NEW

PNP Series
Sealed Pushbutton Switch

Features/Benefits

- *Snap-Action provides positive tactile feedback*
- *IP68 sealed to endure harsh environments*
- *1,000,000 life cycle*
- *Up to 5A resistive load*
- *Multiple housing styles*
- *Various termination types and wirelead options are also available*
- *RoHS compliant*

Typical Applications

- *Control Grips*
- *Off-Road Panels*
- *Heavy Equipment*
- *Industrial Instruments*
- *Lifts*
- *Conveyor Controls*

Specifications

FUNCTION: SPST, SPDT Double Break (Form Z) Momentary
CONTACT ARRANGEMENT: N.O. and N.C.
MOUNTING TYPE: Threaded front mount
TORQUE SPEC FOR THREADED BODY: Do not exceed 10 in-lbs (1.35 N-m)

Mechanical

OPERATING LIFE: 1,000,000 cycles
TOTAL TRAVEL: 2 mm max.
OPERATING POINT 0.9 ± 0.25 mm
OVER TRAVEL: 0.25 mm min.
OPERATING FORCE: 3N ± 1.5N
8N ± 1.5N
VIBRATION: 10-500 Hz 10g Max
SHOCK: 50g 11ms sawtooth wave

Electrical

CONTACT RATING:
Option "Q" Silver
5A/32 VDC resistive (25,000 cycles)
3A/32 VDC resistive (25,000 cycles)
Option "G" Gold over Silver
10mA/5 VDC resistive (1,000,000 cycles)
DIELECTRIC STRENGTH: 1000 V AC for 1 min.
INSULATION RESISTANCE: 1 G Ω @ 500 VDC
INITIAL CONTACT RESISTANCE 50 mΩ max (without wire leads)
BOUNCE TIME: <5 ms

Materials

HOUSING: PBT/PC
BASE: PBT
CAP: PBT
ACTUATOR: PBT
INTERNAL SEAL: Silicone rubber
TERMINALS: Copper with silver nickel inlay, silver plating
MOVABLE CONTACT: Copper alloy, gold over silver plating
TERMINAL SEAL: Epoxy

Operating Environment

OPERATING TEMPERATURE: -40°C to +85°C
ESD PROTECTION: 15KV min.
SEALING: IP68

NOTE: Specifications and materials listed above are for switches with standard options.
For information on specific and custom switches, please contact Customer Service.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box.

P N P [ ] [ ] [ ] [ ] 2 [ ] [ ] [ ] E

Designation
PNP PNP Series

Operating Force
3 3 Newtons
8 8 Newtons

Actuator Style
S Standard
E Extended (D housing style only)
N None

Actuator Color *
0 No Cap
1 White
2 Black (STD)
3 Red
4 Orange
5 Yellow
6 Green
7 Blue
9 Gray

Housing Style
T Standard threaded mount
D Dome bezel

Housing Color
2 Black (STD)

Circuit
C SPDT - Double Break
W SPST NC - Double Break
Y SPST NO - Double Break

Termination
02 PC Pin (G contact material only)
03 Solder Lug (STD)
W2 2 x 12" 22 AWG UL1569 wire (overmolded)
W3 3 x 12" 22 AWG UL1569 wire (overmolded)
W4 4 x 12" 22 AWG UL1569 wire (overmolded)

Contact Material
Q Silver (STD)
G Gold over silver

Terminal Seal
E Epoxy
All models are epoxy sealed

* Additional colors available, please contact Customer Service

Third Angle Projection

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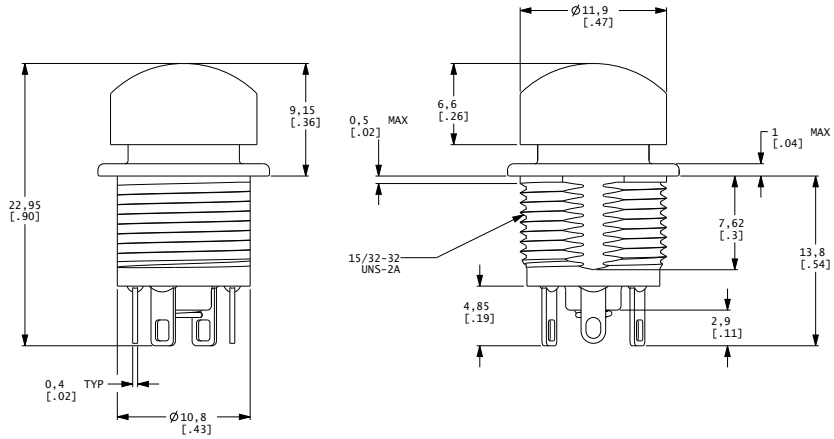
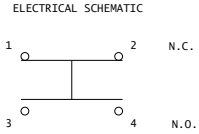
NEW

STANDARD VIEW





OPERATING FORCE

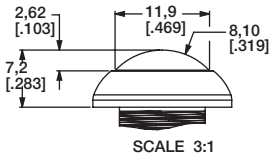
OPTION CODE	OPERATING FORCE
3	3 N
8	8 N

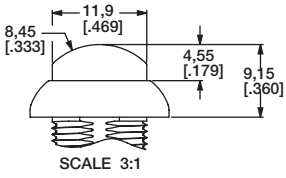
ACTUATOR STYLE

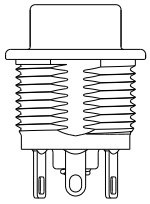
S STANDARD

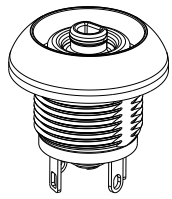
E EXTENDED (D HOUSING STYLE ONLY)

N NO CAP





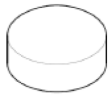


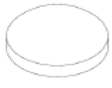


ACTUATOR COLOR

OPTION CODE	ACTUATOR COLOR
0	No color
1	White
2	Black
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
9	Gray

* Cap may be ordered separately

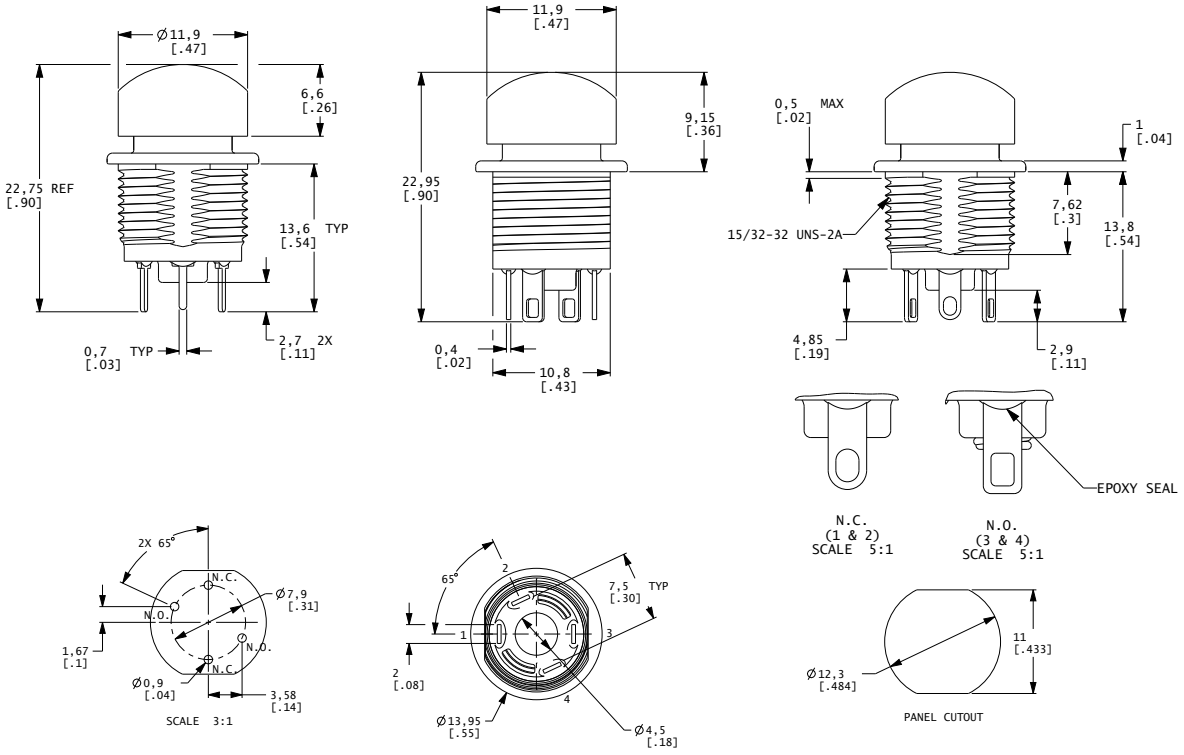




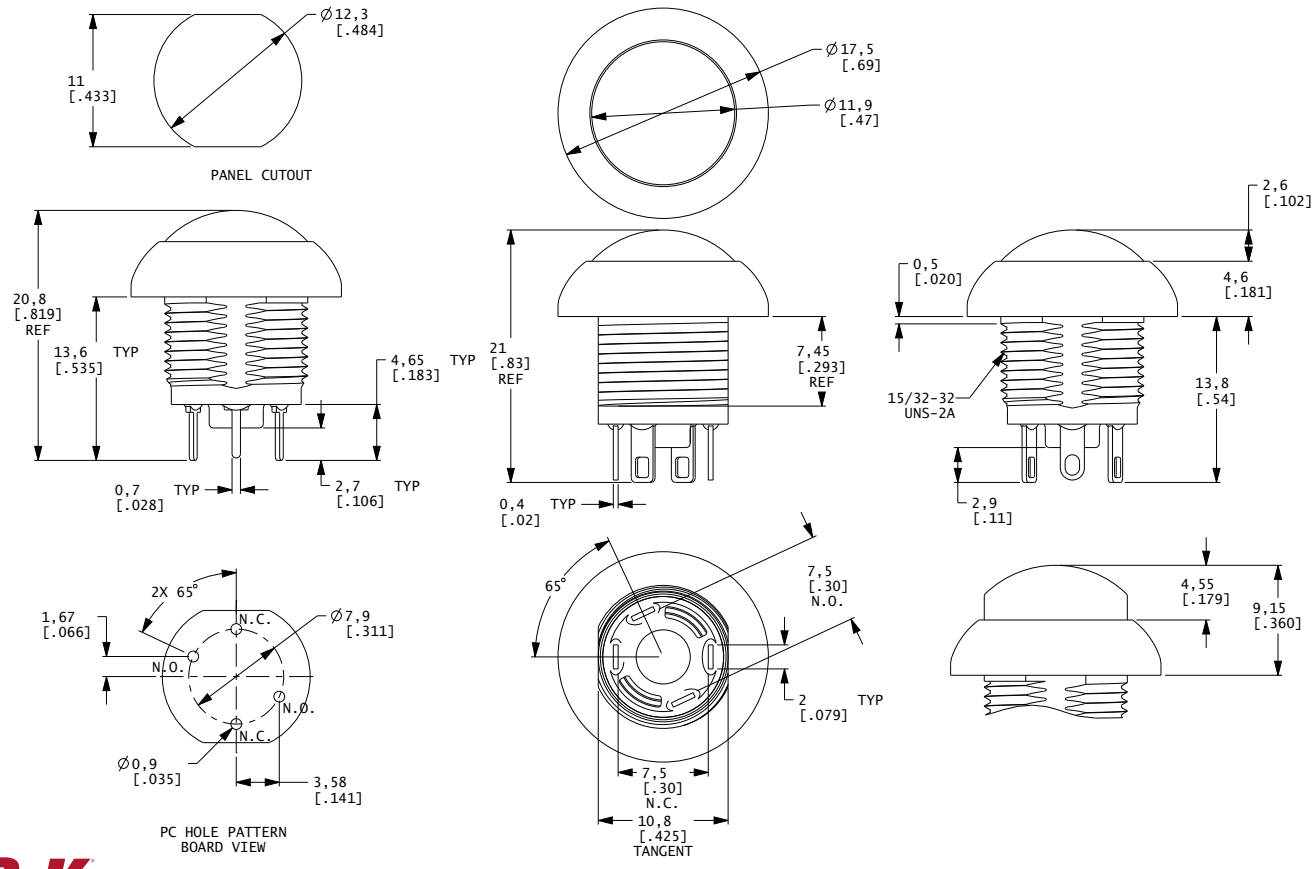
PART NUMBER	COLOR
285E01000	White
285E02000	Black
285E03000	Red
285E04000	Orange
285E05000	Yellow
285E06000	Green
285E07000	Blue
285E09000	Gray
824D01000	White
824D02000	Black
824D03000	Red
824D04000	Orange
824D05000	Yellow
824D06000	Green
824D07000	Blue
824D09000	Gray

HOUSING STYLE

T STANDARD THREADED MOUNT



D DOME BEZEL



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NEW

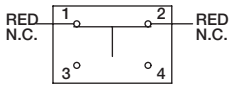
HOUSING COLOR

OPTION CODE	COLOR
2	Black (STD)

CIRCUIT

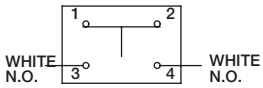
W SPST NC - Double Break

ELECTRICAL SCHEMATIC
2 WIRES



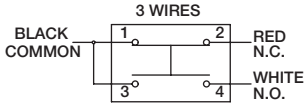
Y SPST NO - Double Break

ELECTRICAL SCHEMATIC
2 WIRES



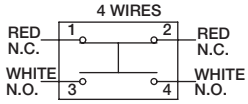
C SPDT - Double Break

ELECTRICAL SCHEMATIC
3 WIRES



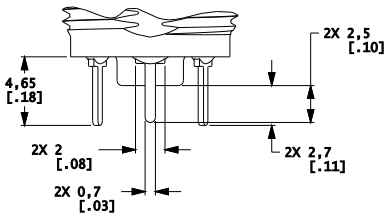
C SPDT - Double Break

ELECTRICAL SCHEMATIC
4 WIRES

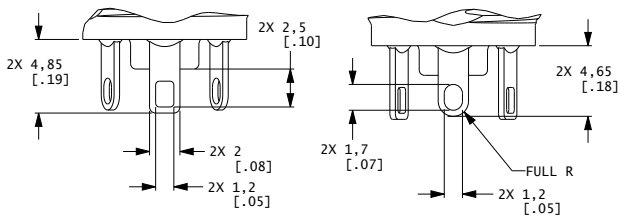


TERMINATION

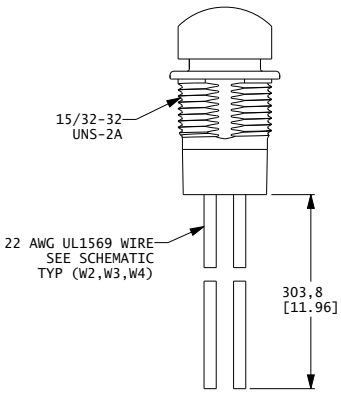
02 PC PIN



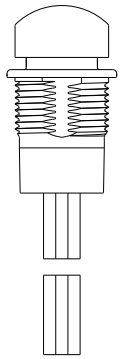
03 SOLDER LUG (STD)



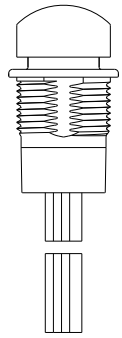
W2 2 x 12" 22 AWG UL1569 wire (overmolded)



W3 3 x 12" 22 AWG UL1569 wire (overmolded)



W4 4 x 12" 22 AWG UL1569 wire (overmolded)



CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL
Q	Silver (STD)
G	Gold over silver

TERMINAL SEAL

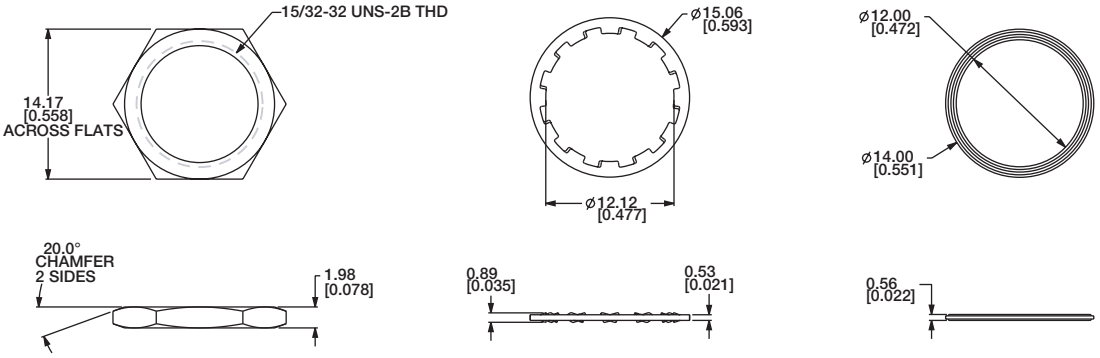
E EPOXY
All models are epoxy sealed

HARDWARE

HEX NUT
707100201 Nickel-plated

LOCKWASHER
700302202

PANEL GASKET
851D02000



Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
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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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