PNP Series Sealed Pushbutton Switches





Specifications

Function	SPST, SPDT Double Break (Form Z) Momentary
Contact Arrangement	N.O. and N.C.
Mounting Type	Threaded front mount

Notes:

Maximum torque for threated body: Do not exceed 10 in-lbs (1.35 N-m)

Mechanical Characteristics

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	$3N \pm 1.5N$ $8N \pm 1.5N$
Vibration	10-500 Hz 10g Max.
Shock	50g 11ms sawtooth wave

Electrical Characteristics

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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	1,000 V AC for 1 min.
Insulation Resistance	1 G Ω @ 500 V DC
Initial Contact Resistance	50 m Ω max (without wire leads)
Bounce Time	< 5 ms
Operating Temperature	-40°C to 85°C
ESD Protection	15 KV min.
Sealing	IP68

Description

The PNP series sealed pushbutton switch is engineered to meet the needs of applications for harsh environments – such as industrial, off-road, heavy equipment and lift products – where the switches are used repeatedly and are exposed to dust, water or other typically damaging elements. PNP switches are IP68 sealed and RoHS compliant, feature a long lifecycle (1,000,000 uses) and are available in a variety of housing styles with up to a 5A resistive load.

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

Applications

- Control GripsOff-Road Panels
- Heavy Equipment
- Industrial Instruments
- Lifts
- Conveyor Controls

Materials

Housing	PBT/PC
Base	
Сар	PBT
Actuator	
Internal Seal	Silicone rubber
Terminals	Copper with silver nickel inlay, silver plating
Movable Contact	Copper alloy, gold over silver plating
Terminal Seal	Ероху

Notes:

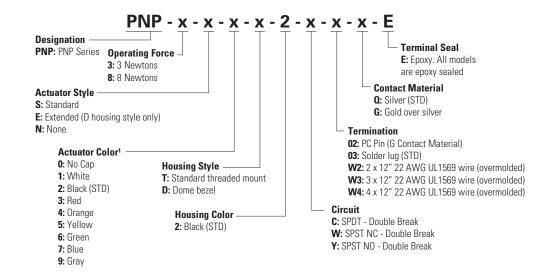
Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, please contact Customer Service.





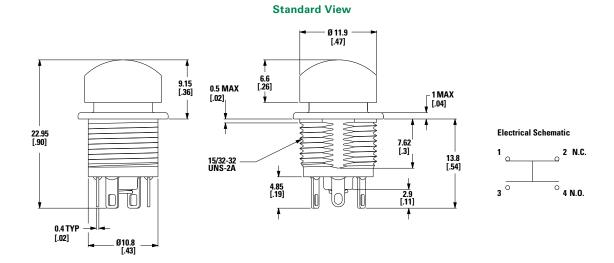
Ordering Number

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



Notes:

1. Please contact Customer Service for additional colors.



Operating Force

Option Code	Operating Force
3	3 N
8	8 N



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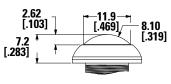


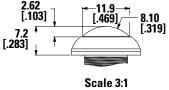
Actuator Style

S Standard

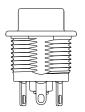
E Extended (D Housing Style Only)

N No Cap





11.9 [.469] 8.45 [.333] 4.55[.179] 9.15 [.360] Scale 3:1





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



Part Number	Color
285E01000	White
285E02000	Black
285E03000	Red
285E04000	Orange
285E05000	Yellow
285E06000	Green
285E07000	Blue
285E09000	Gray

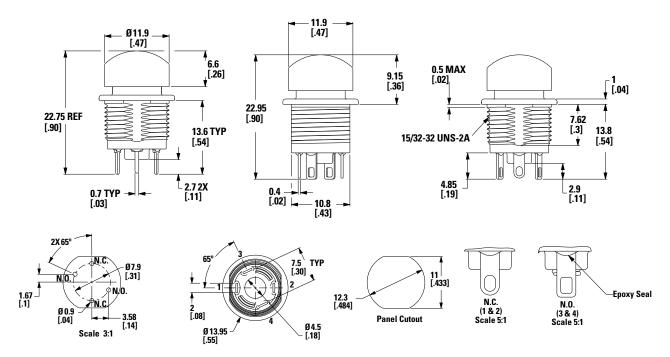


Color
White
Black
Red
Orange
Yellow
Green
Blue
Gray

Note: Cap may be ordered separately

Housing Style

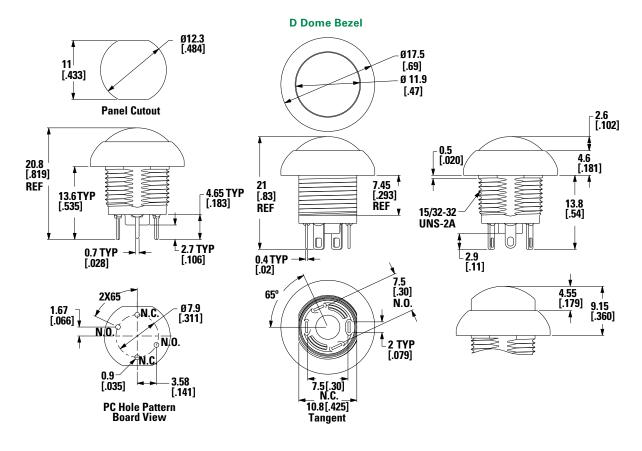
T Standard Threaded Mount



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Housing Color

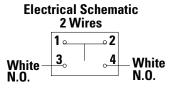
Option Code	Color
2	Black (STD)

Circuit

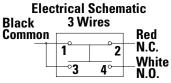
W SPST NC - Double Break

Electrical Schematic 2 Wires Red 1° 2 Red N.C. 3° 4

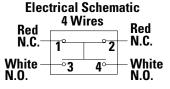
Y SPST NO - Double Break



C SPDT - Double Break



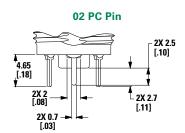
C SPDT - Double Break



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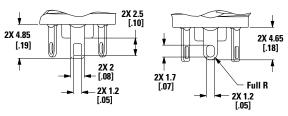
Sealed Pushbutton Switches





Termination

03 Solder Lug (STD)



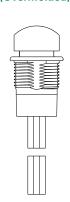
W2 2x 12" 22 AWG UL1569 Wire (Overmolded)

15/32-32 UNS-2A

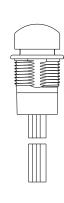
22 AWG UL1569 Wire See Schematic TYP (W2.W3.W4)

303.8 [11.96]

W3 3x 12" 22 AWG UL1569 Wire (Overmolded)



W4 3x 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

Hex Nut 707100201 Nickel-Plated

14.17 [0.558] Across Flats



Hardware Lockwasher 700302202





Panel Sasket 851D02000





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