



Specifications

Max. Current/Voltage Rating with Resistive Load:

400 mA 32 VAC - 100 mA 50 VDC - 125 mA 125 VAC.

Metal bushing type:

500 mA 48 VAC - 200 mA 50 VDC - 200 mA 250 VAC.

Initial Contact Resistance: 50 mΩ max. (without wire leads).

Note: When the switches with the wire assembly, we only test the electric conduction and will not test the contact resistance on the wire.

Insulation Resistance: 1 GΩ min. at 500 VDC.

Dielectric Strength: 1,000 VAC rms. (initial value).

Metal bushing type: 1,500 VAC rms. (initial value).

Electrical Life at Full Load: 500,000 cycles.

Mechanical Life: 1,000,000 cycles.

Operating Temperature: -30°C to 85°C.

Total Travel: 1.5 mm (.059 inch).

Operation Force: 2 N ~ 5 N.

Contact Bounce: 10 ms.

Torque: 0.5 Nm max.

Metal bushing type: 1.5 Nm max.

Ingress Protection:

IP 67
ACCORDING TO
EN 60529 1989+A1 2001
IEC 60529:2001



Materials

Case: Diallyl phthalate (DAP) (UL 94 V-0).

Cap: Polyamide 6/6.

Bushing: Polyamide 6/6.

Terminal: Copper or brass, gold over silver plated.

Contact: Brass, gold over silver plated.

Wire: Standard wire UL 3385 - 20 AWG.

Soldering Process

Manual Soldering: Use 30 watts soldering iron and controlled the temperature at 350°.

Duration of solder immersion: Max. 5 sec.

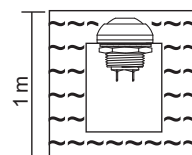
Wave Soldering: Recommend soldering temperature: 260 ± 5°C

Duration of solder immersion: Max. 5 sec.

(PCB thickness is 1.6 mm (0.63 inch))

IP67 for the whole series:

Protected against the effects of immersion up to 1 m water (30 min)



HOW TO ORDER

Note: Specifications and availability subject to change without notice.

Model No.	Bushing	Terminal & Wire	Contact Plating	Seal	RoHS Soldering	CAP	Additional Hardware	LED Color
SP PAS6 OFF-(ON)				A Sealed (Std.) C Gold over silver	S RoHS & Lead Free		5 Standard hardware	
		M1 Solder Lug (Std.) M3 8.20 mm, Solder Lug * M4 3.50 mm, PC thru-hole * L2 90 mm wire leads L3 100 mm wire leads D1 Molding 500 mm wire leads are only available for B2 bushing						
B1 Round, Snap-In B2 Round threaded B3 Round, Snap-In B6 Square threaded								

Note: Our standard is with flat cap.
1. LED is only available with flat cap.
2. Bushing B6 is only available with flat cap.

CAP Color	Item No.		
	Flat (Std.)	Round	High
White	1	A1	G1
Black (Std.)	2	A2	G2
Red (Std.)	3	A3	G3
Orange	4	A4	G4
Yellow	5	A5	G5
Green	6	A6	G6
Blue	7	A7	G7

**

Item No.	Color
Single Color LED	
L1	White
L3	Red
L5	Yellow
L6	Green
L7	Blue
Dual Color LED	
L36	Red+Green
L37	Red+Blue

**

EXAMPLE:

PAS6B2MICAS□-5 (Without LED)

Cap type

PAS6B2MICAS□-5□ (With LED)

LED color

Flat cap color

* Terminals M3 and M4 are only available with PAS6 without LED.

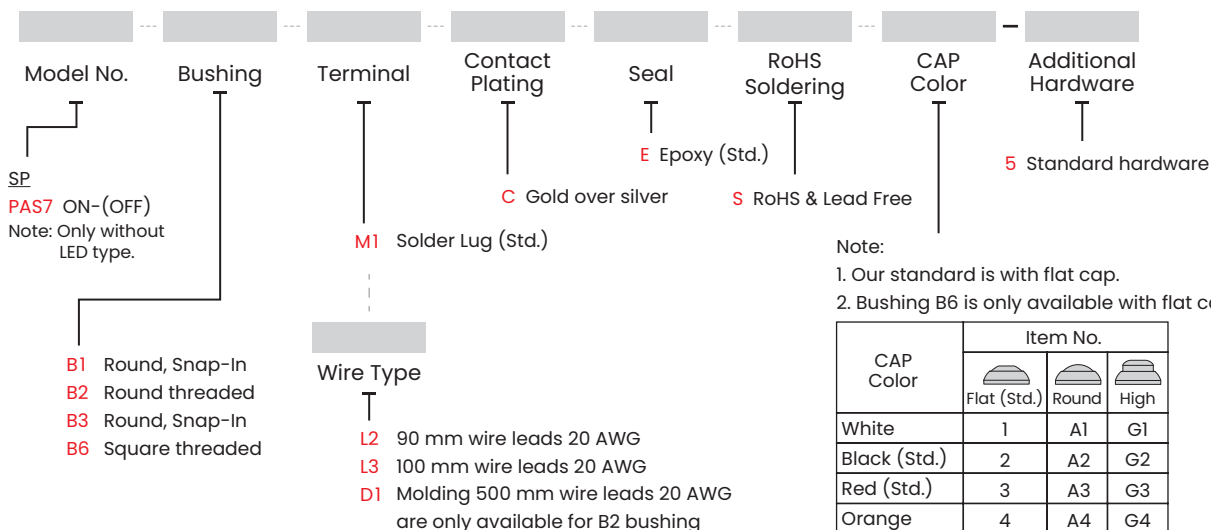
** Except standard color, for other colors information please consult sales representative.



HOW TO ORDER

Note: Specifications and availability subject to change without notice.

PA
Pushbutton Switches



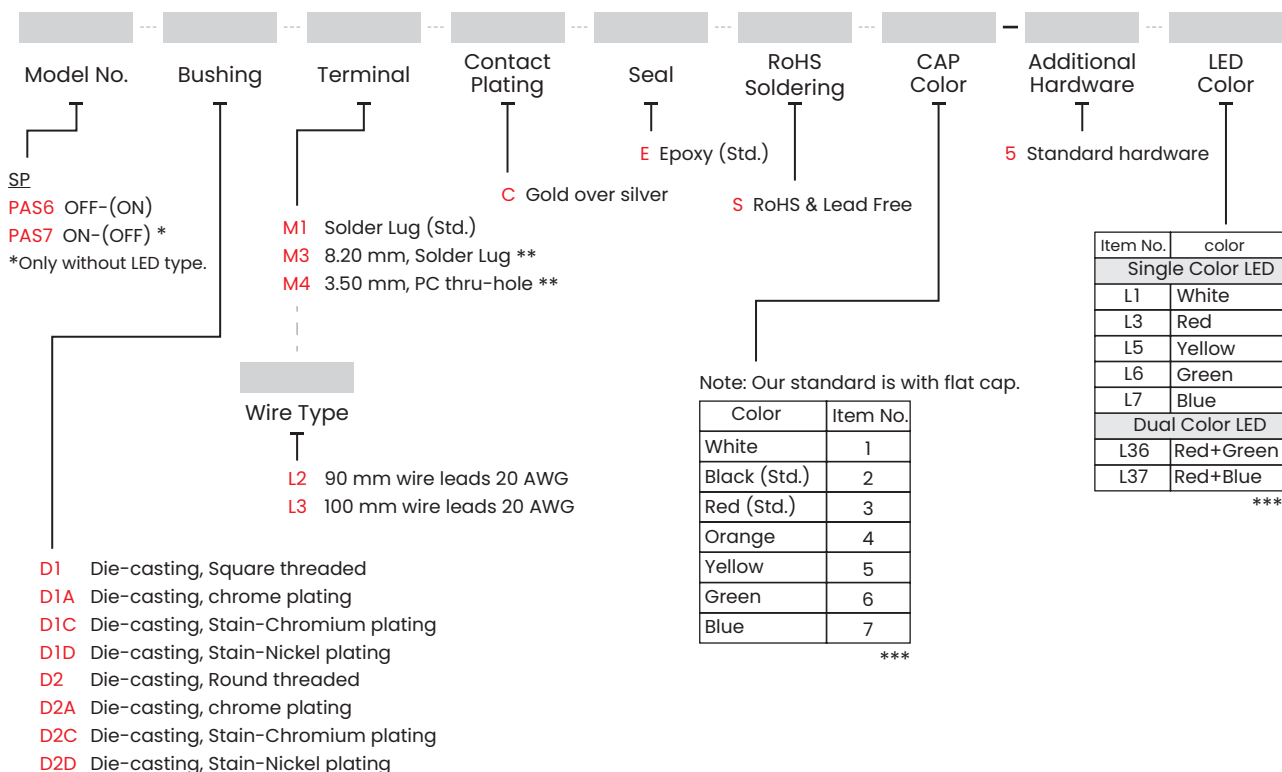
EXAMPLE:

PAS7B2MICES-5
Cap type

Note: Except standard color, for other colors information please consult sales representative.

HOW TO ORDER

Note: Specifications and availability subject to change without notice.



EXAMPLE:

PAS6D2MICES-5 (Without LED)
Cap color

PAS6D2MICES-5 (With LED)
LED color
Cap color

** Terminals M3 and M4 are only available with PAS6 without LED.
*** Except standard color, for other colors information please consult sales representative.

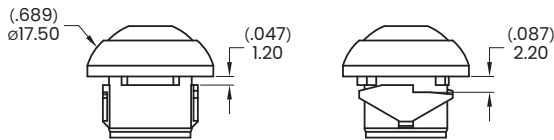
▼ SWITCH FUNCTION

No. Poles	Model No.	Switch Function		Connected Terminals		
		POS. 1	POS. 2	POS. 1	POS. 2	Schematic
SP	PAS6	OFF	(ON)	OPEN	1-3	
	PAS7	ON	(OFF)	1-3	OPEN	

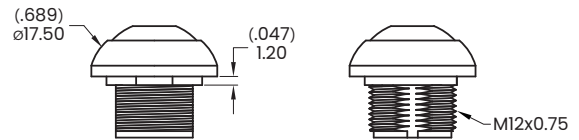
()=Momentary

▼ BUSHING OPTIONS FOR PAS6 MODEL

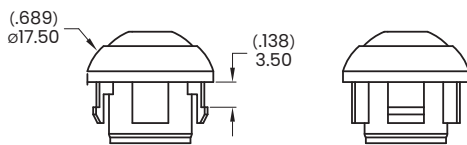
B1 Round, Snap-in



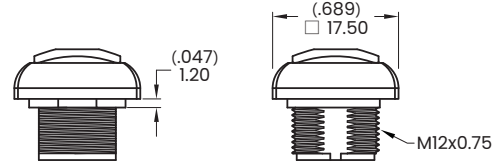
B2 Round threaded



B3 Round, Snap-in

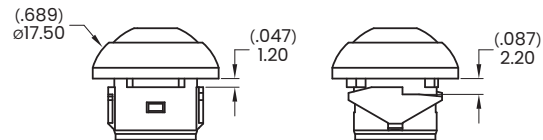


B6 Square threaded

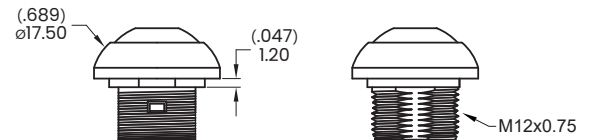


▼ BUSHING OPTIONS FOR PAS7 MODEL

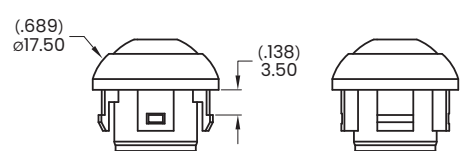
B1 Round, Snap-in



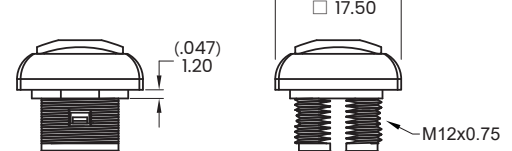
B2 Round threaded



B3 Round, Snap-in

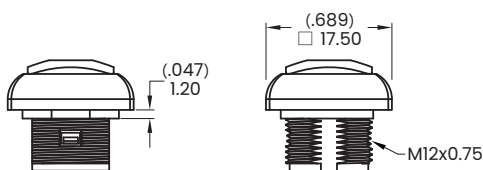


B6 Square threaded

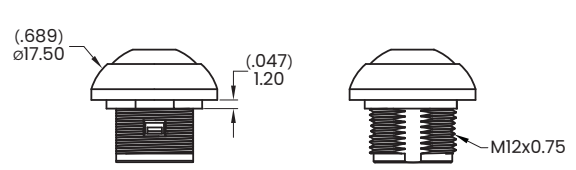


▼ DIE-CASTING BUSHING OPTIONS

D1 Square threaded, die-casting



D2 Round threaded, die-casting



Note: Die-casting with plating is only available for bushings D1 and D2.

A Chromium



C Stain-Chromium



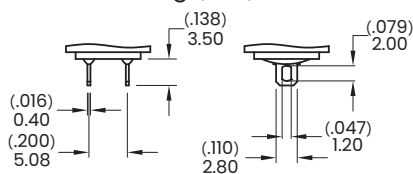
D Stain-Nickel



▼ TERMINAL OPTIONS

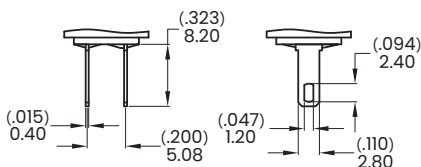
The terminals M1, M3 and M4 are shown with PAS6 model (standard)

M1 Solder lug (Std.)



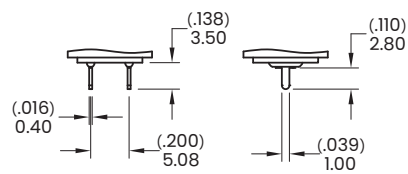
PAS7 Model: Terminal M1 Length 3.40 mm
, only available without LED.

M3 Solder lug



Note: Only available with PAS6 without LED.

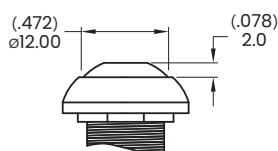
M4 PC Thru-hole



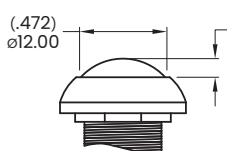
Note: Only available with PAS6 without LED.

▼ CAP OPTIONS

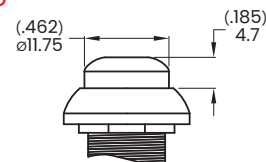
Flat Standard



Round No LED

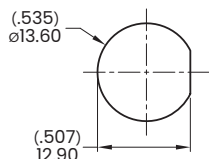


High No LED

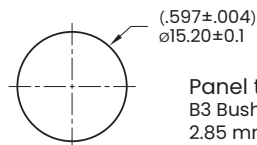


Note: Round and high caps are not available for bushings B6 and D1.

▼ PANEL MOUNTING



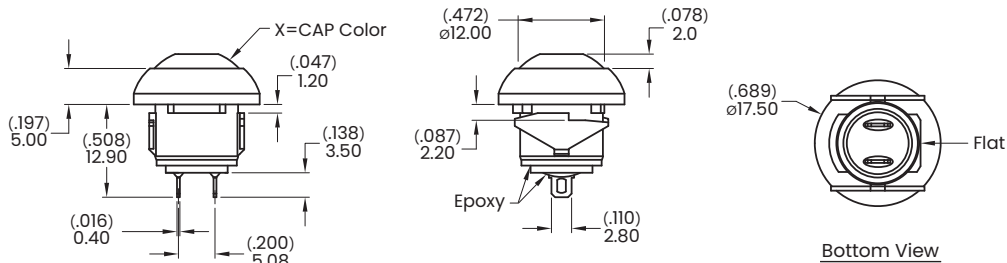
Panel thickness:
 B1 bushing:
 0.8 mm (.031 inch) min. ~ 1.8 mm (.071 inch) max.
 B2, B6, D1, D2 Bushings:
 1.5 mm (.059 inch) min. ~ 4 mm (.157 inch) max.



Panel thickness:
 B3 Bushing:
 2.85 mm +0.05/-0.10 mm
 (.112 inch +.002/-0.004 inch)

▼ DIMENSION

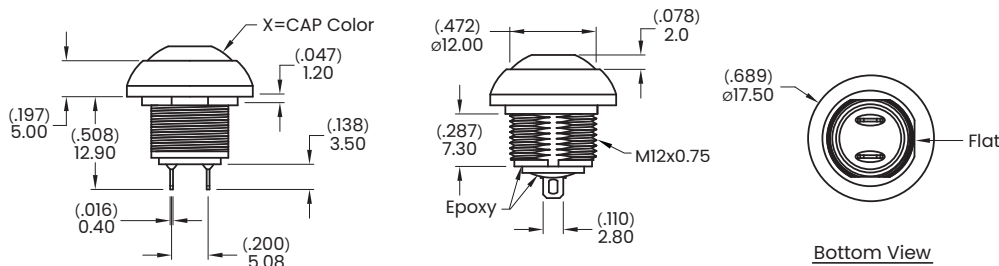
B1



SPST

Model name. PAS6B1MICASX-5

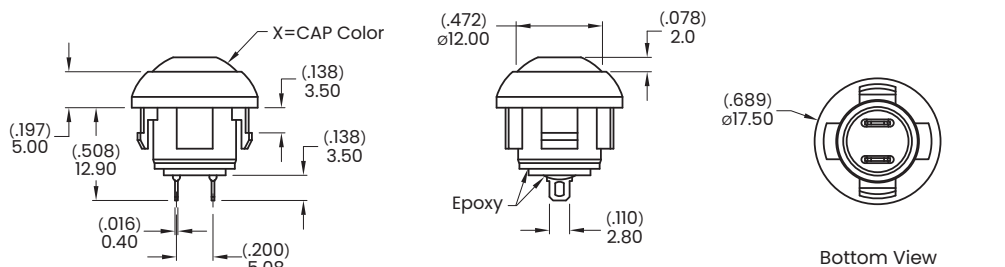
B2



SPST

Model name. PAS6B2MICASX-5

B3

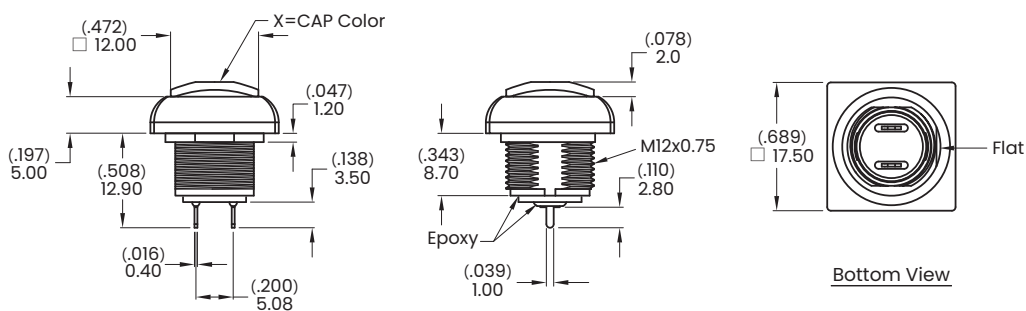


SPST

Model name. PAS6B3MICASX-5



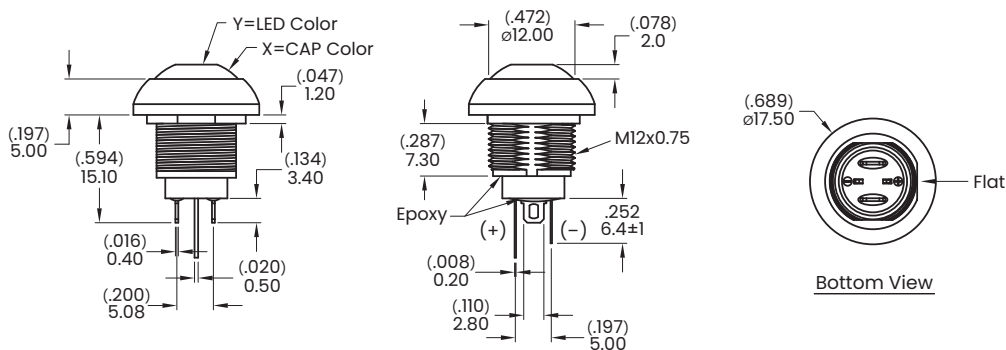
B6



SPST

Model name. PAS6B6M4CASX-5

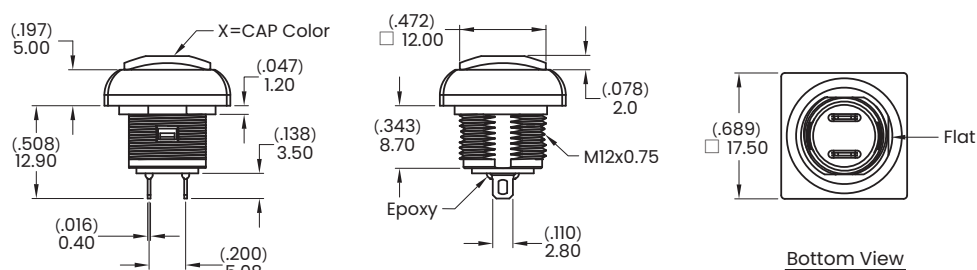
B2



SPST

Model name. PAS6B2M1CASX-5LY

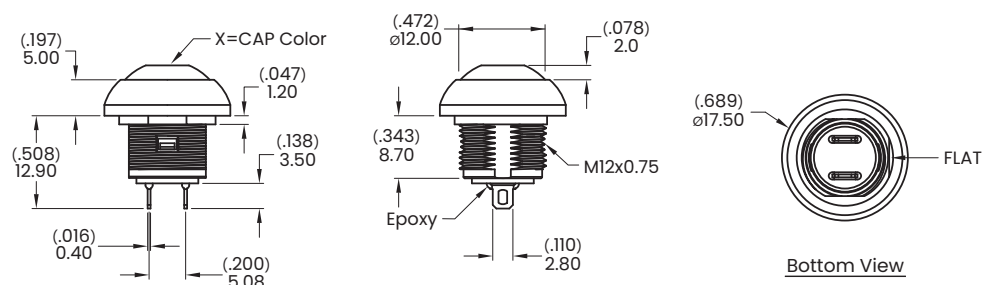
D1



SPST

Model name. PAS6D1M1CESX-5

D2



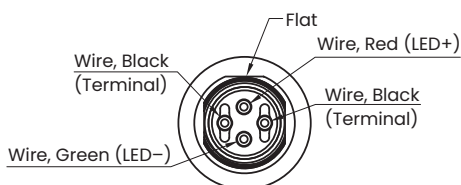
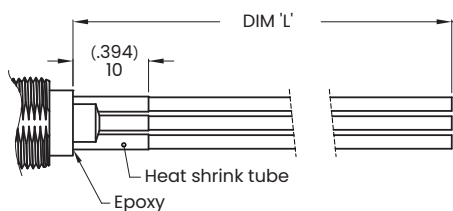
SPST

Model name. PAS6D2M1CESX-5

▼ WIRE OPTIONS

Note: Please consult sales for additional wire options.

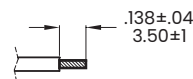
Wire leads, 20 AWG



Note:
For L2 code: No LED terminals is black and red wires
For L3 code: No LED terminals is black wires

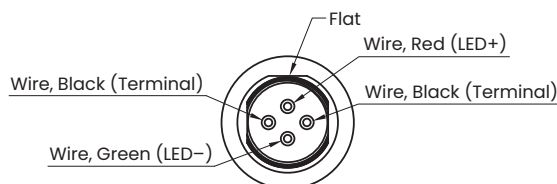
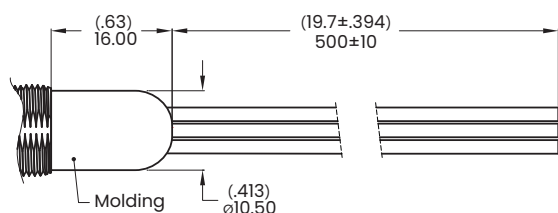
Wire Length:

Code	DIM 'L'
L2 *	90±5 (3.54±.197)
L3	100±5 (3.94±.197)



* Stripping wire for code L2

D1 Molding, 500 mm wire leads, 20 AWG



Note: No LED terminals is black wires

▼ HARDWARE

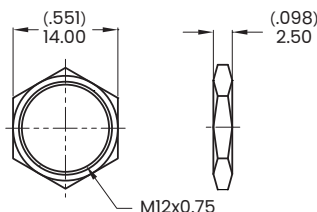
EXAMPLE:
Model name. 5 Standard Hardware

* Standard for threaded bushing : 1 Nut, 1 EVA Washer or O-Ring, 1 Lock Washer

* For further information please consult sales representative.

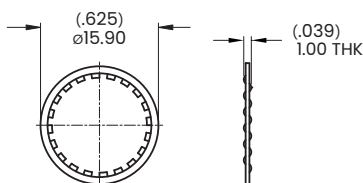
Hex Nut

Model name. MNU-PA03



Lock Washer

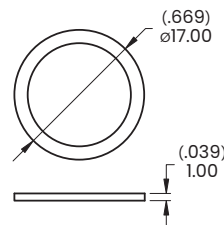
Model name. MNU-1M09



For Threaded bushing

EVA Washer

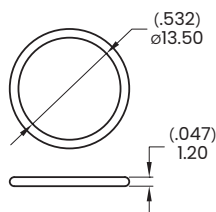
Model name. FSU-PA01



Available with bushing B1 and B2 only

O-RING

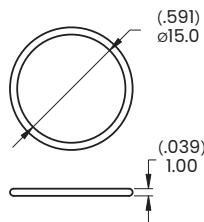
Model name. FCP-A253



Only available for bushings D1, D2, B6 and model PAL6 B2 bushings

O-RING

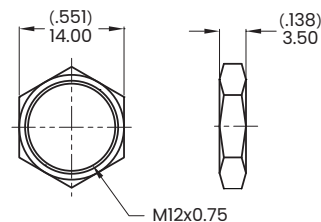
Model name. FCP-P004



Available with bushing B3 only

Hex Nut

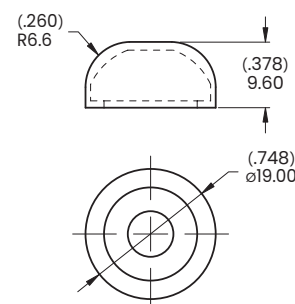
Model name. MNU-PA04
MOQ: 10K



▼ RUBBER HOOD

Model name. FCP-P003 (Transparent)

FCP-P003-2 (Black) MOQ: 10K



Note: Standard is with flat cap.

EXAMPLE:
Model name. 4 Standard hardware+FCP-P003 (Transparent rubber hood)



Specifications

Max. Current/Voltage Rating with Resistive Load:

100 mA 24 VDC-life expectancy 200,000 cycles.

2A 125 VAC-life expectancy 10,000 cycles.

Initial Contact Resistance: 50 mΩ max. (without wire leads).

Note: When the switches with the wire assembly, we only test the electric conduction and will not test the contact resistance on the wire.

Insulation Resistance: 1 GΩ min. at 500 VDC.

Dielectric Strength: 1,000 VAC rms. (initial value).

Operating Temperature: -30°C to 85°C.

Total Travel: 2.5 mm (.098 inch).

Operating Force: 2 N ~ 5 N.

Contact Bounce: 10 ms.

Mechanical Life: 1,000,000 cycles.

Torque: 0.5 Nm max.

Ingree Protection:

IP 67
ACCORDING TO
EN 60529 IEC 60529

RoHS
complies

Pb
lead-free

Materials

Case: Polyamide 6/6.

Cap: Polyamide 6/6.

Bushing: Polyamide 6/6.

Terminal: Copper, gold over silver plated.

Contact: Brass, gold over silver plated.

Wire: Standard wire UL 3385 - 20 AWG.

Soldering Process

Manual Soldering: Use 30 watts soldering iron and controlled the temperature at 350°.

Duration of solder immersion: Max. 5 sec.

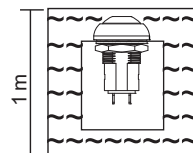
Wave Soldering: Recommend soldering temperature: 260 ± 5°C

Duration of solder immersion: Max. 5 sec.

(PCB thickness is 1.6 mm (0.63 inch))

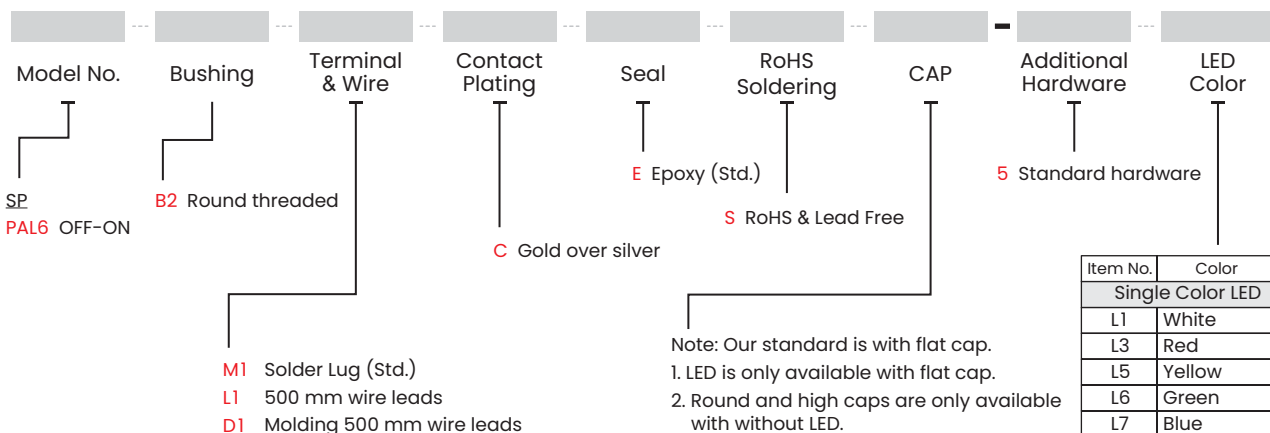
IP67 for the whole series:

Protected against the effects of immersion up to 1 m water (30 min)



HOW TO ORDER

Note: Specifications and availability subject to change without notice.



Item No.	Color
Single Color LED	
L1	White
L3	Red
L5	Yellow
L6	Green
L7	Blue
Dual Color LED	
L36	Red+Green

*

CAP Color	Item No.		
	Flat (Std.)	Round	High
White	1	A1	G1
Black (Std.)	2	A2	G2
Red (Std.)	3	A3	G3
Orange	4	A4	G4
Yellow	5	A5	G5
Green	6	A6	G6
Blue	7	A7	G7

*

EXAMPLE:

PAL6B2M1CES -5 (Without LED)

Cap type

PAL6B2M1CES -5 (With LED)

LED color

Flat cap color

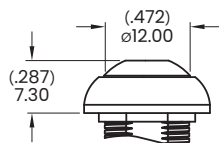
* Except standard color, for other colors information please consult sales representative.

▼ SWITCH FUNCTION

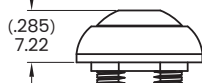
No. Poles	MODEL NO.	Switch Function		Connected Terminals		Schematic
		POS. 1	POS. 2	POS. 1	POS. 2	
SP	PAL6	OFF	ON	OPEN	1-3	

▼ CAP OPTIONS

FLAT Standard

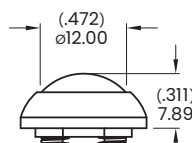


Without LED

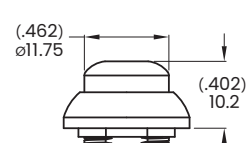


With LED

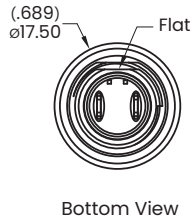
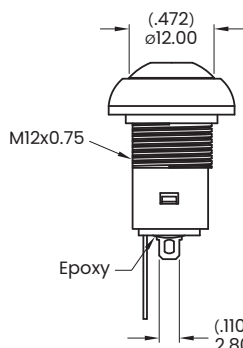
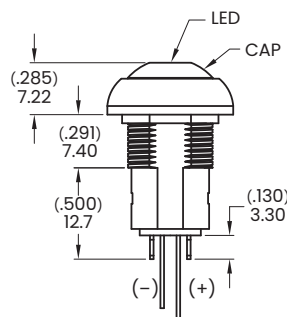
ROUND No LED



HIGH No LED

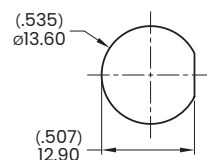


▼ DIMENSION



Bottom View

Panel Mounting



Panel thickness:
1.5 mm (.059 inch) min.
~ 4 mm (.157 inch) max.

Note: Standard hardware 1 Nut, 1 O-Ring, 1 Lock Washer. See page 137.

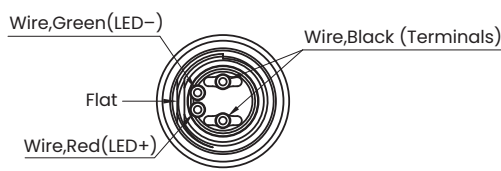
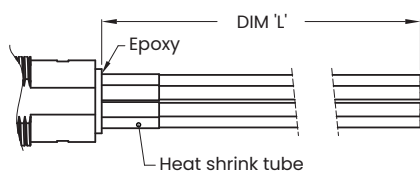
▼ WIRE OPTIONS

Note: Please consult sales for additional wire options.

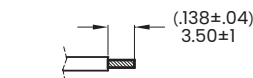
Wire leads, 20 AWG

Wire Length:

Code	DIM 'L'
L1	500±10 (19.7±.394)
L2 *	90±5 (3.54±.197)
L3	100±5 (3.94±.197)

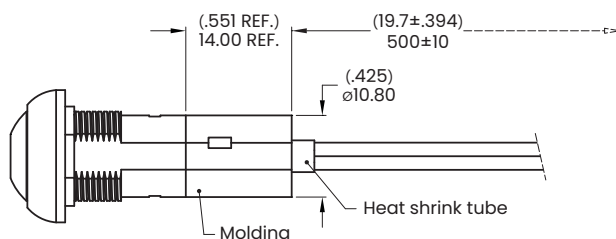


Note: No LED terminals is black wires



* Stripping wire for code L2

D1 Molding, 500 mm wire leads, 20 AWG



Wires:
Black wires - Terminals
Red wire - LED (+)
Green wire - LED (-)

Note: No LED terminals is black wires