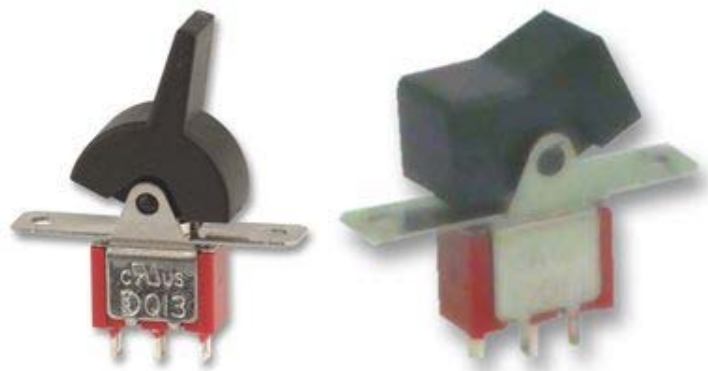


Rocker and Paddle Switches



R2

R1



Specifications:

Contact rating	: 5 A with resistant load at 120 V ac or 28 V dc 2 A with resistant load at 250 V ac
Mechanical life	: 50,000 make-and-break cycles
Maximum contact resistance	: 10 mΩ initial at 2 to 4V dc 100mA for silver plated contacts
Minimum insulation resistance	: 1,000 MΩ
Dielectric strength	: 1,000 Vrms 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

Number of Poles	Model Number	Switch Function			Connected Terminals/Schematic		
		Position 1	Position 2	Position 3	Position 1	Position 2	Position 3
SP	3MS1	On	None	On	2 - 3	N/A	2 - 1
	3MS2			MOM			
	3MS3	MOM	Off	On		Open	
	3MS4			MOM			
	3MS5			On			
DP	3MD1	On	None	On	2 - 3, 5 - 6	N/A	2 - 1, 5 - 4
	3MD2			MOM			
	3MD3	MOM	Off	On		Open	
	3MD4			MOM			
	3MD5			On			

MOM = Momentary

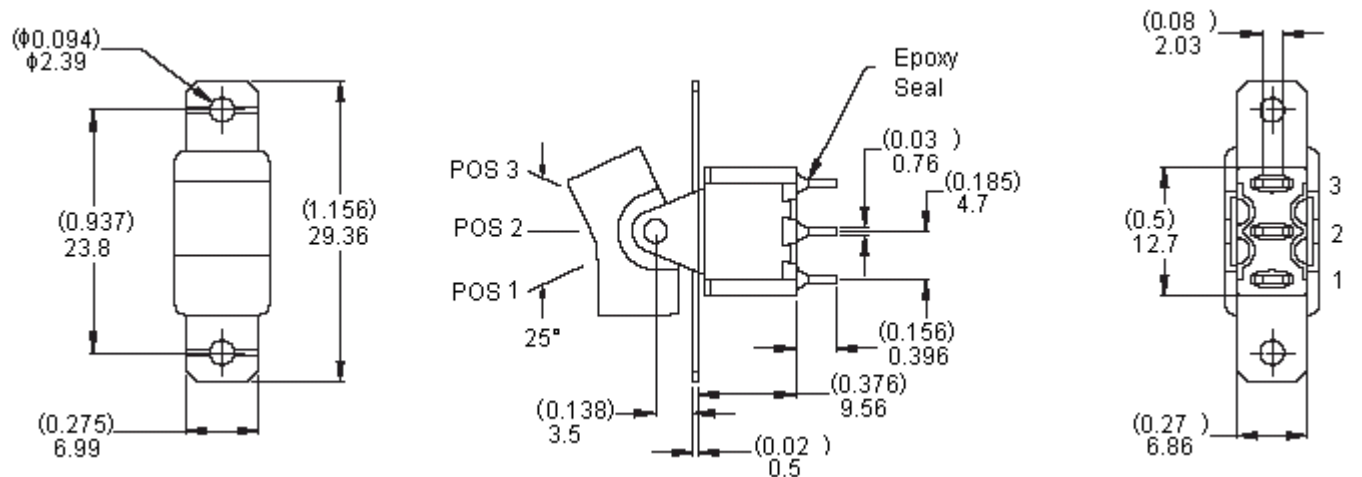


Rocker and Paddle Switches



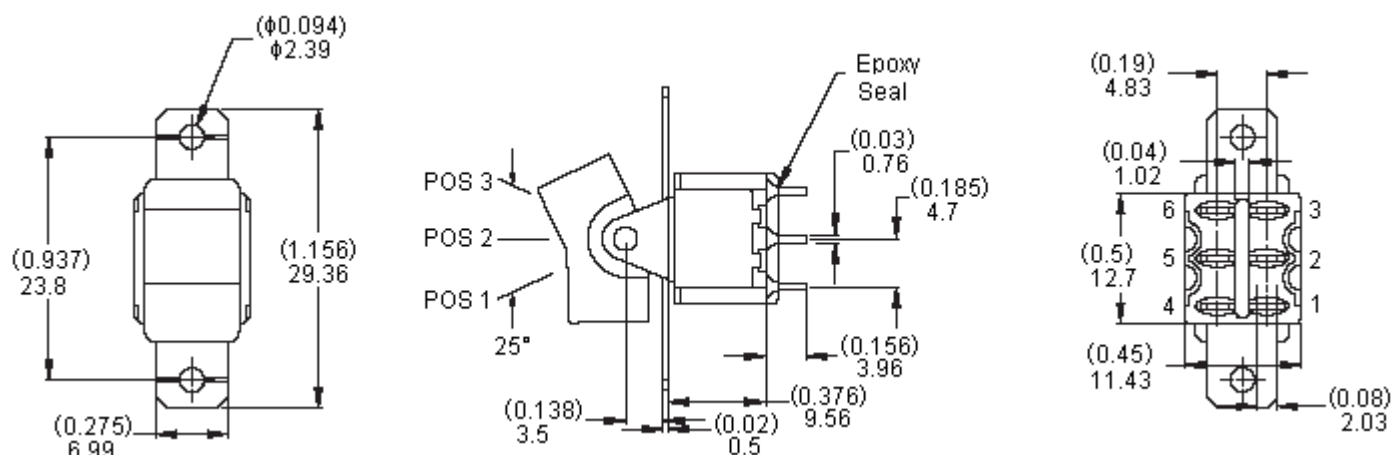
Pole Options

3MS1



Dimensions: Millimetres (Inches)

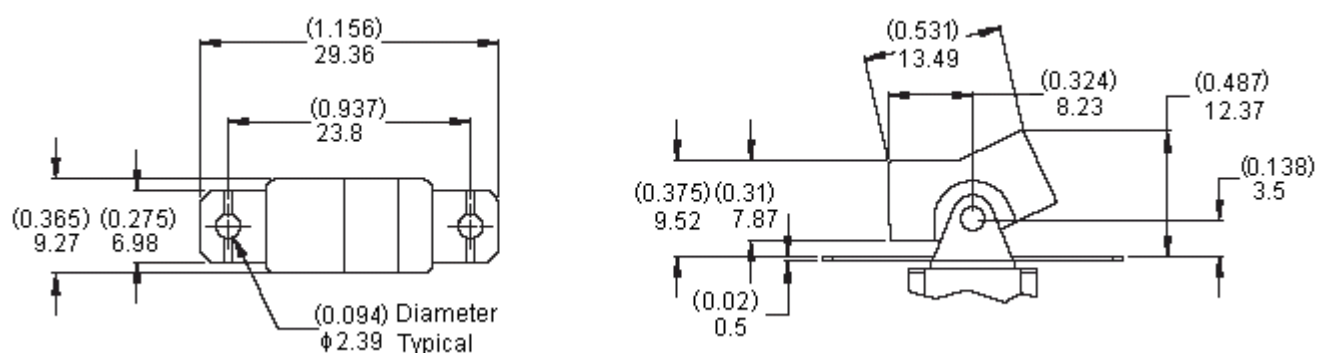
3MD1



Dimensions: Millimetres (Inches)

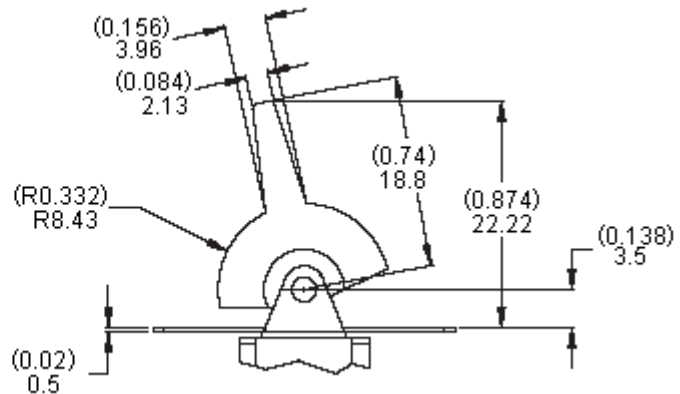
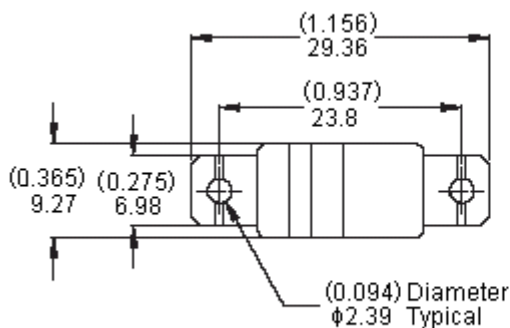
Actuator Options for Panel Mount Only

R1



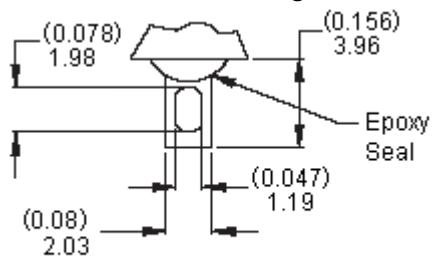
Dimensions: Millimetres (Inches)

Actuator Options for Panel Mount Only R2



Termination Options

M1 Solder Lug



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

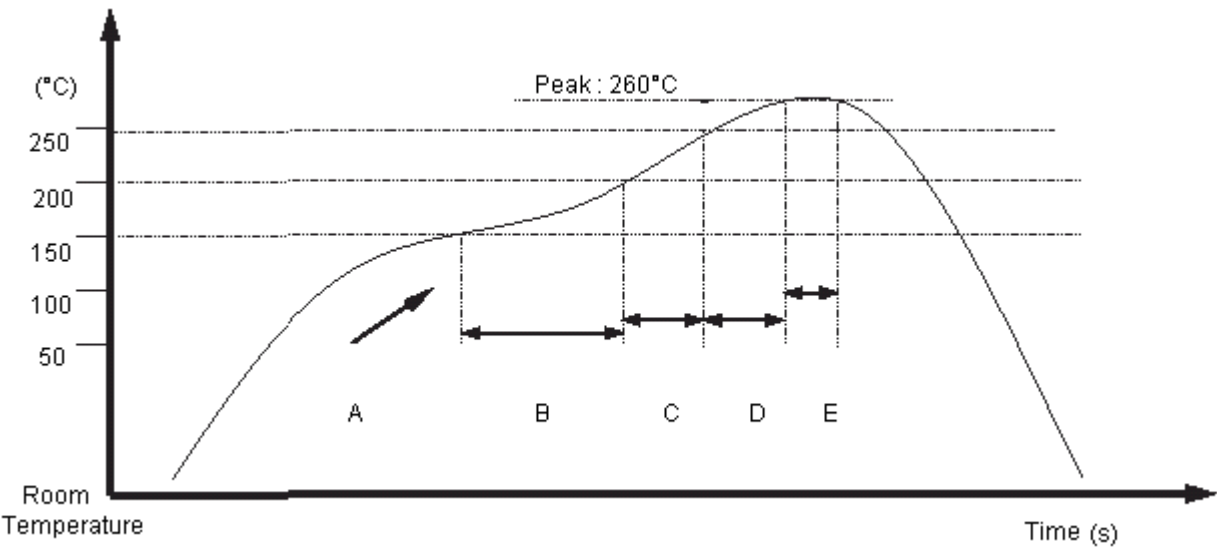
Wave soldering : Recommended soldering temperature : 260 ±5°C
Duration of solder immersion : 5 ±1 seconds (PCB is 1.6 mm in thickness)

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

Rocker and Paddle Switches



Part Number Table

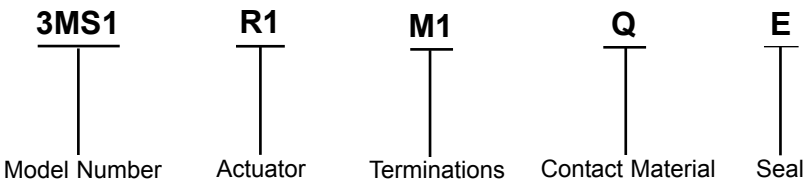
Description	Part Number
Switch, SPDT	3MS1R1M1QE
Switch, DPDT	3MD1R1M1QE
Switch, SPDT	3MS1R2M1QE
Switch, DPDT	3MD1R2M1QE
Switch Body, SPDT	3MS1M1QE
	3MS3M1QE
	3MS4M1QE
	3MS5M1QE
	3MS2M1QE
Switch Body, DPDT	3MD1M1QE
	3MD3M1QE
	3MD4M1QE
	3MD5M1QE
	3MD2M1QE



Rocker and Paddle Switches



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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