Push Button Switches

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Specifications

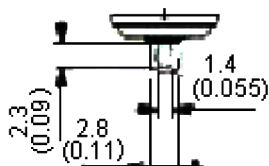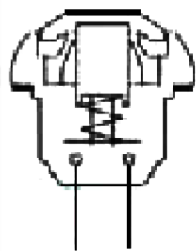|	
Max. Current/Voltage Rating with Resistive Load	: 400mA 32V AC, 100mA 50V DC and 125mA 125V AC
Max. Initial Contact Resistance	: 50mΩ
Min. Insulation Resistance	: 1GΩ at 500V DC
Dielectric strength	: 1,000V AC rms
Electrical life at full load	: 500,000 cycles

Panel Thickness

-B1 series	: 0.8mm (0.031″) minimum and 1.8mm (0.071″) maximum
-B2 series	: 1.5mm (0.059″) minimum and 4mm (0.157″) maximum
Total travel	: 1.5mm (0.59″)
Operating Force	: 2 N to 5 N
Contact Bounce	: 10 ms
Mechanical Life	: 1,000,000 cycles
Max. Torque	: 1.5 Nm applied to nut
Max. Soldering	: 300°C for 3 seconds

Switch Function

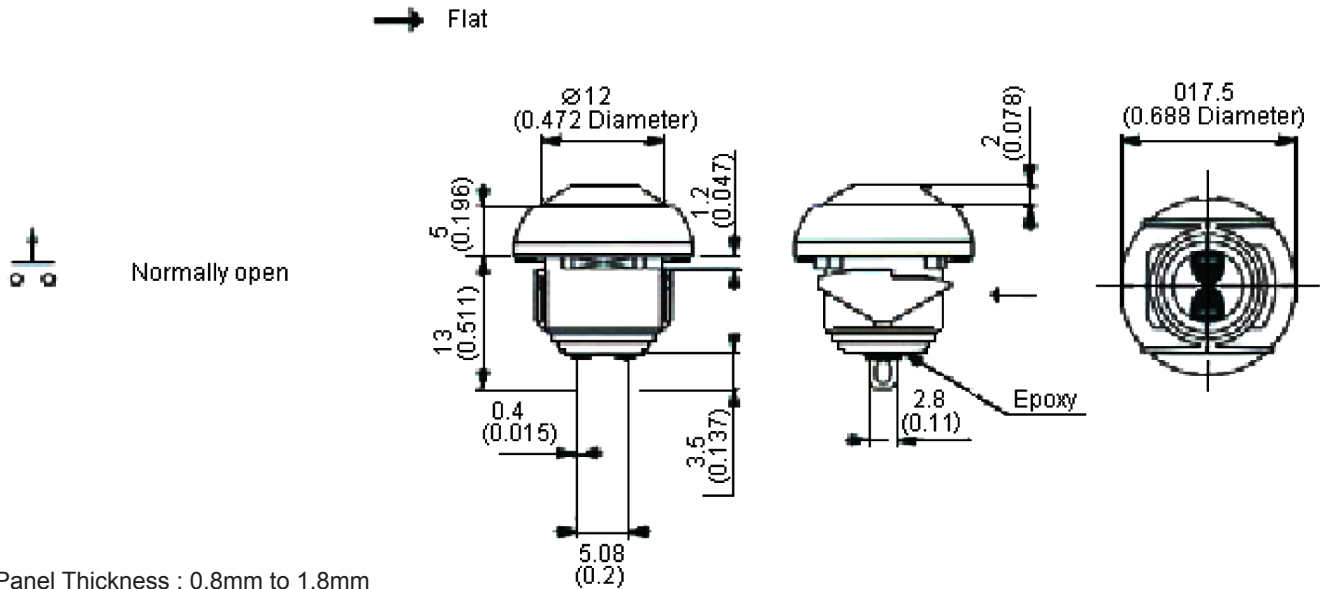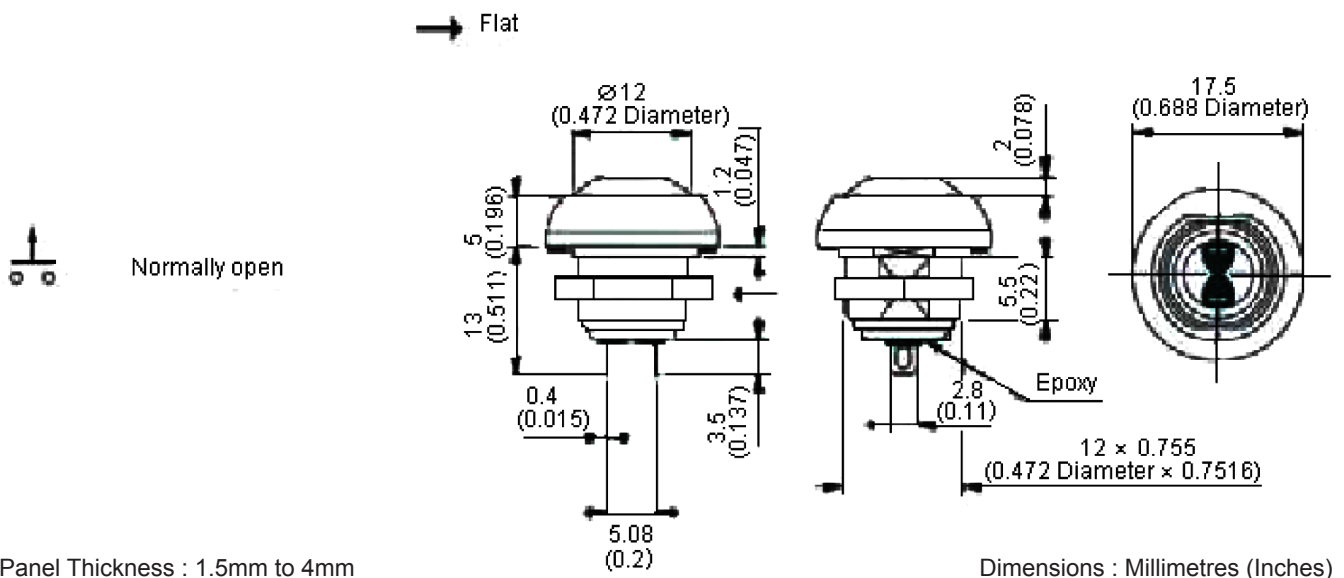| Number Poles	Switch Function		Connected Terminals		Schematic	Model Number
	Position 1	Position 2	Position 1	Position 2		
SP	OFF	MOM	OPEN	1-3		PAS6

Pole Options

Dimensions : Millimetres (Inches)

Features

- Eight plunger colours
- Flat plunger top allowing marking
- Anti rotation bushing
- New solder lug terminal

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Page <1>   18/05/20   V1.0

Push Button Switches

Snap-in Mounting

Flat →

Normally open

Panel Thickness : 0.8mm to 1.8mm

Ø12 (0.472 Diameter)

5 (0.196)

1.2 (0.047)

2 (0.078)

Ø17.5 (0.688 Diameter)

13 (0.511)

0.4 (0.015)

3.5 (0.137)

2.8 (0.11)

Epoxy

5.08 (0.2)

Mounting by Threaded Bushing

Flat →

Normally open

Panel Thickness : 1.5mm to 4mm

Ø12 (0.472 Diameter)

5 (0.196)

1.2 (0.047)

2 (0.078)

17.5 (0.688 Diameter)

13 (0.511)

5.5 (0.22)

0.4 (0.015)

3.5 (0.137)

2.8 (0.11)

Epoxy

5.08 (0.2)

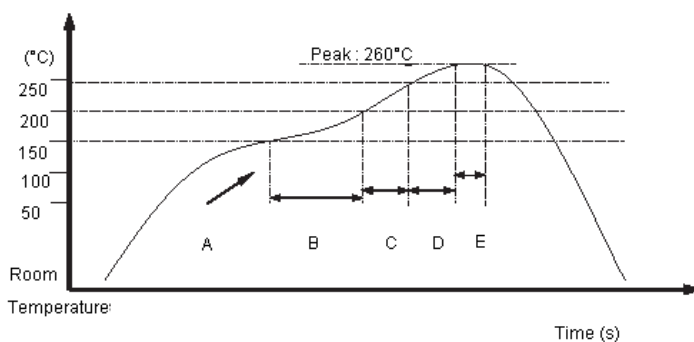12 × 0.755 (0.472 Diameter × 0.7516)

Dimensions : Millimetres (Inches)

Soldering Processes

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 Duration of solder Immersion : 5 ±1 seconds (PCB is 1.6mm in thickness)

Soldering : Vapor phase

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Page <2>   18/05/20   V1.0

Push Button Switches

Temperature Profile

Zone	Room Temperature (°C)	Time (Seconds)
Pre-heat (A)	150	Minimum 120s
Soak (B)	180 to 200	Minimum 150s
Peak (C)	200 to 235	Minimum 30s
Peak (D)	235 to 260	Minimum 40s
Peak (E)	260	Maximum 10s

Part Number Table

Description	Part Number
Switch, Push Button, SPST, IP67, Blue	MCPAS6B1M1CE7
Switch, Push Button, SPST, IP67, Black	MCPAS6B1M1CE2
Switch, Push Button, SPST, IP67, Red	MCPAS6B1M1CE3
Switch, Push Button, SPST, IP67, Green	MCPAS6B1M1CE6
Switch, Push Button, SPST, IP67, Yellow	MCPAS6B1M1CE5
Switch, Push Button, SPST, IP67, Blue	MCPAS6B2M1CE7
Switch, Push Button, SPST, IP67, Black	MCPAS6B2M1CE2
Switch, Push Button, SPST, IP67, Red	MCPAS6B2M1CE3
Switch, Push Button, SPST, IP67, Green	MCPAS6B2M1CE6
Switch, Push Button, SPST, IP67, Yellow	MCPAS6B2M1CE5

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Page <3>   18/05/20   V1.0