



MATERIALS

CAP: Polyamide 6/6.

PLUNGER: PFS6: PC / PFS7: Polyamide 6/6.

RUBBER: Silicone.

BUSHING: Polyamide 6/6.

CASE: Diallyl phthalate (DAP)(UL94v-0).

TERMINAL/CONTACTS: Gold over silver plated.

SPECIFICATION

MAX. CURRENT/VOLTAGE RATING WITH RESISTIVE LOAD :

400mA 32VAC - 200 mA 50VDC - 125 mA 125VAC.

INITIAL CONTACT RESISTANCE : 50mΩmax.

INSULATION RESISTANCE : 1GΩmin.at 500VDC.

DIELECTRIC STRENGTH : 1,500 VAC rms.

ELECTRICAL LIFE AT FULL LOAD : 500,000 cycles.

OPERATING TEMPERATURE : -30°C to 85°C.

PANEL THICKNESS : 1.5 mm (.059) min. -4 mm (.157) max.

TOTAL TRAVEL : 1.5 mm(.059)

OPERATING FORCE : 3N~6N

CONTACT BOUNCE : 10 ms.

MECHANICAL LIFE : 1,000,000 cycles.

TORQUE : 0.5 Nm max.applied to nut

DEGREE OF PROTECTION: IP68

MANUAL SOLDERING:

Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

WAVE SOLDERING:

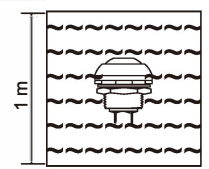
Recommended Soldering Temperature: 260 ± 5°C

※ Ambient temperature of the soldered Surface of PC board.110°C Max.

Duration of Solder Immersion: Max 5 sec.(PCB is 1.6mm in thickness)

IP 68 for the whole series:

Protected against the effects of immersion up to 1 m water(60min)



HOW TO ORDER

MODEL NO. BUSHING CAP COLOR TERMINATIONS CONTACT MATERIAL SEAL RoHS SOLDERING ADDITIONAL HARDWARE LED COLOR



Model NO.

PFS6 SP OFF-(ON)
PFS7 SP ON-(OFF)
(Without LED)

Bushing

B2 Threaded bushing

Cap color

0 ☐ **M** Flat, Matte
A ☐ **S** Round, Bright(Non-LED)
G ☐ **S** High, Bright(Non-LED)

* Only flat cap available with LED.

CAP COLOR	ITEM NO.		
	Matte	Bright	Bright
White	01M	A1S	G1S
Black (Std)	02M	A2S	G2S
Red (Std)	03M	A3S	G3S
Yellow	05M	A5S	G5S
Green	06M	A6S	G6S
Blue	07M	A7S	G7S

* Besides standard color, other colors need to check stocks available.

Terminations

M1 3.50 high, Solder lug(PFS6 only, Non-LED)
3.40 high, Solder lug(with LED and PFS7 Non-LED)
M2 5.50 high, Solder lug(PFS6 only, Non-LED)
M3 8.20 high, Solder lug(PFS6 only, Non-LED)
M4 3.50 high, PC thru-hole(PFS6 only, Non-LED)

Contact material
C Gold over silver

Seal
A Sealed (STD)

RoHS soldering
S RoHS & Lead Free

Additional hardware
05 Additional hardware

LED Color

ITEM NO	COLOR
L00	Without LED
L01	White
L03	Red
L05	Yellow
L06	Green
L07	Blue

EXAMPLE:

PFS6B2A2SM1 CAS05L00(Without LED)

PFS6B20 ☐ MM1 CAS05L ☐

└ CAP color └ LED Color



PF Series

Sub-Miniature Pushbutton Switches

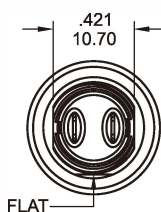
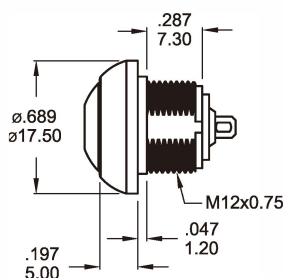
SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC	
		POS.1	POS.2	POS.1	POS.2
SP	PFS6	OFF	(ON)	OPEN	CLOSE
SP	PFS7	ON	(OFF)	CLOSE	OPEN

()=MOMENTARY

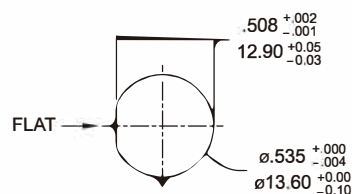
BUSHING TYPE

B2



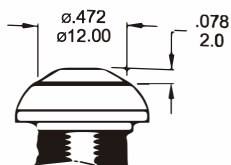
PANEL CUT-OUT

THICKNESS: 1.5 mm ~ 4.0 mm

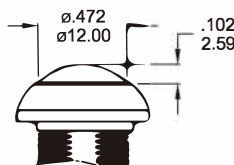


CAP OPTIONS

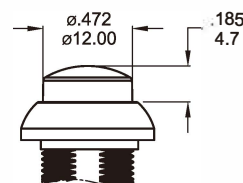
FLAT



ROUND Non-LED

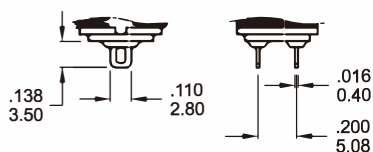


HIGH Non-LED

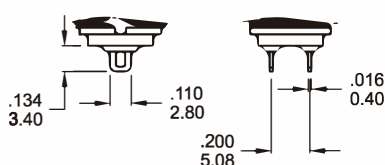


TERMINATION OPTIONS

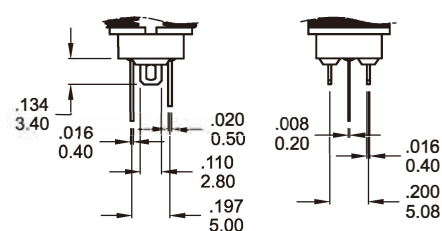
M1 Solder lug



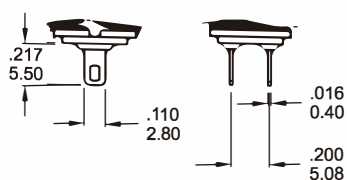
M1 Solder lug (PFS7)



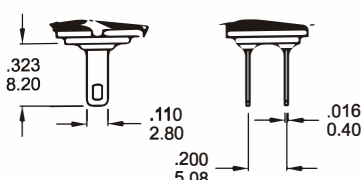
M1 Solder lug (PFS6, With LED)



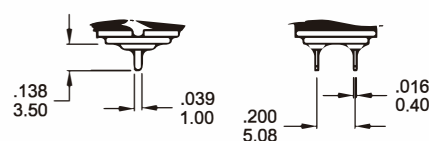
M2 Solder lug

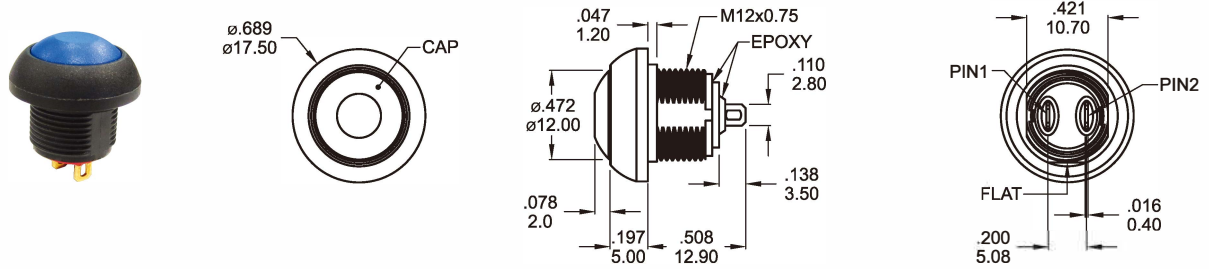


M3 Solder lug



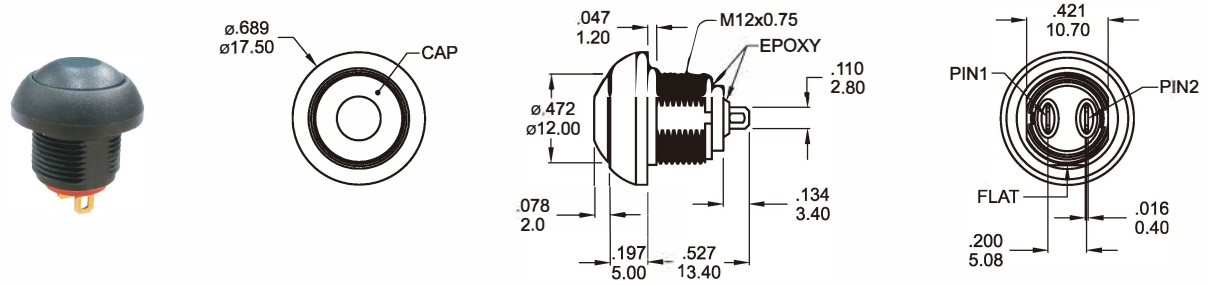
M4 PC Thru-hole





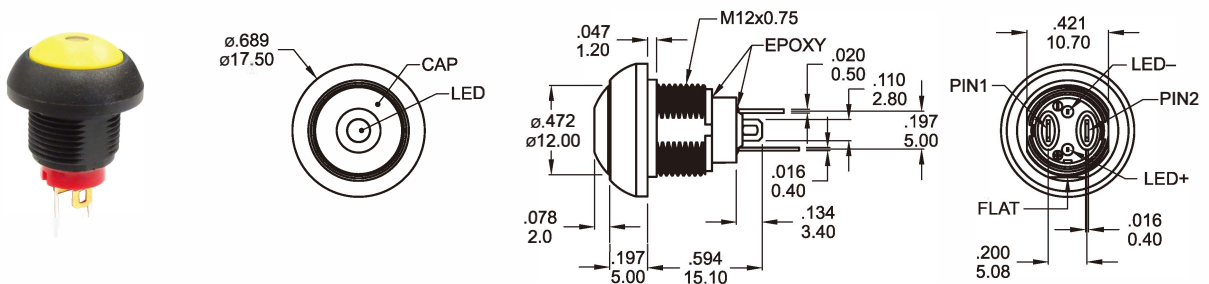
SPST

Part No. Shown : PFS6B207MM1CAS05L00



SPST

Part No. Shown : PFS7B202M1CAS05L00

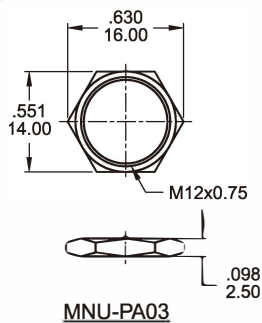


SPST

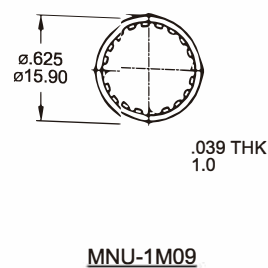
Part No. Shown : PFS6B205M1CAS05L01

HARDWARE

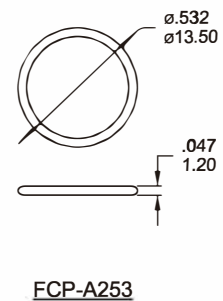
M12 NUT



LOCK WASHER



O-RING



PF Wire Series

Sub-Miniature Pushbutton Switches



PF
Pushbutton Switches

MATERIALS

CAP: Polyamide 6/6.
PLUNGER: PFS6:PC / PFS7:Polyamide 6/6.
RUBBER: Silicone.
BUSHING: Polyamide 6/6.
CASE: Diallyl phthalate (DAP)(UL94v-0).
TERMINAL/CONTACTS: Gold over silver plated.
Multi-wire lead AWG20,section 0.6mm²,UL approved

SPECIFICATION

MAX. CURRENT/VOLTAGE RATING WITH RESISTIVE LOAD :

400mA 32VAC - 200 mA 50VDC - 125 mA 125VAC.

INITIAL CONTACT RESISTANCE : 100mΩmax.

※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 : 1GΩmin.at 500VDC.

DIELECTRIC STRENGTH : 1,500 VAC ms.

ELECTRICAL LIFE AT FULL LOAD : 500,000 cycles.

OPERATING TEMPERATURE : -30°C to 85°C.

PANEL THICKNESS : 1.5 mm (.059) min. -4 mm (.157) max.

TOTAL TRAVEL : 1.5 mm(.059)

OPERATING FORCE : 3N~6N

CONTACT BOUNCE : 10 ms.

MECHANICAL LIFE : 1,000,000 cycles.

TORQUE : 0.5 Nm max.applied to nut

DEGREE OF PROTECTON: IP68

MANUAL SOLDERING:

Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

WAVE SOLDERING:

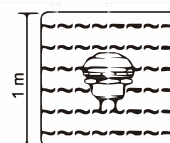
Recommended Soldering Temperature: 260 ± 5°C

※ Ambient temperature of the soldered Surface of PC board.110°C Max.

Duration of Solder Immersion: Max 5 sec.(PCB is 1.6mm in thickness)

IP 68 for the whole series:

Protected against the effects of immersion up to 1 m water(60min)



HOW TO ORDER

MODEL NO.	BUSHING	CAP COLOR	TERMINATIONS	CONTACT MATERIAL	SEAL	RoHS SOLDERING	ADDITIONAL HARDWARE	LED COLOR	WIRE														
Model NO. PFS6 SP OFF-(ON) PFS7 SP ON-(OFF) (Without LED)	Bushing B2 Threaded bushing	Cap color 0 Flat,Matte A Round,Bright(Non-LED) G High,Bright(Non-LED) * Only flat cap available with LED.	Terminations M1 Solder lug(STD)	Contact material C Gold over silver	Seal A Sealed (STD)	RoHS soldering S Rohs & Lead Free	Additional hardware 05 Additional hardware * See page 145	LED Color <table border="1"> <thead> <tr> <th>ITEM NO</th> <th>COLOR</th> </tr> </thead> <tbody> <tr> <td>L00</td> <td>Without LED</td> </tr> <tr> <td>L01</td> <td>White</td> </tr> <tr> <td>L03</td> <td>Red</td> </tr> <tr> <td>L05</td> <td>Yellow</td> </tr> <tr> <td>L06</td> <td>Green</td> </tr> <tr> <td>L07</td> <td>Blue</td> </tr> </tbody> </table>	ITEM NO	COLOR	L00	Without LED	L01	White	L03	Red	L05	Yellow	L06	Green	L07	Blue	Wire S001 500mm leads cylinder(PFS6 only) S002 90mm leads cylinder,stripping wire(PFS6 only) S003 100mm leads cylinder(PFS6 only) Y001 500mm leads heat shrink Y002 90mm leads heat shrink,stripping wire Y003 100mm leads heat shrink
ITEM NO	COLOR																						
L00	Without LED																						
L01	White																						
L03	Red																						
L05	Yellow																						
L06	Green																						
L07	Blue																						

* Besides standard color, other colors need to check stocks available.

EXAMPLE:
PFS6B202MM1CAS05L03-S001

Wire code

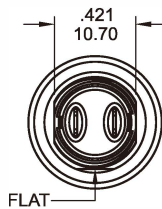
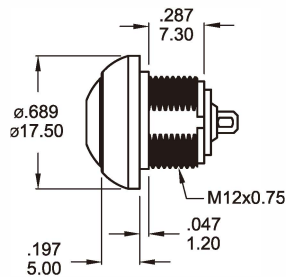
SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC	
		POS.1	POS.2	POS.1	POS.2
SP	PFS6	OFF	(ON)	OPEN	CLOSE
SP	PFS7	ON	(OFF)	CLOSE	OPEN

()=MOMENTARY

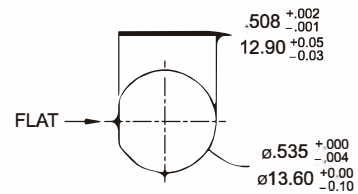
BUSHING

B2



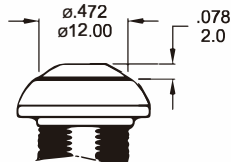
PANEL CUT-OUT

THICKNESS: 1.5 mm ~ 4.0 mm

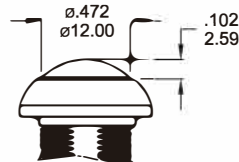


CAP OPTIONS

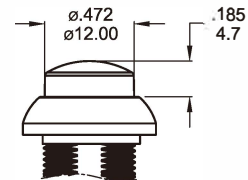
FLAT



ROUND Non-LED

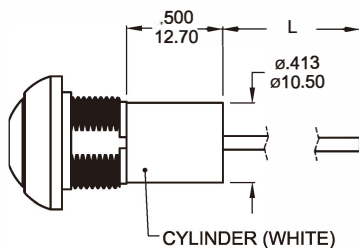


HIGH Non-LED

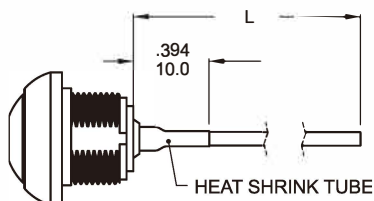


WIRE OPTIONS

SXXX Only for model type PFS6



YXXX



WIRE LENGTH

CODE	DIM "L"
S001	500±10(19.7±.394)
S002 *	90±5(3.54±.197)
S003	100±5(3.94±.197)
Y001	500±10(19.7±.394)
Y002 *	90±5(3.54±.197)
Y003	100±5(3.94±.197)



※ Multi-wire lead AWG20, section 0.6mm², UL approved.

Non-LED

DESCRIPTION	WIRE COLOR
TERMINAL 1	BLACK
TERMINAL 2	BLACK

With LED

DESCRIPTION	WIRE COLOR
TERMINAL 1	BLACK
TERMINAL 2	BLACK
LED+	RED
LED-	GREEN

