenheit (C or F).
- **Surface Mount Devices:** Components that are compatible with surface mount PC board technology. Holes are not used for component mounting. Component leads are soldered to pads on the surface of the PC boards. For switches typically defined by surface mount terminations (e.g., J-bend, L-bend, butt, etc.) and compatibility with surface mount soldering (e.g., vapor phase reflow, infrared, etc.) and cleaning processes.
- **Tactile Feel (Feedback):** A mechanical signal (typically a "snap" or "click") that indicates contact closure to the operator.
- **Terminal:** The metal portion of the switch, exterior to the body, that is used to connect the switch to an electrical circuit. Examples: PC, wire lug, Turret, quick-connect, wire-wrap, etc.
- **Throws:** Number of circuits that can be controlled by any one pole of a switch. Example: In a single pole — double throw (SPDT) switch, only one circuit may be completed at a time. However, there are two possible circuits (throws) that can be made.
- **Travel:** The total distance the actuator moves to change electrical position. See Pretravel. Overtravel. Unit of Measure: Inches, degrees.
- **Washable:** Applied to PC board mounted devices indicating compatibility with cleaning processes used after soldering. No degradation of electrical or mechanical parameters occurs.
- **Wave Solderable:** Indicates the device is suitable for the wave soldering and cleaning processes as supplied. See Process Seal.
- **Wiping Contact:** A contact mechanism in which the movable contact with the fixed contact with a wiping motion. Typical to slide and rotary switches.

Alcoswitch & Tyco Electronics Power Tool Switches Application Worksheet**Required Information****Electrical Considerations:**

Voltage of Applications: _____ Current of Application: _____

Circuitry Configuration: Number of Poles: _____ Number of Throws: _____

Number of Operations anticipated: _____

Agency Approvals or Listings Desired: _____

Mechanical ConsiderationsType of Switch (Actuator Type): Toggle Pushbutton Rotary Trigger Other

Switch Function: (On/Off/On) _____ On/Off _____ Momentary: _____

Termination: Thru-Hole (PC) Surface Mount Wire Lug Quick Connect Other

Sealing Contamination Requirements: _____

Product Processing ConsiderationsAnticipated Soldering Process: Hand Wave SMT Other**Required Information For Power Tool Switches Only****Output Characteristics:**

Variable Speed, Two Speed, On/Off, etc.: _____ Reversing/Non-Reversing: _____

Lock-on, Lock-off, or Neither: _____

Hook-up wire size and configuration (i.e. stranded/solder tinned, fused, terminated, etc.) and retention force requirements (how many pounds pull force and what directions required): _____

Optional Information**Electrical Considerations:**

Contact Resistance Requirements: Initial: _____ After Life Cycles: _____

Electrostatic Discharge: (E.S.D.) Requirements: _____

Contact Timing: Shorting (Make-Before-Break) Non Shorting (Break-Before-Make)

Other Electrical Considerations: _____

Mechanical Considerations

Actuation Force Requirements: _____

Actuator Travel Distance or Degrees of Throw: _____

Special Plating Requirements: Flammability Rating: _____ Oxygen Index: _____

Special Material Requirements: % Solder Coverage: _____

Marking Required: _____

Desired Product Color Options: _____

Other Mechanical Considerations: _____

Environmental Considerations

Operating Temperature Range: _____

Storage Temperature Range: _____

Chemical Resistance Requirements: _____

Other Environmental Considerations: _____

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