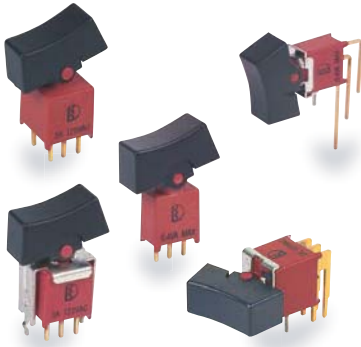




IP 67
ACCORDING TO
EN 60529:1991+A1:2001
IEC 60029:2001

CUL US
E 187490

RoHS
compliant

Pb
lead-free

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See Page 73.

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: 1,000 MΩ min.

DIELECTRIC STRENGTH: 1,000 Vrms min.@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 73)

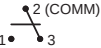
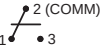
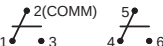
HOW TO ORDER

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

Model NO. 4AS1 SP On-None-On 4AS2 SP On-None-Mom. 4AS3 SP On-Off-On 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	Actuator R1 (STD) Rocker, 7.62 wide R2 (STD) Rocker, 5.84 wide R4 Rocker 5.80 wide	Actuator color <table border="1"> <thead> <tr> <th>ITEM NO</th> <th>COLOR</th> </tr> </thead> <tbody> <tr><td>1</td><td>White</td></tr> <tr><td>2</td><td>Black (Std)</td></tr> <tr><td>3</td><td>Red</td></tr> <tr><td>4</td><td>Orange</td></tr> <tr><td>5</td><td>Yellow</td></tr> <tr><td>6</td><td>Green</td></tr> <tr><td>7</td><td>Blue</td></tr> <tr><td>8</td><td>Brown</td></tr> <tr><td>9</td><td>Gray</td></tr> </tbody> </table>	ITEM NO	COLOR	1	White	2	Black (Std)	3	Red	4	Orange	5	Yellow	6	Green	7	Blue	8	Brown	9	Gray	Cap marking <table border="1"> <tbody> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>5</td><td></td></tr> <tr><td>6</td><td></td></tr> <tr><td>7</td><td></td></tr> <tr><td>8</td><td></td></tr> <tr><td>9</td><td></td></tr> <tr><td>J</td><td></td></tr> </tbody> </table>	1		2		5		6		7		8		9		J		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 Gold flash over silver R Gold G Gold, pure-tin S Gold flash over silver, pure-tin C Gold over silver K Gold over silver, pure-tin	Seal E EPOXY (std)	RoHS soldering □ RoHS Compliant S RoHS & Lead Free F Halogen Free+RoHS
ITEM NO	COLOR																																										
1	White																																										
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7																																											
8																																											
9																																											
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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	OPEN			
	Q24A15	4AS5	ON	OFF	MOM				
	Q24A16	4AS6	OFF	NONE	ON			OPEN	N/A
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	2-3,5-6	2-3,5-4	2-1,5-4

MOM=MOMENTARY

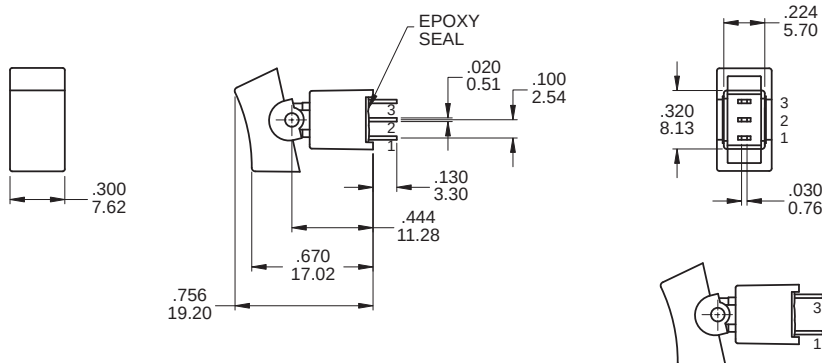
▲ Please check the availability in advance before order

POLE OPTIONS



SPDT

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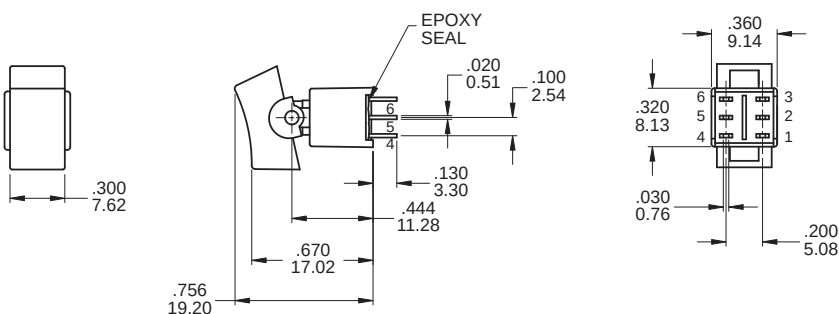


4AS6 Models : Omit 2nd terminal



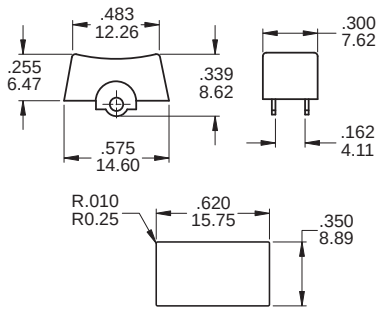
DPDT

Part No. Shown : 4AD1R102M2QE



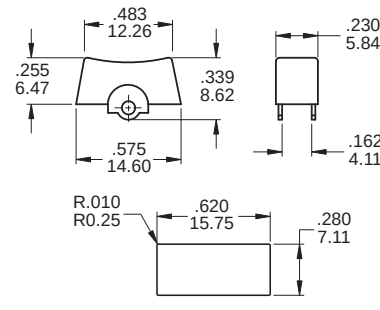
ACTUATOR OPTIONS - PANEL MOUNT

R1



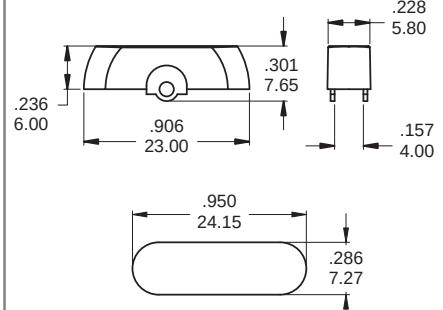
PANEL MOUNTING - R1

R2



PANEL MOUNTING - R2

R4

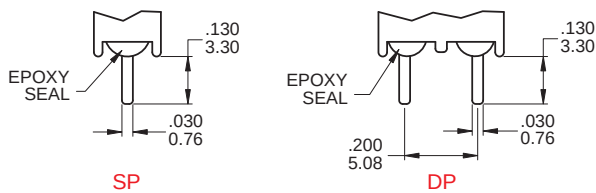


PANEL MOUNTING - R4

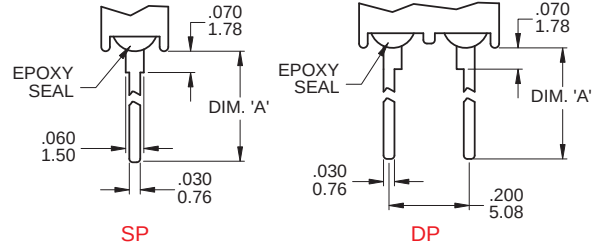


TERMINATION OPTIONS

M2 PC Thru-hole



M5 Wire Wrap

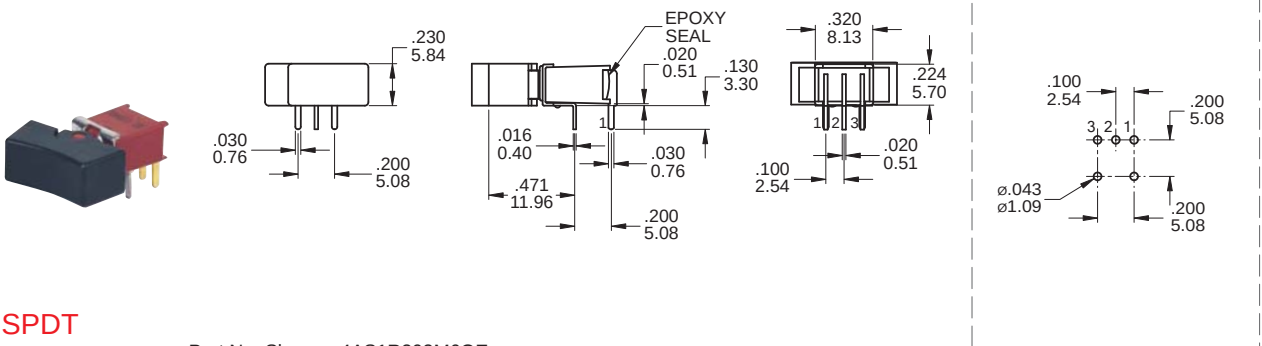


OTHER TERMINATION OPTIONS

- 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)

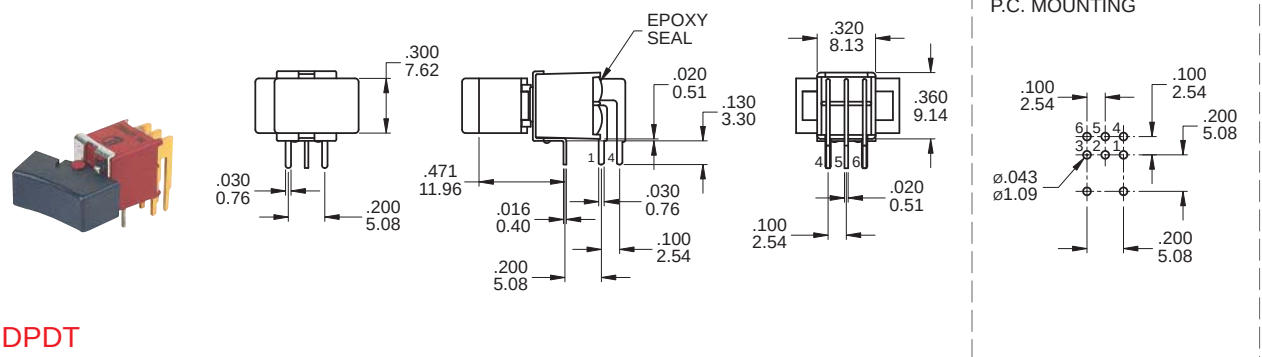
M6



SPDT

Part No. Shown : 4AS1R202M6QE

M6

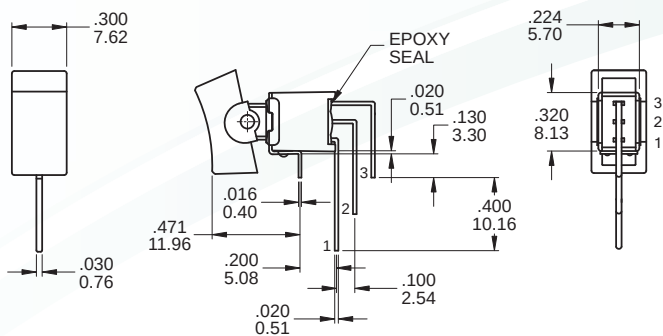


DPDT

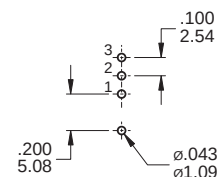
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M7



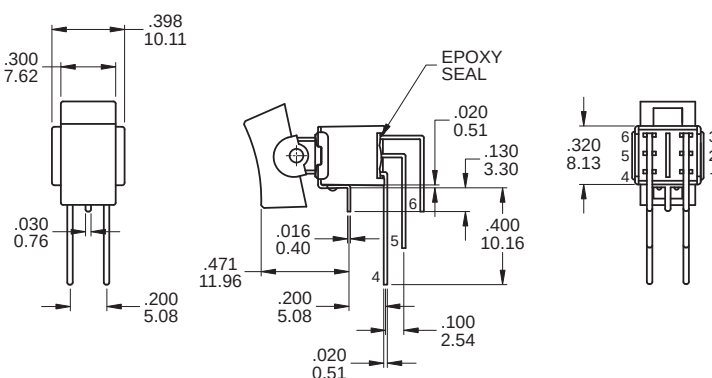
P.C. MOUNTING



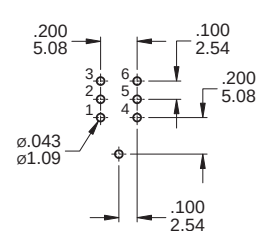
SPDT

Part No. Shown : 4AS1R102M7RE

M7



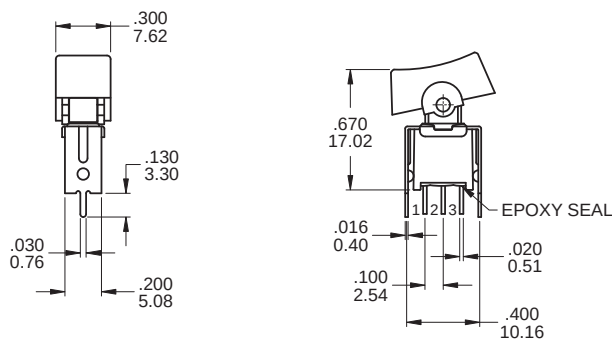
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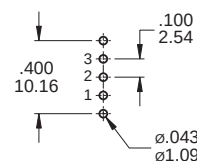
DPDT

Part No. Shown : 4AD1R102M7RE

VS2



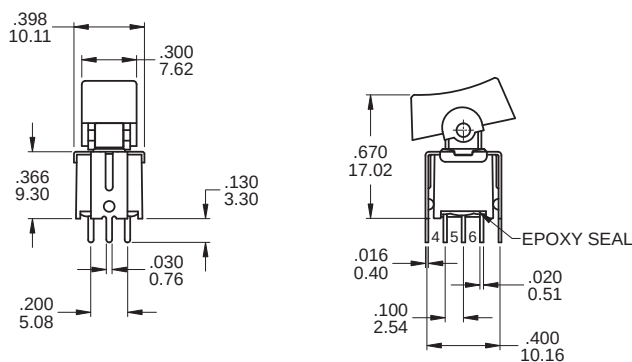
P.C. MOUNTING



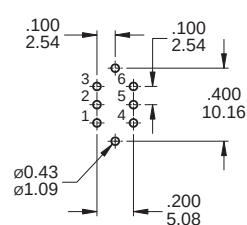
SPDT

Part No. Shown : 4AS1R102VS2RE

VS2



P.C. MOUNTING

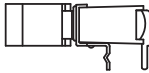
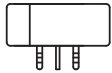


DPDT

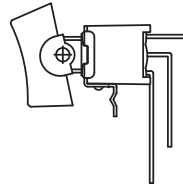
Part No. Shown : 4AD1R102VS2QE

SNAP-IN TERMINATION OPTIONS

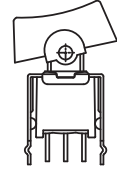
M6N



M7N



V2N



CONTACT MATERIAL OPTIONS

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

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: Max 5 sec. (PCB is 1.6mm in thickness)

