



6M Series

Miniature Slide Switches for P.C. Board



6M
Slide Switches



SPECIFICATIONS

- CONTACT RATING: Dependent upon contact material, see page 94.
- CONTACT RESISTANCE: 50mΩmax. (initial value)
- MECHANICAL LIFE: 20,000 cycles.
- INSULATION RESISTANCE: 1,000 MΩ min./1000VDC
- DIELECTRIC STRENGTH: 1,000 Vrms min.@sea level.(initial value)
- OPERATING TEMPERATURE: -40°C to 80°C.

MATERIALS

- CASE: PBT, white.
- ACTUATOR: PBT, black .
- HOUSING: POM, black .
- CONTACT/TERMINALS: Copper with silver or gold plated .
(See page 94)

HOW TO ORDER

MODEL NO.	ACTUATOR	ACTUATOR COLOR	TERMINAL TYPE	TERMINAL PLATING	SEAL	RoHS SOLDERING
<u>SP</u> 6MS1 ON-NONE-ON 6MS3 ON-OFF-ON	<u>S1</u> Flush <u>S2</u> 2.80 high <u>S3</u> Side actuator <u>S4</u> 6.00 high <u>S5</u> Side actuator * <u>S6</u> 9.80 high **	<u>02</u> Black(std)	<u>SP</u> <u>M1</u> PC thru-hole, terminal spacing 2.54mm <u>M3</u> PC thru-hole, terminal spacing 5.08mm <u>DP</u> <u>M2</u> PC thru-hole, terminal spacing 2.54mm <u>M4</u> PC thru-hole, terminal spacing 5.08mm	<u>Q</u> Silver <u>R</u> Gold <u>C</u> Gold over silver	<u>E</u> EPOXY (std)	<u>S</u> RoHS & Lead Free

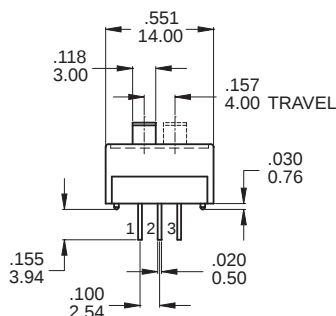
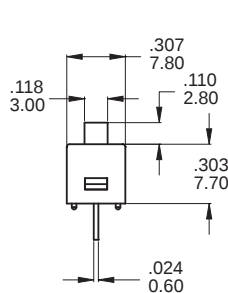
* Actuator S5 is for DPDT
** Actuator S6 is for SPDT

EXAMPLE: 6MS1S102M1QES

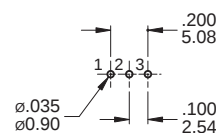
▼ SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
		POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
SP	6MS1	ON	NONE	ON	2-1	OPEN	2-3
	6MS3	ON	OFF	ON	1-2 (COMM) 1-3		1-2 (COMM) 1-3
DP	6MD1	ON	NONE	ON	2-1,5-4	OPEN	2-3,5-6
	6MD3	ON	OFF	ON	1-2 (COMM) 1-3 4-5 4-6		1-2 (COMM) 1-3 4-5 4-6

▼ POLE OPTIONS

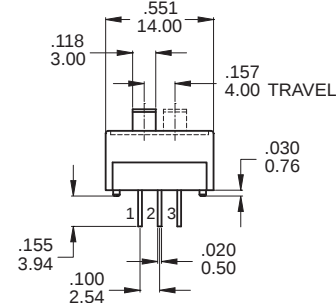
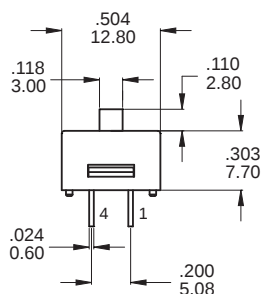


PCB MOUNTING

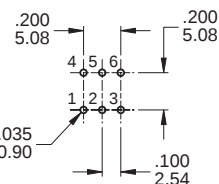


SPDT

Model name. 6MS1S202M1QES



PCB MOUNTING

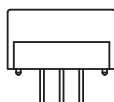


DPDT

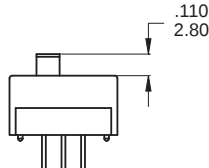
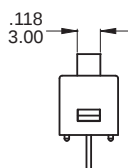
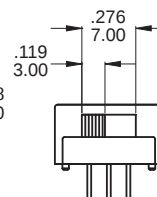
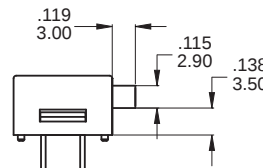
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▼ ACTUATOR OPTIONS

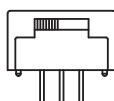
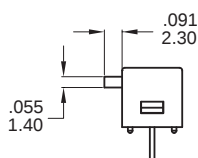
S1 FLUSH



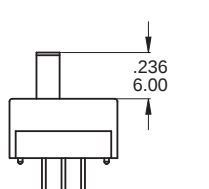
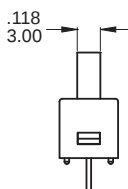
S2

S5 SIDE ACTUATOR
Only available for DPDT

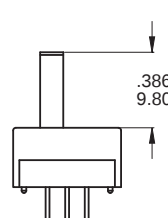
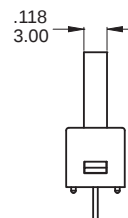
S3 SIDE ACTUATOR



S4



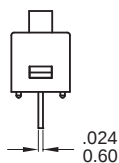
S6 Only available for SPDT





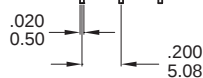
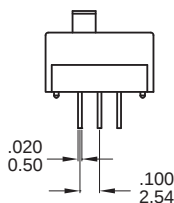
▼ TERMINAL OPTIONS

M1

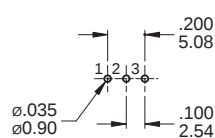


SPDT

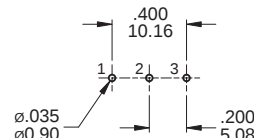
M3



PCB MOUNTING

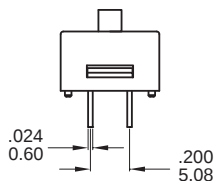


SPDT

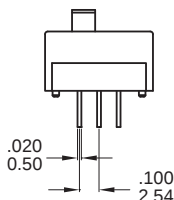


SPDT

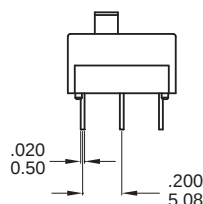
M2



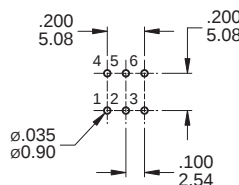
DPDT



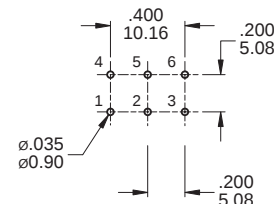
M4



PCB MOUNTING



DPDT



DPDT

▼ CONTACT & TERMINAL PLATING OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Silver	3 Amps with resistant load @ 120VAC or 28VDC 1 Amps with resistant load @ 250VAC
C	Gold over Silver	Gold over silver	
R	Gold	Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)

▼ SOLDERING PROCESS

WAVE SOLDERING: Recommend soldering temperature: $260 \pm 5^{\circ}\text{C}$

Duration of solder immersion: Max. 5 sec. (PCB thickness is 1.6mm)