

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material.

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

CONTACT RESISTANCE: 20mΩ max. initial @ 2-4VDC
100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000MΩ min.

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

OPERATING TEMPERATURE: -30°C to 85°C.

MATERIALS

CASE & BUSHING : Glass filled nylon 6/6,flame retardant,
heat stabilized (UL94V-0).

ACTUATOR: Nylon,black std.Internal O-ring seal standard
with all actuators.

SWITCH SUPPORT: Brass or steel,tin plated.

TERMINAL/CONTACT: Silver or gold plated copper alloy. (See Page 79)

HOW TO ORDER

MODEL NO. ACTUATOR FRAME COLOR ACTUATOR COLOR CAP MARKING TERMINATIONS TERMINAL MATERIAL SEAL ROHS SOLDERING

See below

MODEL NO. ACTUATOR

4AS1 SP On-None-On R1 (STD) Rocker, 7.62 wide

4AS2 SP On-None-Mom R2 (STD) Rocker, 5.84 wide

4AS3 SP On-Off-On R4 (STD) Rocker, 5.80 wide

4AS4 SP Mom-Off-Mom

4AS5 SP On-Off-Mom

4AS6 SP Off-None-On

4AD1 DP On-None-On

4AD2 DP On-None-Mom

4AD3 DP On-Off -On

4AD6 DP On-On-On

See below

ACTUATOR COLOR

ITEM NO	COLOR
1	White
2	Black (Std)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

See below

CAP MARKING

1	○ —
2	○ I
5	← →
6	I O II
7	— •
8	⊗ I
9	ON/OFF
F	⊗ —

See below

TERMINATIONS

M1 Solder Lug

M2 PC thru-hole

M5 wire wrap

M6 Right angle, PC thru-hole

M6N Right angle, snap-in, PC thru-hole

M7 Vertical right angle, PC thru-hole

M7N Vertical right angle, snap-in, PC thru-hole

VS2 8.94 high, V-bracket

V2N 8.94 high, snap-in V-bracket

TERMINAL MATERIAL

Q Silver

R Gold

G Gold,pure-tin

S Silver,pure-tin

C Gold over silver

K Gold over silver,pure-tin

SEAL

E EPOXY (std)

See below









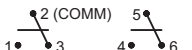

ROHS SOLDERING

□ RoHS Compliant

S RoHS & Lead Free

F Halogen Free+RoHS +REACH

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	Q24A11	4AS1	ON	NONE	ON	2-3 	N/A	2-1 
	Q24A12	4AS2	ON	NONE	MOM		OPEN	
	Q24A13	4AS3	ON	OFF	ON			
	Q24A14	4AS4	MOM	OFF	MOM			
	Q24A15	4AS5	ON	OFF	MOM			
	Q24A16	4AS6	OFF	NONE	ON	OPEN	N/A	3-1
DP	Q24A21	4AD1	ON	NONE	ON	2-3,5-6 	N/A	2-1,5-4 
	Q24A22	4AD2	ON	NONE	MOM		OPEN	
	Q24A23	4AD3	ON	OFF	ON			
	Q24A26	4AD6	ON	ON	ON			

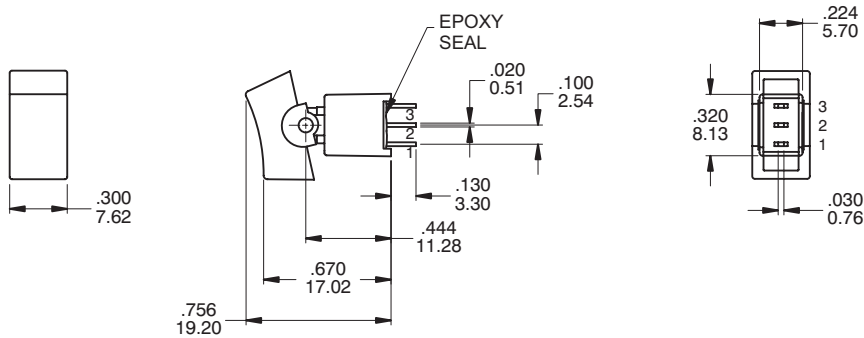
MOM=MOMENTARY

POLE OPTIONS



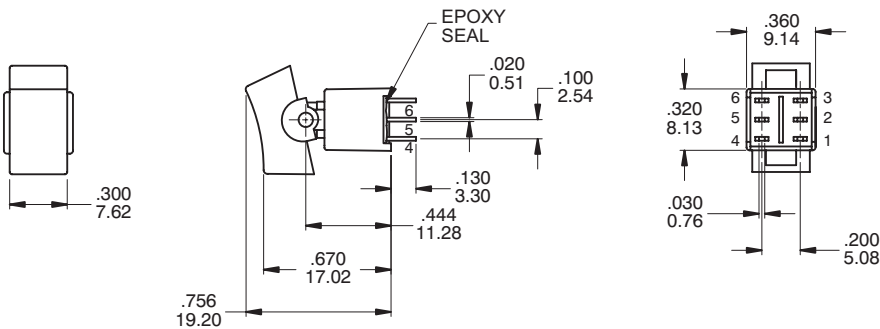
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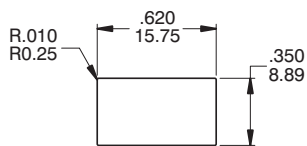
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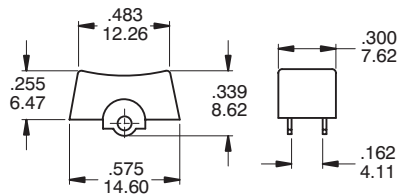


ACTUATOR OPTIONS - PANEL MOUNT

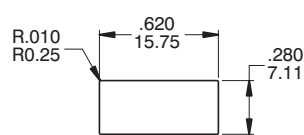
R1



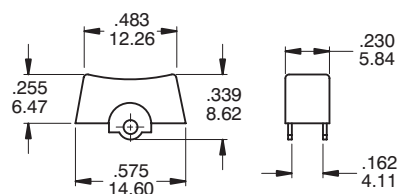
PANEL MOUNTING - R1



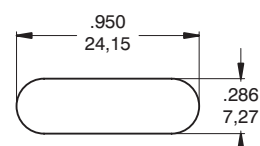
R2



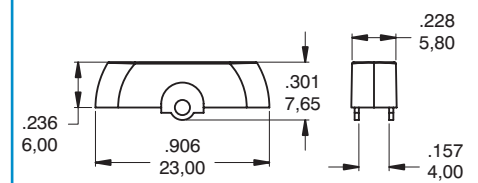
PANEL MOUNTING - R2



R4

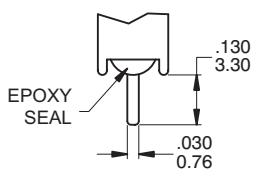


PANEL MOUNTING - R4

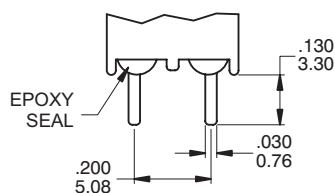


TERMINATION OPTIONS

M2 P.C. MOUNT

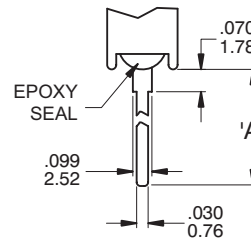


SP

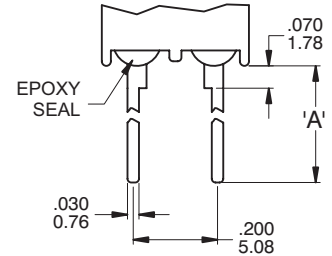


DP

M5 WIRE WEAP



SP



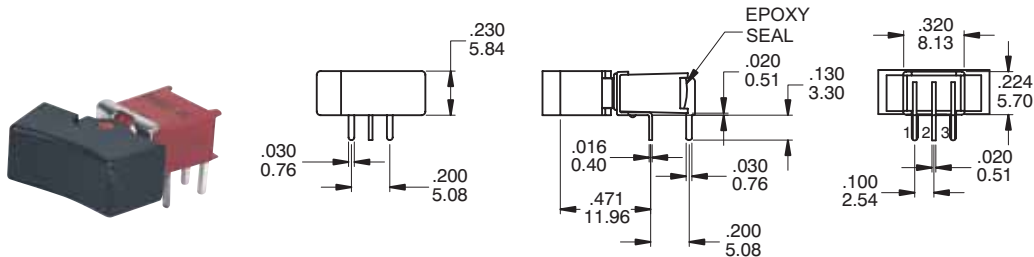
DP

OTHER TERMINATION OPTIONS

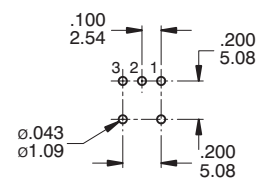
- | | |
|-----|-----------------------------|
| M6 | RIGHT ANGLE P.C. MOUNT |
| M7 | RIGHT ANGLE P.C. MOUNT |
| VS2 | VERTICAL BRACKET P.C. MOUNT |
| VS3 | VERTICAL BRACKET P.C. MOUNT |

OPTION CODE	DIM. 'A'
M5-1	.614 (15.60)
M5-2	.236 (6.00)

M6



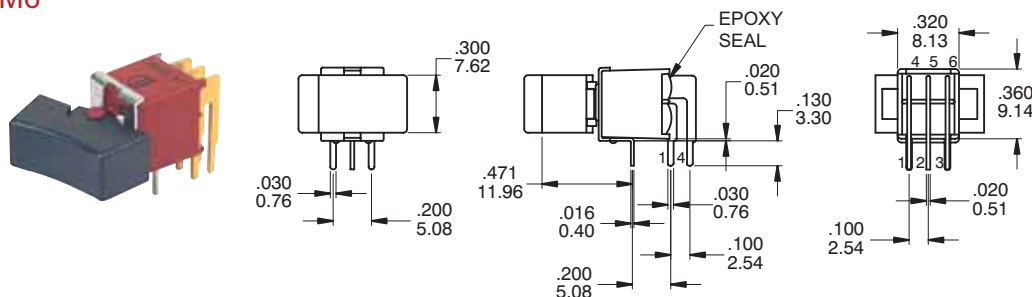
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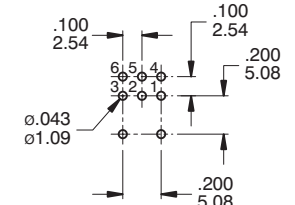
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M6



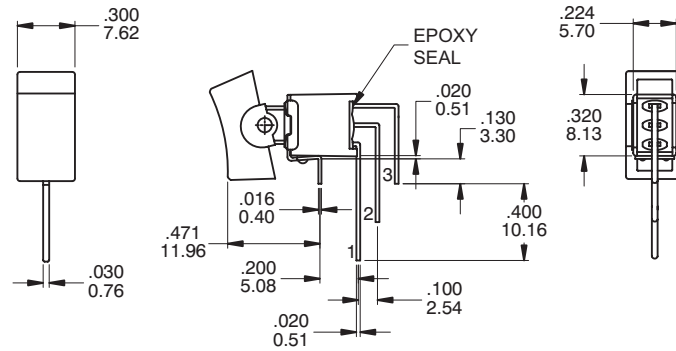
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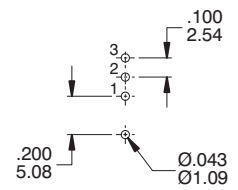
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M7



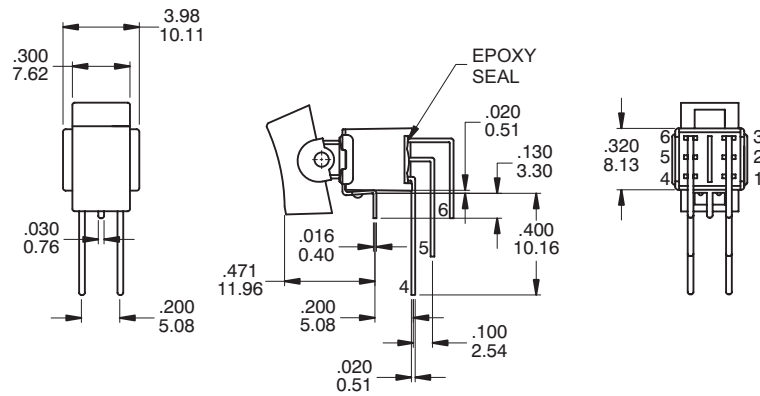
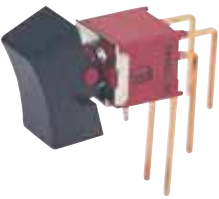
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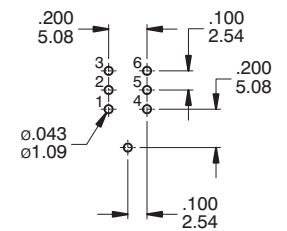
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Part No. Shown : 4AS1R12M7QE

M7



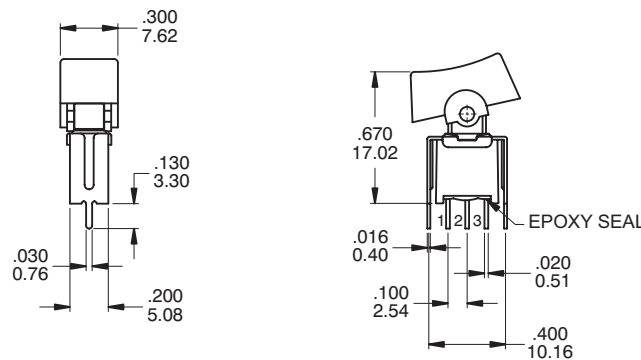
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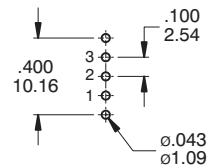
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VS2



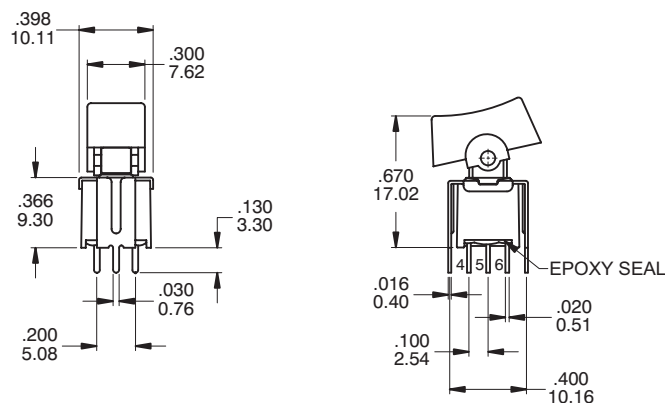
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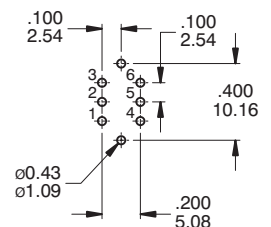
SPDT

Part No. Shown : 4AS1R12VS2RE

VS2



P.C. MOUNTING

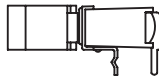
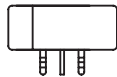


DPDT

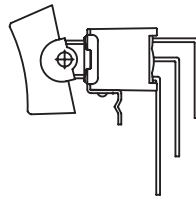
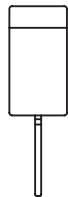
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SNAP-IM TERMINATION OPTIONS

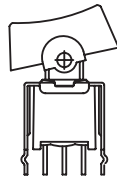
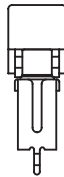
M6N



M7N



V2N



CONTACT MATERIAL OPTIONS

	CONTACT MATERIAL	TERMINAL PLATING	RATINGS
Q	Silver	Q = Gold flash over silver	3 Amps with resistant load @ 120VAC or 28VDC 1 Amps with resistant load @ 250VA
S		S = Gold flash over 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	



IP 67
ACCORDING TO
EN 60529:1991+A1:2001
IEC 60529:2001

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

SOLDERING : Vapor phase

