

R2 R1



Specifications:

Contact rating : 5A with resistant load at 120V ac or 28V dc

2A with resistant load at 250V ac.

Mechanical life : 40,000 make-and-break cycles.

 $\mbox{Maximum contact resistance} \qquad : 10 \mbox{m} \Omega \mbox{ initial at 2 to 4V dc 100 \mbox{mA for silver plated contacts}}.$

Minimum insulation resistance : $1000M\Omega$.

Dielectric strength : 1000Vrms at sea level. Operating temperature : -30°C to 85°C.

Materials

Case : Diallyl phthalate (DAP).
Actuator : Nylon, black standard.
Bushing : Brass, nickel plated.
Housing : Stainless steel.
Switch support : Brass, tin-plated.
Terminal/contact : Brass with silver plated.

Switch Function

		Switch Function			Connected Terminals/Schematic		
Number of Poles	Model Number	Position 1	Position 2	Position 3	Position 1	Position 2	Position 3
		*	*	*	*	*	7
	3MS1		None	On		NI/A	
SP	3MS2	On	None	MOM	2-3	N/A	2 - 1
	3MS3			On	4 2 (Comm)		2(Comm) و
	3MS4	MOM	Off	MOM	1• 3	Open	1 •3
	3MS5	On		IVIOIVI			
	3MD1		None	On	0.05.0	N/A	
DP	3MD2	On	None	MOM	2-3,5-6	IN/A	2 - 1, 5 - 4
	3MD3		Off	On	2 (Comm) 5 4 6	Open	•2(Comm) 5•
	3MD4	MOM		MOM			1 4 16
	3MD5	On		IVIOIVI			13 40

MOM = Momentary

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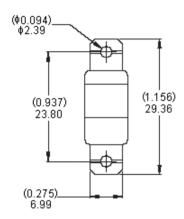


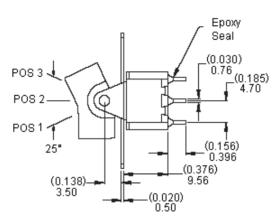
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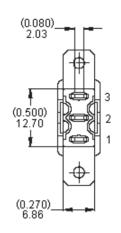


Pole Options

3MS1

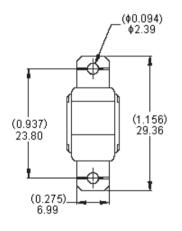


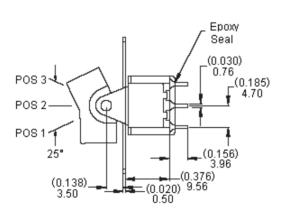


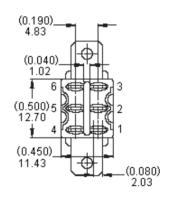


Dimensions: Millimetres (Inches)

3MD1



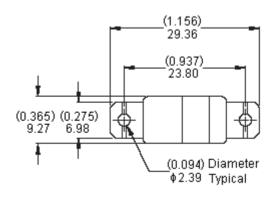


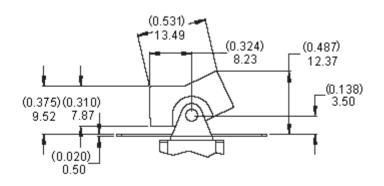


Dimensions: Millimetres (Inches)

Actuator Options for Panel Mount Only

R1





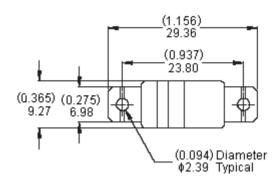
Dimensions: Millimetres (Inches)

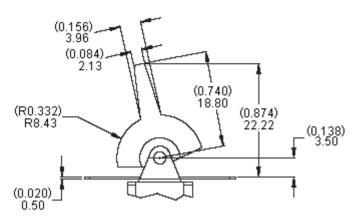
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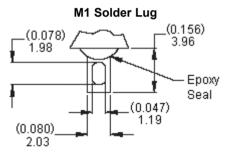
Actuator Options for Panel Mount Only R2





Dimensions: Millimetres (Inches)

Termination Options



Thickness (0.030) 0.76

Dimensions: Millimetres (Inches)

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.

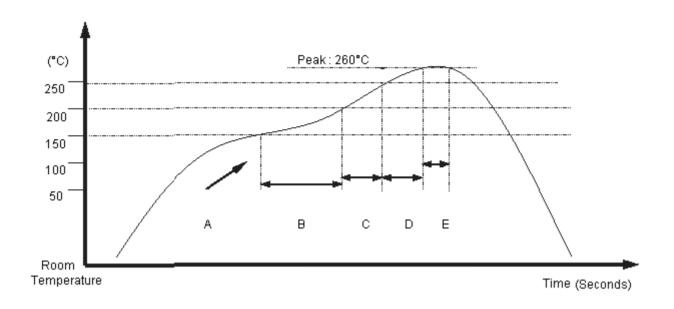
Duration of solder immersion : 5 ± 1 seconds (PCB is 1.6mm in thickness).

Soldering : Vapour phase.

Temperature Profile

Zone	Room Temperature (°C)	Time (Seconds)	
Pre-heat (A)	150	Minimum 120	
Soak (B)	180 to 200	Minimum 150	
Peak (C)	200 to 235	Minimum 30	
Peak (D)	235 to 260	Minimum 40	
Peak (E)	260	Maximum 10	



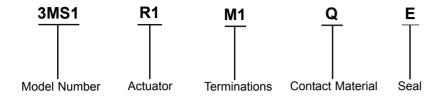


Part Number Table

Description	Part Number		
Switch, SPDT	3MS1R1M1QE		
Switch, DPDT	3MD1R1M1QE		
Switch, SPDT	3MS1R2M1QE		
Switch, DPDT	3MD1R2M1QE		
	3MS1M1QE		
	3MS3M1QE		
Switch Body, SPDT	3MS4M1QE		
	3MS5M1QE		
	3MS2M1QE		
	3MD1M1QE		
	3MD3M1QE		
Switch Body, DPDT	3MD4M1QE		
	3MD5M1QE		
	3MD2M1QE		



Part Number Explanation:



Model Number : 3MS1 = SP On-None-On, 3MD1 = DP On-None-On, 3MS3 = SP On-Off-On, 3MS4 = SP MOM-Off-MOM,

3MS5 = SP On-Off-MOM, 3MS2 = SP On-None-MOM, 3MD3 = DP On-Off-On,

3MD4 = DP MOM-Off-MOM, 3MD5 = DP On-Off-MOM and 3MD2 = DP On-None-MOM.

Actuator : R1 = 13.49 Long Rocker - Support and R2 = Lever - Support.

Terminations : M1 = Solder Lug.
Contact Material : Q = Silver.
Seal : E = Epoxy (std).

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