

Specifications

Mechanical Life: 30,000 make-and-break cycles.
Electrical Life: 6,000 cycles.
Contact Resistance: 10 mΩ max. (initial value) @ 2-4 VDC 100 mA for both silver and gold plated contacts.
Insulation Resistance: 1,000 MΩ min. at 1,000 VDC.
Dielectric Strength: 1,000 Vrms min.@sea level (initial value).
Operating Temperature: -40°C to 85°C.

Ingree Protection:   

Contact & Terminal Plating Options:

Contact Plating	Terminal Plating	Ratings
Q Silver	Silver	5 Amps with resistant load @ 120 VAC or 28 VDC
C Gold over Silver	Gold over silver	2 Amps with resistant load @ 250 VAC
R Gold	Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)

Notes: All models  with all options when ordered with Q or C contact material.

Materials

Case: Diallyl phthalate (DAP) (UL 94 V-0).
Housing: Stainless steel.
Actuator: Nylon, black.
Switch Support: Brass, tin plated.
Terminal / Contact: Copper with silver or gold plated.

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 (.063 inch))

HOW TO ORDER

Note: Specifications and availability subject to change without notice.

Model No.

SP
5MS1 ON-NONE-ON
5MS2 ON-NONE-(ON)
5MS3 ON-OFF-ON

DP
5MD1 ON-NONE-ON
5MD3 ON-OFF-ON

Actuator

S0 1.30 mm *
S1 5.08 mm (Std.)
S2 7.24 mm
S3 9.40 mm
S4 3.56 mm
S5 5.08 mm **
S7 12.32 mm

Actuator Color

Item No.	Color
01	White
02	Black (Std.)
03	Red
04	Orange
05	Yellow
06	Green
07	Blue
09	Gray

Mounting Ears

A NO Mounting Ears
B Mounting Ears

Terminal

M1 3.96 mm, Solder Lug
M2 6.60 mm, PC thru-hole
M3 6.60 mm, Quick Connect
M52 24.20 mm, wire wrap
M54 26.97 mm, wire wrap
M6 PC Thru-Hole Right angle
M7 PC Thru-Hole Vertical right angle
VS2 PC Thru-Hole Vertical ***

Terminal Plating

Q Silver
R Gold
C Gold over silver

Seal

E Epoxy (Std.)
N No Epoxy

RoHS Soldering

S RoHS & Lead Free

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

EXAMPLE:
5MS1S1□BBIQES
└─ Actuator Color

- * Actuator S0 is not applicable for 5MS3 model.
- ** Only available for DP model.
- *** Not applicable for actuator S5 type.

SWITCH FUNCTION

No. Poles	UL/CSA Model No.	Model No.	Switch Function			Connected Terminals / Schematic		
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3
SP	Q1511	5MS1	ON	NONE	ON		N/A	
	Q1512	5MS2	ON	NONE	(ON)			
	Q1513	5MS3	ON	OFF	ON		OPEN	
DP	Q1521	5MD1	ON	NONE	ON		N/A	
	Q1523	5MD3	ON	OFF	ON		OPEN	

()=Momentary

POLE OPTIONS

SPDT

Model name. 5MSIS102BM1QES

DPDT

Model name. 5MDIS102BM1QES

ACTUATOR OPTIONS

S0

Note: Not applicable for 5MS3 model.

S1 Standard

S2

S3

S4

S7

S5

Only available for DP model

Note:
1. Not applicable to terminal VS2.
2. Actuator with terminals M1, M2:
For 5MD1: +0.12 mm (.005 inch)
3. Actuator with terminals M6, M7:
For 5MD3: -0.28 mm (.011 inch)

Front

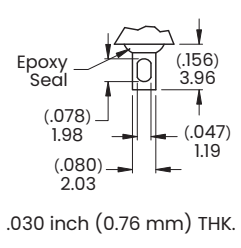
For S0~S4 and S7 actuators

5M Slide Switches

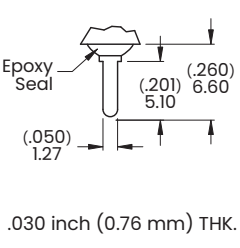
▼ TERMINAL OPTIONS

5M
Slide Switches

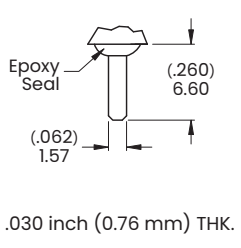
M1 Solder lug



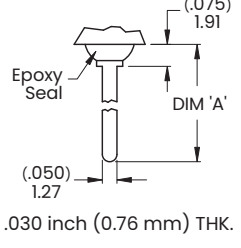
M2 PC Thru-Hole



M3 Quick connect

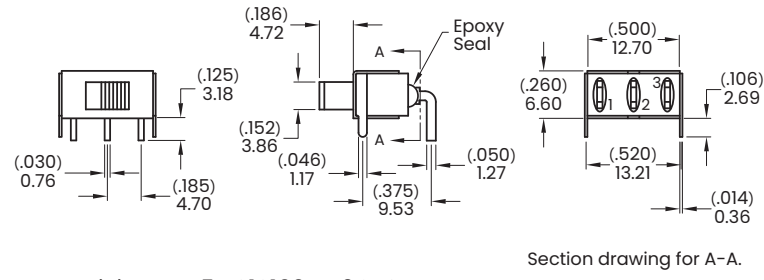


M5 Wire Wrap

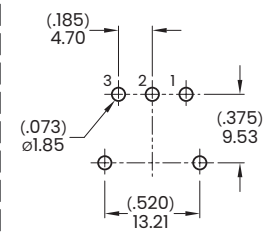


Option Code	DIM 'A'
M52	24.20 (.953)
M54	26.97 (1.062)

M6



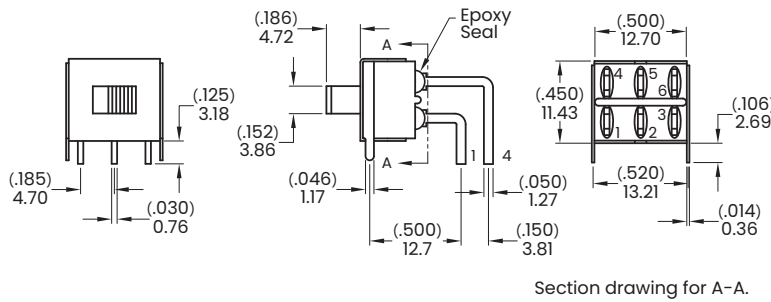
PCB Mounting



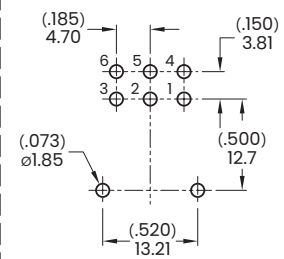
SPDT

Model name. 5MS1S102AM6QES

M6



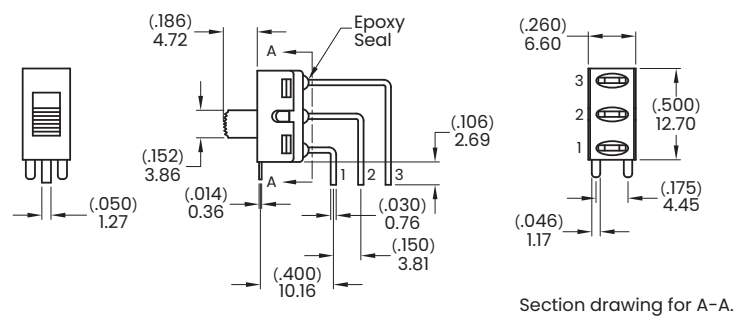
PCB Mounting



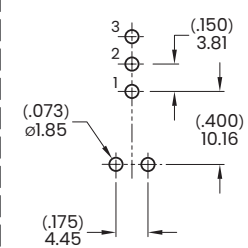
DPDT

Model name. 5MD1S102AM6QES

M7



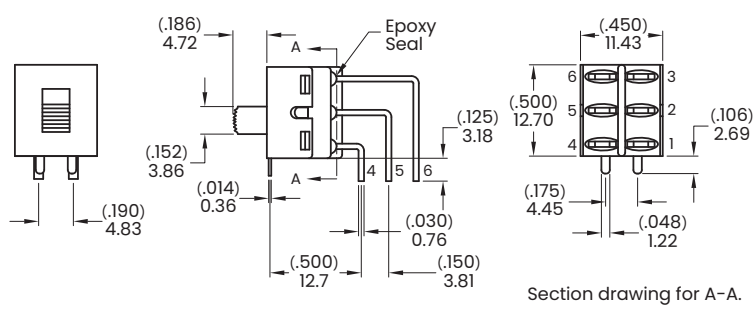
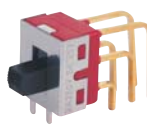
PCB Mounting



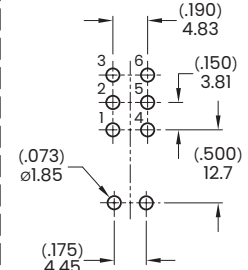
SPDT

Model name. 5MD1S102AM7QES

M7



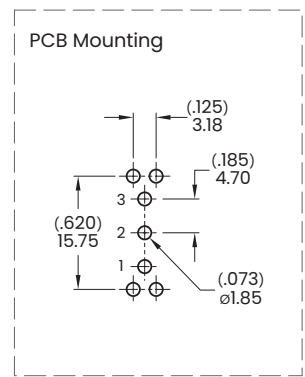
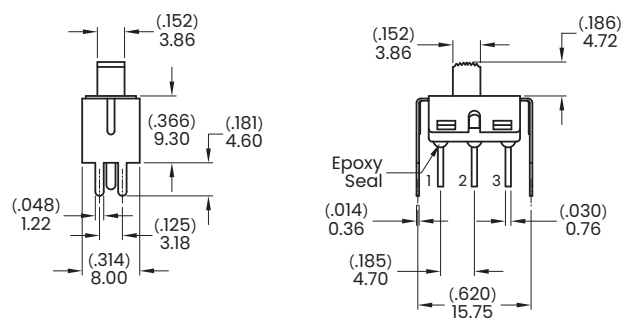
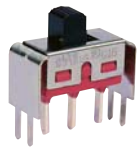
PCB Mounting



DPDT

Model name. 5MD1S102AM7QES

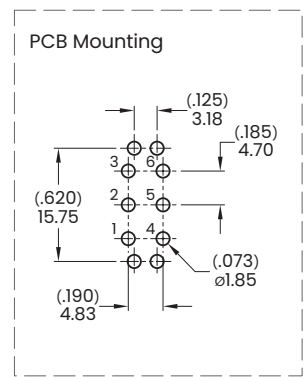
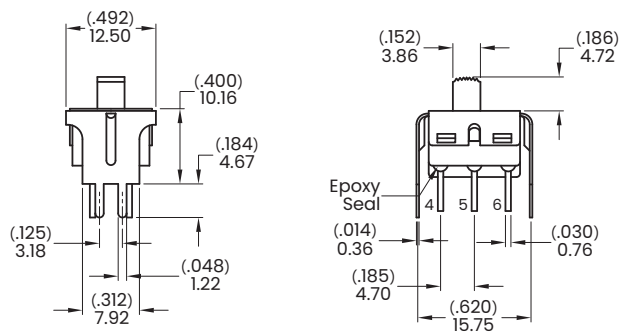
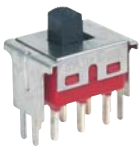
VS2



SPDT

Model name. 5MSIS102AVS2QES

VS2

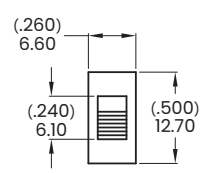


DPDT

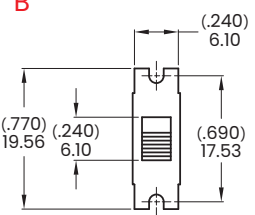
Model name. 5MDIS102AVS2QES

▼ MOUNTING EARS

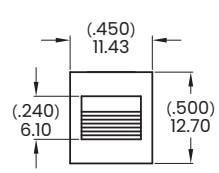
A Without



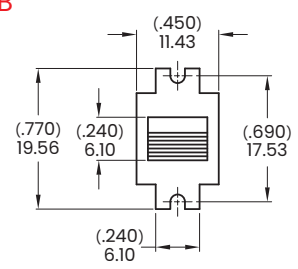
B



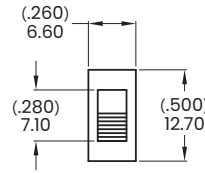
A Without



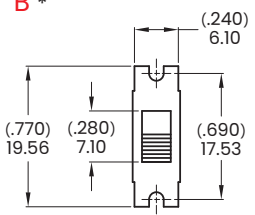
B



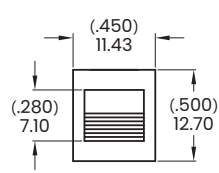
A Without *



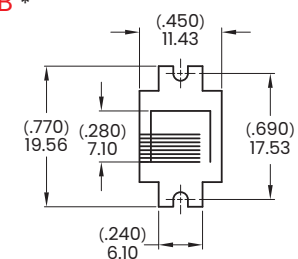
B *



A Without *



B *



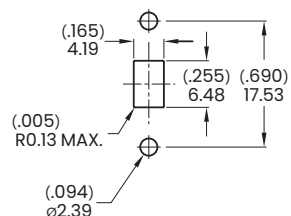
* Three positions only.

Note: Standard for S0~S4 and S7 actuator.

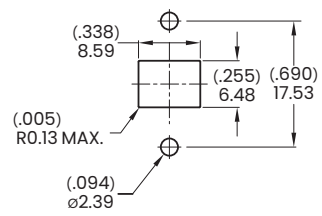
* Three positions only.

Note: Standard for S5 actuator.

▼ PANEL MOUNT

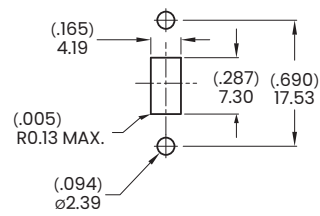


For S0~S4 and S7 actuator

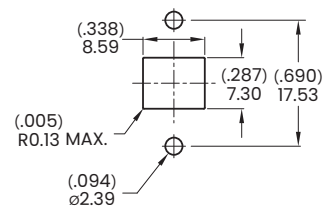


For S5 actuator only

Three positions only



For S0~S4 and S7 actuator



For S5 actuator only