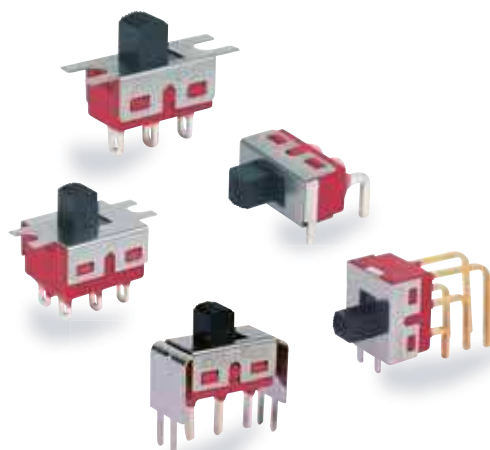




SPECIFICATIONS

CONTACT RATING: Dependent upon contact material.

MECHANICAL LIFE: 30,000 make-and-break cycles.

CONTACT RESISTANCE: 10mΩ max. initial @ 2-4VDC
100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000M Ω min.

DIELECTRIC STRENGTH: 1,000 V RMS@sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

MATERIALS

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

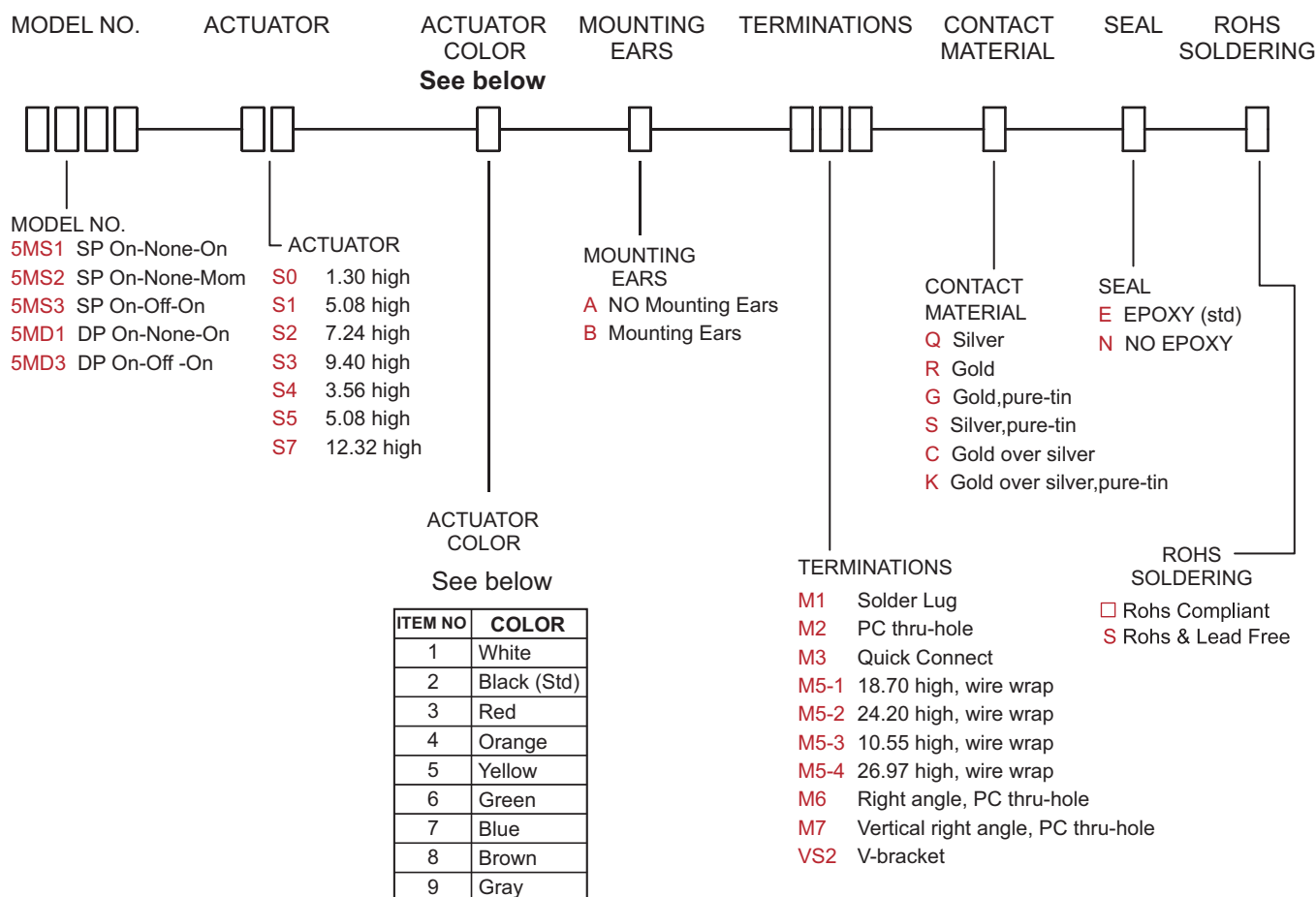
HOUSING: Stainless Steel.

ACTUATOR: Nylon,black std.

CONTACT: Silver or gold plated.

TERMINAL SEAL: Epoxy. (See Page 92)

HOW TO ORDER

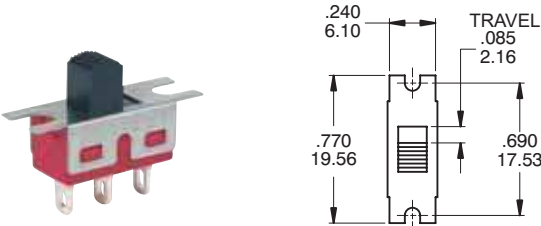


SWITCH FUNCTION

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	2-1	N/A	2-3
	Q1512	5MS2	ON	NONE	MOM		OPEN	
	Q1513	5MS3	ON	OFF	ON			
DP	Q1521	5MD1	ON	NONE	ON	2-1,5-4	N/A	2-3,5-6
	Q1523	5MD3	ON	OFF	ON		OPEN	

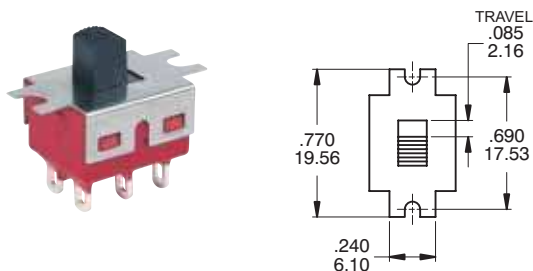
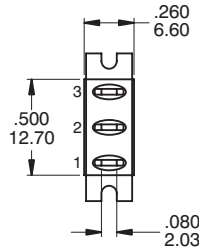
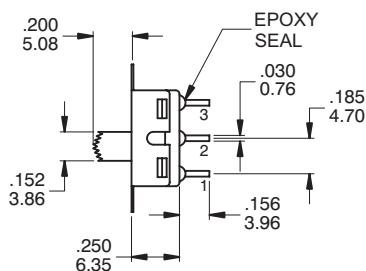
MOM=MOMENTARY

POLE OPTIONS



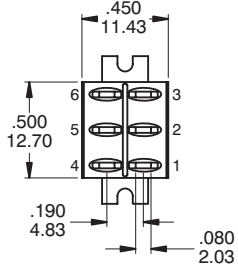
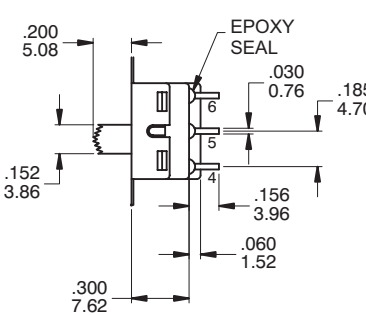
SPDT

Part No. Shown : 5MS1S12BM1QE



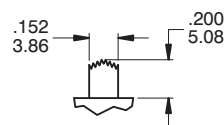
DPDT

Part No. Shown : 5MD1S12BM1QE

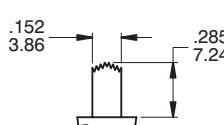


ACTUATOR OPTIONS

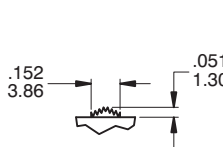
S1 STD



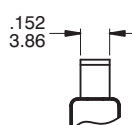
S2



S0

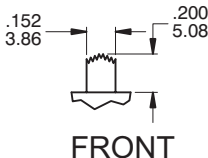


FRONT

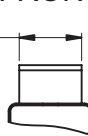


For S0,S1,S2,S3,S4

▲ S5

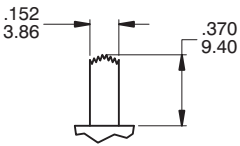


FRONT

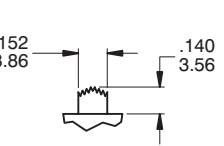


FOR DPDT ONLY

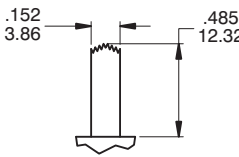
S3



S4



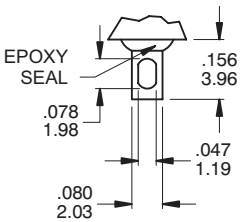
S7



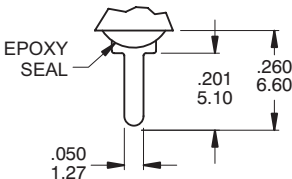
* Subtract .014(0.36) from Actuator height for M6, M7 P.C. MOUNTING OPTION.

TERMINATION OPTIONS

M1 SOLDER LUG

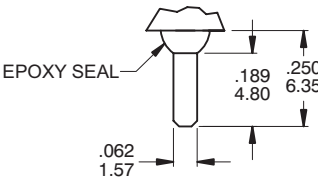


M2 PC THRU-HOLE



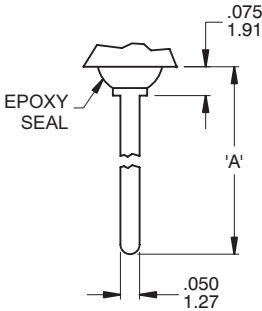
.030(0.76) THK.

M3 QUICK CONNECT



THK .030(0.76)

M5 WIRE WRAP



THK .030(0.76)

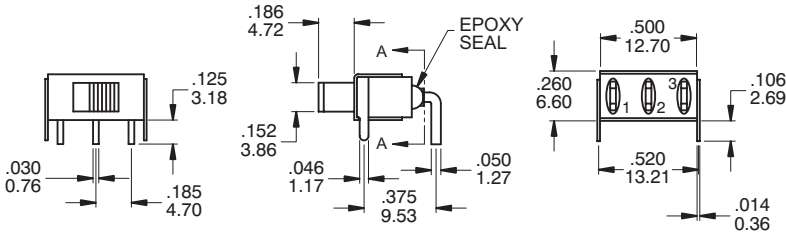
OTHER TERMINATION OPTIONS

- M6 RIGHT ANGLE P.C. MOUNT
- M7 RIGHT ANGLE P.C. MOUNT
- VS2 VERTICAL BRACKET P.C. MOUNT

RE Mating Quick Connector
Amp P/N 60900-1

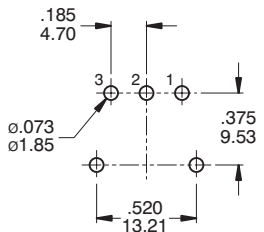
OPTION CODE	DIM. 'A'
M5-1	.736 (18.70)
M5-2	.953 (24.20)
M5-3	.415 (10.55)
M5-4	1.062 (26.97)

M6



SECTION A-A
TERM.NOS.FOR
REFERENCE ONLY

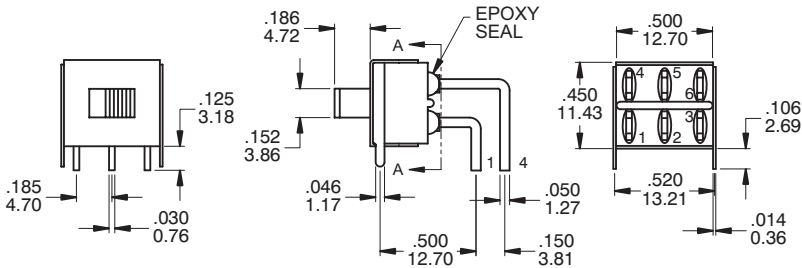
P.C. MOUNTING



SPDT

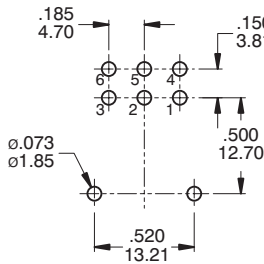
Part No. Shown : 5MS1S12AM6QE

M6



SECTION A-A
TERM.NOS.FOR
REFERENCE ONLY

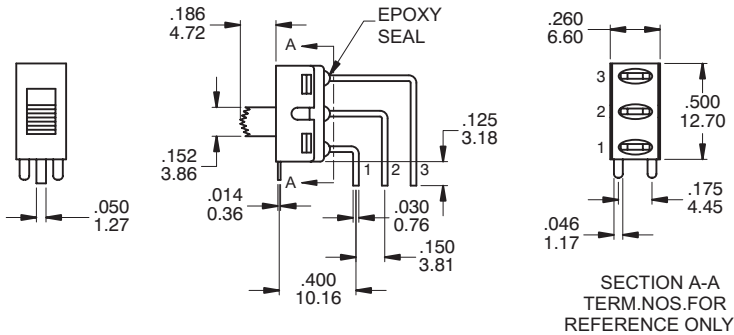
P.C. MOUNTING



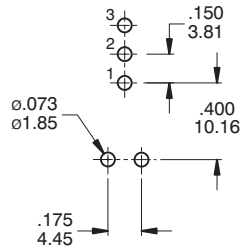
DPDT

Part No. Shown : 5MD1S12AM6QE

M7



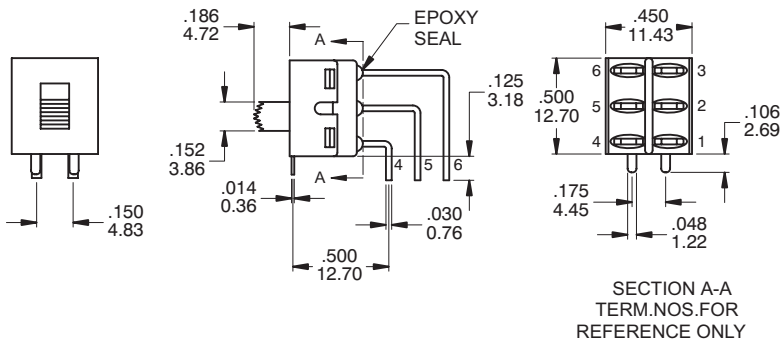
P.C. MOUNTING



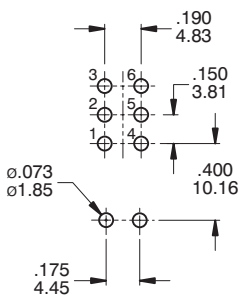
SPDT

Part No. Shown : 5MS1S12AM7QE

M7



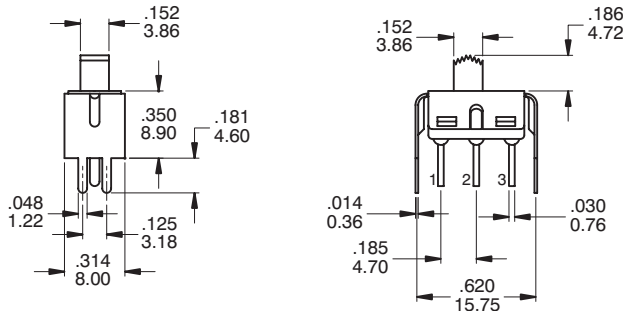
P.C. MOUNTING



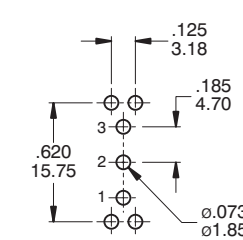
DPDT

Part No. Shown : 5MD1S12AM7RE

VS2



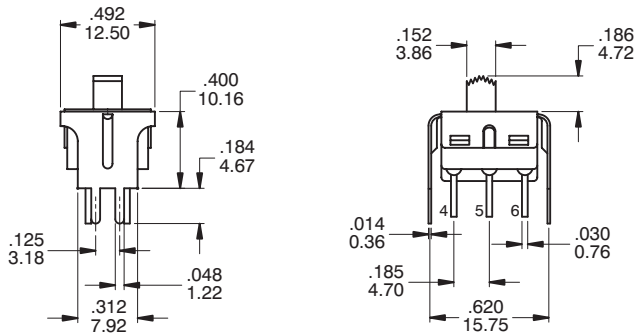
P.C. MOUNTING



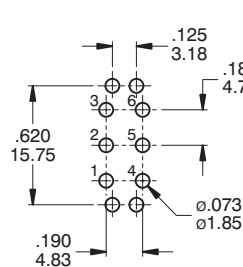
SPDT

Part No. Shown : 5MS1S12AVS2QE

VS2



P.C. MOUNTING

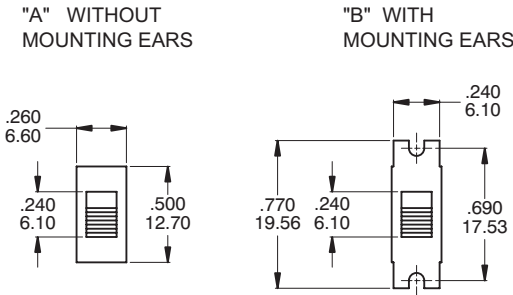


DPDT

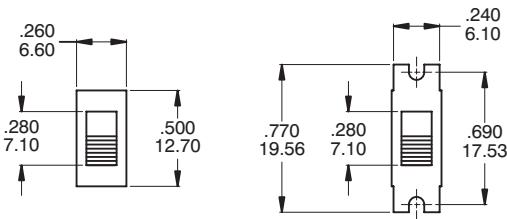
Part No. Shown : 5MD1S12AVS2QE

MOUNTING EARS / PANEL MOUNTING

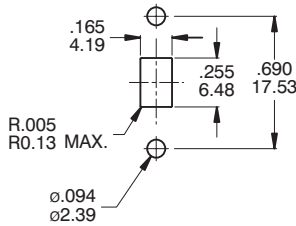
MOUNTING EARS



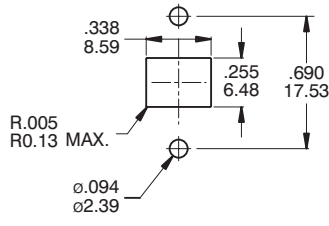
THREE POSITIONS ONLY



PANEL MOUNTING

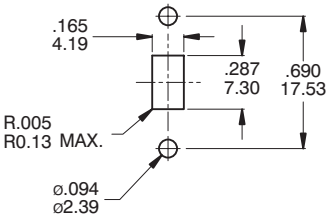


For S0,S1,S2,S3,S4



For S5 ONLY

THREE POSITIONS ONLY



For S0,S1,S2,S3,S4

CONTACT MATERIAL OPTIONS

	CONTACT MATERIAL	TERMINAL PLATING	RATINGS
Q	Silver	Q = Silver	5 Amps with resistant load @ 120VAC or 28VDC 2 Amps with resistant load @ 250VA
S		S = Silver,pure - tin	
C	Gold over Silver	C = Gold over silver	
K		K = Gold over silver,pure - tin	
R	Gold	R = Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)
G		G = Gold,pure - tin	



SOLDERING PROCESSES

MANUAL SOLDERING : Use soldering iron of 30 watts, controlled st 350°C
approximately 5 seconds while applying solder.

WAVE SOLDERING : Recommended Soldering Temperature : $260 \pm 5^{\circ}\text{C}$
Duration of Solder Immersion : 5 ± 1 seconds
(PCB is 1.6mm in thickness)

SOLDERING : Vapor phase

