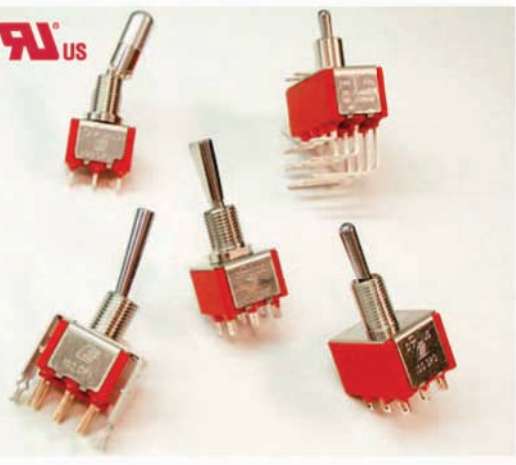


# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

US



### SPECIFICATIONS

|                        |   |
|------------------------|---|
| Contact Rating:        | See contact material options  |
| Life Expectancy:       | 40,000 make-and-break cycles  |
| Contact Resistance:    | 10 mΩ max. typical initial @ 2-4 VDC<br>100 mA for both silver and gold plated contacts |
| Insulation Resistance: | 1,000 MΩ min.   |
| Dielectric Strength:   | 1,000 V RMS @ sea level   |
| Operating Temperature: | -30° C to 85° C   |

### MATERIALS

|                       |                                    |
|-----------------------|------------------------------------|
| Case:                 | Diallyl Phthalate (DAP)            |
| Toggle Handle:        | Brass, chrome plated               |
| Switch Support:       | Brass or steel, tin plated         |
| Bushing:              | Brass, nickel plated               |
| Housing:              | Stainless steel                    |
| Contacts / Terminals: | Silver or gold plated copper alloy |

### FEATURES & BENEFITS

- ▶ Up to 4 poles available
- ▶ Variety of switching functions
- ▶ Miniature
- ▶ Multiple actuator & bushing options

### APPLICATIONS/MARKETS

- ▶ Telecommunications
- ▶ Instrumentation
- ▶ Networking
- ▶ Medical equipment

### HOW TO ORDER

| SERIES | MODEL NO.  | ACTUATOR  | BUSHING   | TERMINATION  | CONTACT MATERIAL       | SEAL  | HARDWARE     |
|--------|--|---|---|--|------------------------|---|--------------|
| 100    | □ □ □  | □ □   | □ □ □   | □ □ □ □  | □                      | E   | □            |
|        | SP1<br>SP2*<br>SP3<br>SP4*<br>SP5*<br>DP1<br>DP2*<br>DP3<br>DP4*<br>DP5*<br>DP6<br>DP7*<br>DP8*<br>3P1<br>3P2*<br>3P3<br>3P4*<br>3P5*<br>4P1<br>4P2*<br>4P3<br>4P4*<br>4P5*<br>4P6<br>4P7*<br>4P8* | T1†<br>T2<br>T3<br>T4<br>T5<br>T6<br>T7<br>T8<br>T9<br>K1<br>K2<br><br>† Optional<br>Toggle Cap<br>(T1 Only):<br>T100-1 = White<br>T100-2 = Black | B1<br>B2<br>B3<br>B4<br>B5<br>B6<br>B8<br>B9<br>B11<br>B12<br>B13<br>B15<br>B16<br>B25**<br>B26** | M1<br>M2<br>M3<br>M5<br>M6<br>M61<br>M7<br>M71<br>VS2<br>VS3<br>VS5*<br>M64*<br>VS21*<br>VS31* | Q = Silver<br>R = Gold | E = Epoxy<br>Sealed at<br>Base of<br>Terminal | H = Hardware |

Example Ordering Number  
100-SP1-T4-B2-M1-R-E

Notes: \* Not available with the K1 and K2 actuator options.

\*\* Available only with the K1 and K2 actuator options.

Specifications subject to change without notice.



### SPDT



SCHEMATIC



| Model No.   | POS 1 | POS 2 | POS 3 |
|-------------|-------|-------|-------|
| SP-1        | ON    | NONE  | ON    |
| SP-2        | ON    | NONE  | (ON)  |
| SP-3        | ON    | OFF   | ON    |
| SP-4        | (ON)  | OFF   | (ON)  |
| SP-5        | ON    | OFF   | (ON)  |
| Term. Comm. | 2-3   | OPEN  | 2-1   |

( ) = Momentary

### DPDT



SCHEMATIC



| Model No.   | POS 1    | POS 2 | POS 3    |
|-------------|----------|-------|----------|
| DP-1        | ON       | NONE  | ON       |
| DP-2        | ON       | NONE  | (ON)     |
| DP-3        | ON       | OFF   | ON       |
| DP-4        | (ON)     | OFF   | (ON)     |
| DP-5        | ON       | OFF   | (ON)     |
| DP-7        | ON       | ON    | (ON)     |
| DP-8        | (ON)     | ON    | (ON)     |
| Term. Comm. | 2-3, 5-6 | OPEN  | 2-1, 5-4 |

|             |          |          |          |
|-------------|----------|----------|----------|
| DP-6        | ON       | ON       | ON       |
| Term. Comm. | 2-3, 5-6 | 2-3, 5-4 | 2-1, 5-4 |

( ) = Momentary

### 3PDT



SCHEMATIC



| Model No.   | POS 1           | POS 2 | POS 3           |
|-------------|-----------------|-------|-----------------|
| 3P-1        | ON              | NONE  | ON              |
| 3P-2        | ON              | NONE  | (ON)            |
| 3P-3        | ON              | OFF   | ON              |
| 3P-4        | (ON)            | OFF   | (ON)            |
| 3P-5        | ON              | OFF   | (ON)            |
| Term. Comm. | 2-3, 5-6<br>8-9 | OPEN  | 2-1, 5-4<br>8-7 |

( ) = Momentary

### 4PDT



SCHEMATIC



| Model No.   | POS 1                    | POS 2 | POS 3                    |
|-------------|--------------------------|-------|--------------------------|
| 4P-1        | ON                       | NONE  | ON                       |
| 4P-2        | ON                       | NONE  | (ON)                     |
| 4P-3        | ON                       | OFF   | ON                       |
| 4P-4        | (ON)                     | OFF   | (ON)                     |
| 4P-5        | ON                       | OFF   | (ON)                     |
| 4P-7        | ON                       | ON    | (ON)                     |
| 4P-8        | (ON)                     | ON    | (ON)                     |
| Term. Comm. | 2-3, 5-6<br>8-9<br>11-12 | OPEN  | 2-1, 5-4<br>8-7<br>11-10 |

|             |                          |                          |                          |
|-------------|--------------------------|--------------------------|--------------------------|
| 4P-6        | ON                       | ON                       | ON                       |
| Term. Comm. | 2-3, 5-6<br>8-9<br>11-12 | 2-3, 5-4<br>8-9<br>11-10 | 2-1, 5-4<br>8-7<br>11-10 |

( ) = Momentary

TACT SWITCHES

NAVIGATION SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

ROCKER SWITCHES

SLIDE SWITCHES

SNAP-ACTION SWITCHES

DIP SWITCHES

KEYLOCK SWITCHES

ROTARY SWITCHES

DETECTOR SWITCHES

CAP OPTIONS

# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

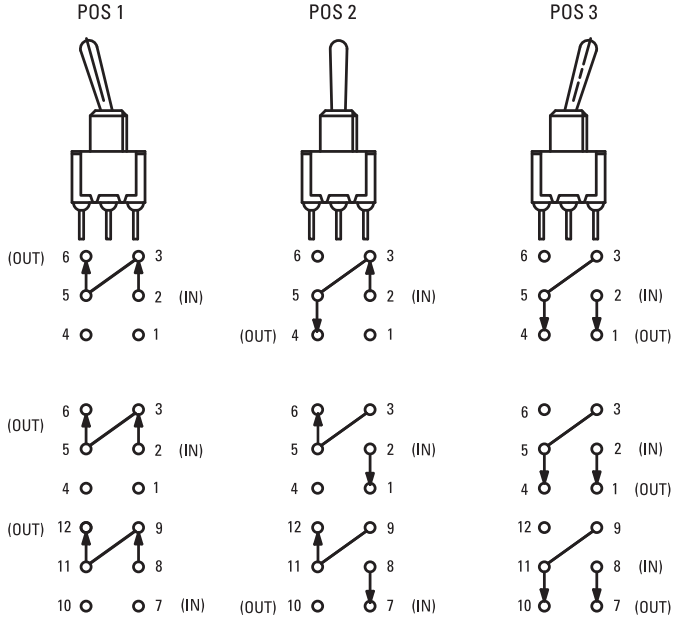
### 3 - WAY WIRING DIAGRAM SCHEMATICS



Bottom View  
or DP-6, DP-7, DP-8



Bottom View  
for 4P-6, 4P-7, 4P-8

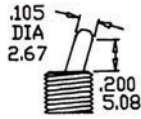


### ACTUATOR OPTIONS

T1\* STANDARD



T2\*



T3\*



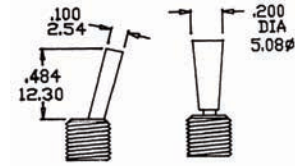
T4\*



T5\*



T6 FLATTED WITH BUILT IN ANTIROTATION



Use with B11, B12, B15, B16 only

T7



T8



T9\* PLASTIC BLACK



K1



K2



\*Add .070 (1.78) for B3, B4 bushings, subtract .020 (0.51) for B6 bushing.



### BUSHING OPTIONS

**B1 THD STD**

**B2 NON-THD**



**B3 THD STD**

**B4 NON-THD**



B4 is standard for M6, M7 and VS termination options.

**B5 HIGH TORQUE**



**B6 HIGH TORQUE**



**B8 METRIC THD**



**B9 SPLASH PROOF**



**B13**



Use with T7 and T8 actuators only

**B11 THD STD**

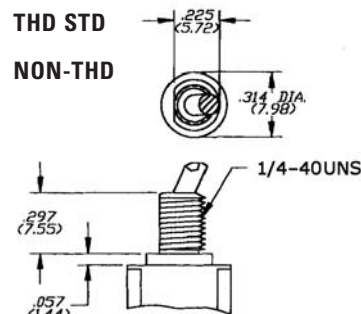
**B12 NON-THD**



Use with T6 actuator only

**B15 THD STD**

**B16 NON-THD**



Use with T6 actuator only

**B25**



**B26**



# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

### BUSHING OPTIONS - PANEL MOUNTING



### TERMINATION OPTIONS

#### M2

##### SPDT



#### M1

##### SOLDER LUG



#### M3

##### QUICK CONNECT

Mating Quick Connector  
Amp P/N 61454-1



#### M2

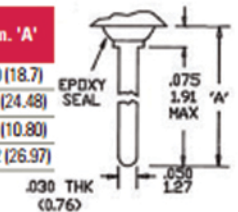
##### DPDT



#### M5

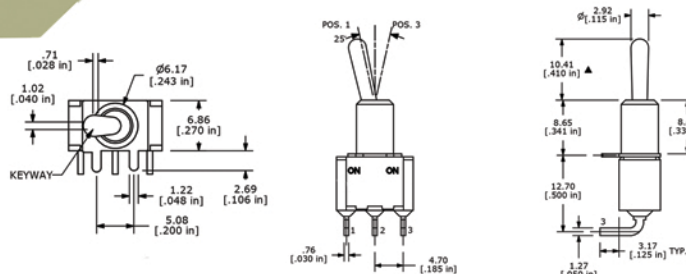
##### WIRE WRAP

| Option Code | Dim. 'A'      |
|-------------|---------------|
| M51         | .750 (18.7)   |
| M52         | .964 (24.48)  |
| M53         | .425 (10.80)  |
| M54         | 1.062 (26.97) |



#### M6

##### SPDT





### M6

DPDT



### M7

SPDT



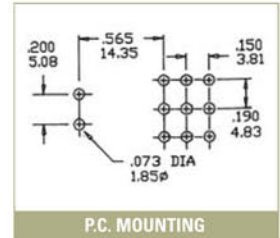
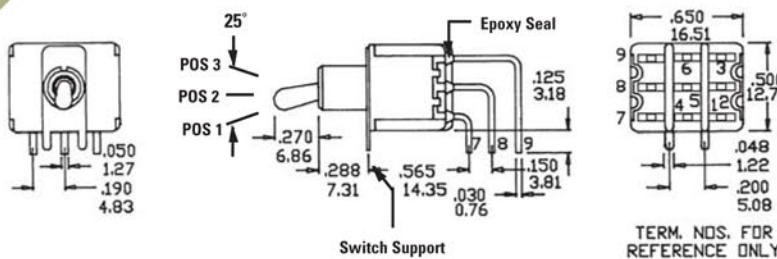
### M7

DPDT



### M7

3PDT



### M7

4PDT



# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

TACT SWITCHES

NAVIGATION SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

ROCKER SWITCHES

SLIDE SWITCHES

SNAP-ACTION SWITCHES

DIP SWITCHES

KEYLOCK SWITCHES

ROTARY SWITCHES

DETECTOR SWITCHES

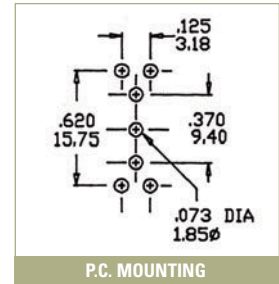
CAP OPTIONS

### VS2-VS3

SPDT



| Option Code | Dim. 'A'     |
|-------------|--------------|
| VS2         | .460 (11.68) |
| VS3         | .630 (16.00) |

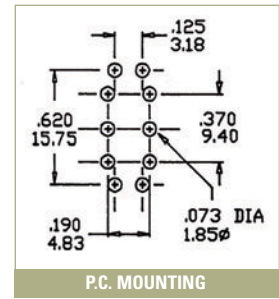


### VS2-VS3

DPDT

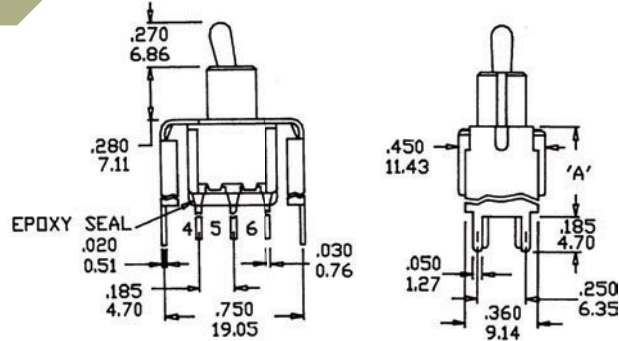


| Option Code | Dim. 'A'     |
|-------------|--------------|
| VS2         | .460 (11.68) |
| VS3         | .630 (16.00) |

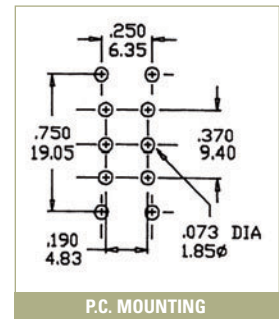


### VS5

DPDT

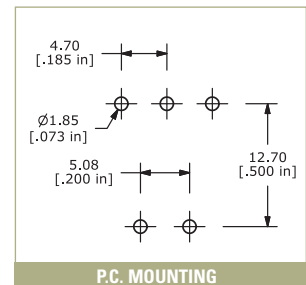


| Option Code | Dim. 'A'     |
|-------------|--------------|
| VS5         | .630 (16.00) |



### M61

SPDT





### M61

DPDT



### M71

SPDT



### M64

SPDT



TACT SWITCHES  
 NAVIGATION SWITCHES  
 PUSHBUTTON SWITCHES  
 TOGGLE SWITCHES  
 ROCKER SWITCHES  
 SLIDE SWITCHES  
 SNAP-ACTION SWITCHES  
 DIP SWITCHES  
 KEYLOCK SWITCHES  
 ROTARY SWITCHES  
 DETECTOR SWITCHES  
 CAP OPTIONS



# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

### VS21-VS31

SPDT



| Option Code | Dim. 'A'     |
|-------------|--------------|
| VS2         | .460 (11.68) |
| VS3         | .630 (16.00) |



P.C. MOUNTING

### VS21-VS31

DPDT



| Option Code | Dim. 'A'     |
|-------------|--------------|
| VS2         | .460 (11.68) |
| VS3         | .630 (16.00) |



P.C. MOUNTING

### OPTIONAL TOGGLE CAP



Use with T1  
T100-1 WHITE  
T100-2 BLACK



### CONTACT MATERIAL OPTIONS

**Q**

|                 |  |
|-----------------|--|
| Fixed Terminal: | Silver plated over copper alloy  |
| Moving Contact: | Silver plated over copper alloy  |
| Rating:         | 5 Amps with resistive load @ 120VAC or 28VDC;<br>2 Amps with resistive load @ 250VAC |

**R**

|                 |  |
|-----------------|--|
| Fixed Terminal: | Copper alloy with gold plate over nickel plate |
| Moving Contact: | Copper alloy with gold plate over nickel plate |
| Rating:         | 0.4 Volt-Amps (VA) max. @ 20V max. (AC or DC)  |



**HARDWARE**

**HDW2 1/4 IN. NUTS**



Supplied standard with B1, B3, B5, B6 and B9 options

**HDW3 BLIND DRESSNUT**



**HDW6 METRIC NUT**



Supplied standard with B8 metric bushing

**HDW11 LOCK WASHER**



Supplied standard with B1/B3 bushing

**Optional Rubber Hood Sealing E1**



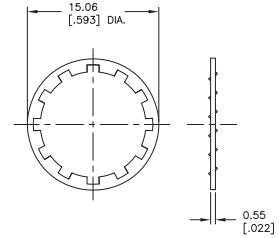
E1= Inch (Std.) for actuator T1, T2 and bushings B1, B3, B5, B6 Optional rubber boot sealing

**HDW4 15/32 IN. NUTS**



Supplied standard with B13 bushing

**HDW12 LOCK WASHER**



Supplied standard with B13 bushing

**HDW15 LOCKING RING**



Supplied standard

**HDW16 LOCKING RING**



Supplied with B5 bushing

**HDW17 LOCKING RING**



Supplied with B13 bushing

TACT SWITCHES

NAVIGATION SWITCHES

PUSHBUTTON SWITCHES

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ROTARY SWITCHES

DETECTOR SWITCHES

CAP OPTIONS

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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