

Process Sealed Sub-Miniature Rocker

Specifications

Electrical Ratings	3A @ 120VAC, 28VDC 1.5A @ 250VAC See Contact Options	Dielectric Strength	1000Vrms min
		Insulation Resistance	>1000MΩ min
Electrical Life	30,000 cycles typical	Operating Temperature	-40°C to 85°C
Contact Resistance	<20mΩ initial @ 2-4VDC, 100mA	Storage Temperature	-40°C to 85°C
		Sealing Degree	IP67

Materials

Actuator	6/6 Nylon, Glass Filled, Flame Retardant Heat Stabilized, UL94V-0
Housing	6/6 Nylon, Glass Filled, Flame Retardant Heat Stabilized, UL94V-0
Support Bracket	Brass, Tin Plated
Contacts	Copper Alloy, Silver Plated
Terminals	Copper Alloy, Silver Plated

Process Sealed Sub-Miniature Rocker

Ordering Information

1. Series	BSR	1	3	R1	2			C	Q
BSR									
2. Number of Poles 1 = SPDT 2 = DPDT									
3. Switch Function 1 = ON-NONE-ON 2 = ON-NONE-(ON) 3 = ON-OFF-ON 4 = (ON)-OFF-(ON) **Only available in SPDT 5 = ON-OFF-(ON) **Only available in SPDT									
4. Actuator R1 = Rocker, PC mount R2 = Rocker, PC mount									
5. Actuator Color 1 = White 2 = Black 3 = Red									
6. Actuator Marking Style Blank = No Marking A B C									
7. Actuator Marking Color Blank = No marking W = White, standard B = Black									
8. Terminals C = PC pin H = Horizontal mount, right angle PC pin; HS = Snap-in V = Vertical mount, right angle PC pin; VS = Snap-in A5 = PC pin with support bracket; A5S = Snap-in support bracket									
9. Contacts Q = Silver plated R = Gold plated G = Gold over Silver plated									

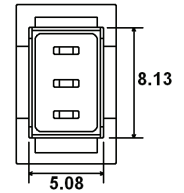
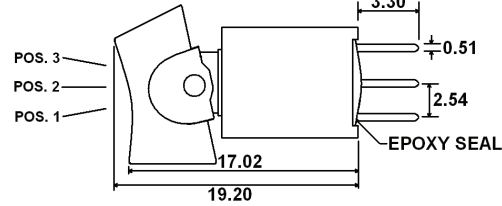
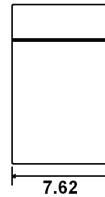
Switch Function



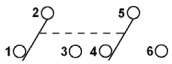
SPDT



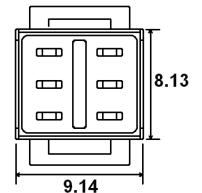
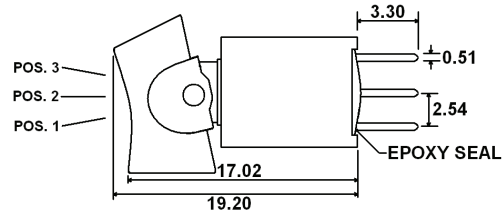
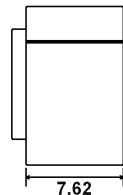
Function	Rocker Position		
1	ON	NONE	ON
2	ON	NONE	(ON)
3	ON	OFF	ON
4	(ON)	OFF	(ON)
5	ON	OFF	(ON)
Terminals	2-3	-	2-1



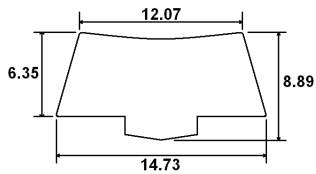
DPDT



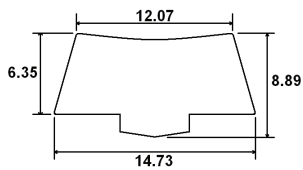
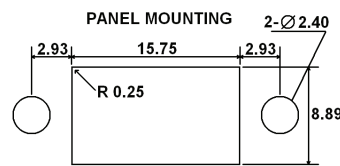
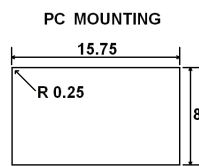
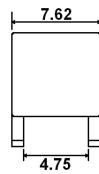
Function	Rocker Position		
1	ON	NONE	ON
2	ON	NONE	(ON)
3	ON	OFF	ON
Terminals	2-3	-	2-1



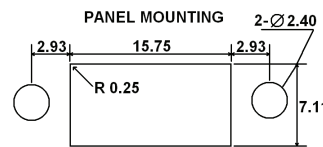
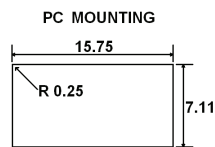
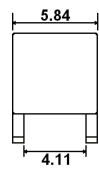
Actuator Options



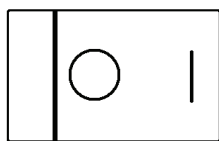
R1



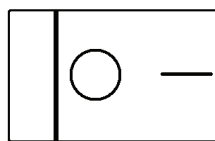
R2



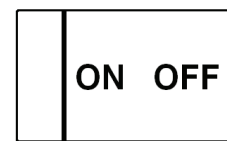
Actuator Markings



A

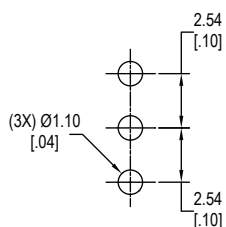
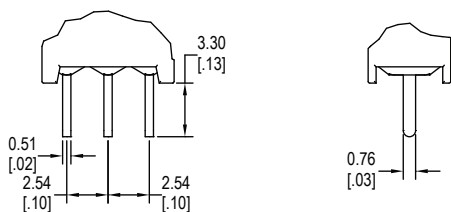


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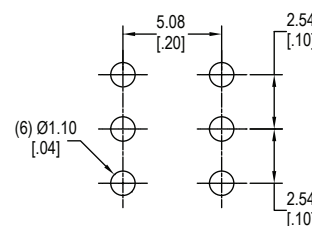
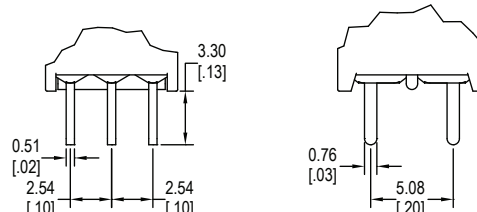


C

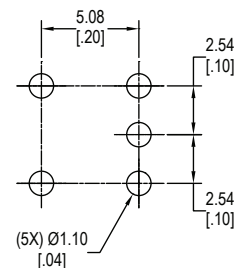
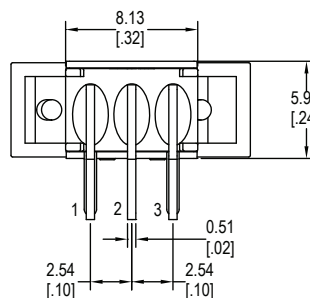
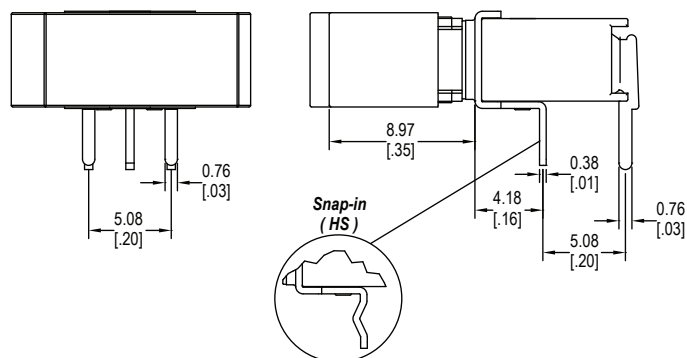
Terminal Options



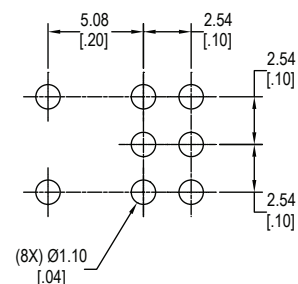
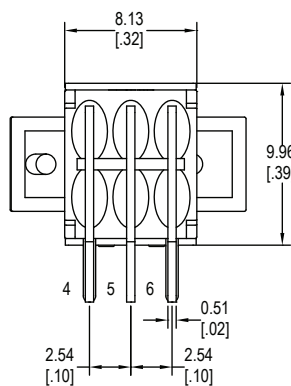
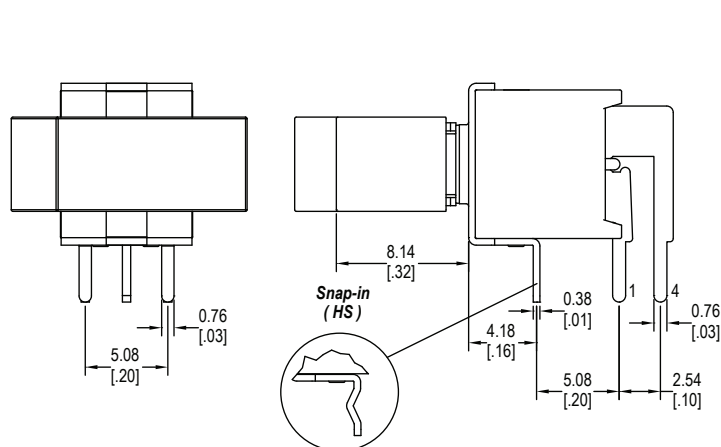
C SPDT



D DPDT



H (HS - Snap In) = Horizontal mount, right angle PC pins, single pole



H (HS - Snap In) = Horizontal mount, right angle PC pins, double pole

Technical drawing of the Snap-in (VS) assembly, showing three views: side, front, and top. Dimensions are provided in inches and millimeters.

Side View:

- Base width: 0.76 [0.03]

Front View:

- Component 1: 5.08 [0.20]
- Component 2: 2.54 [0.10]
- Component 3: 2.54 [0.10]
- Base width: 0.76 [0.03]
- Internal dimensions: 4.18 [0.16], 0.41 [0.02], 0.51 [0.02]
- Overall width: 8.14 [0.32]

Top View:

- Base width: 5.98 [0.24]
- Base length: 2.54 [0.10]
- Distance between holes: 5.08 [0.20]
- Hole diameter: (4X) Ø1.10 [0.04]

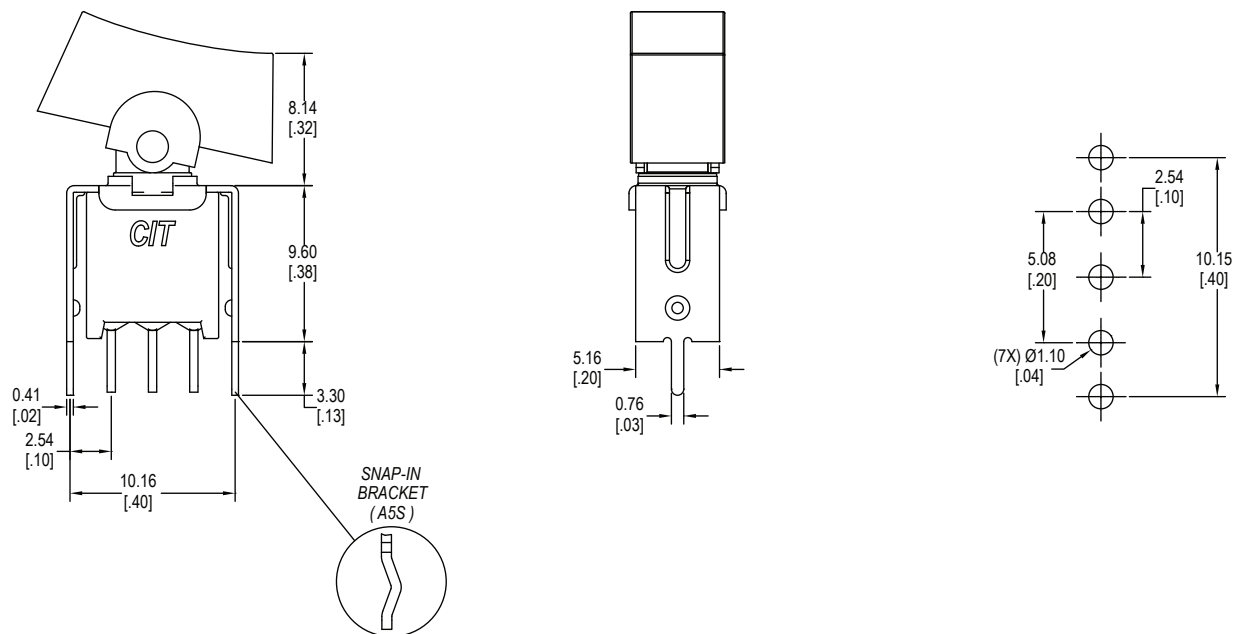
Detail View (Snap-in VS):

- Shows the internal structure of the snap-in component.

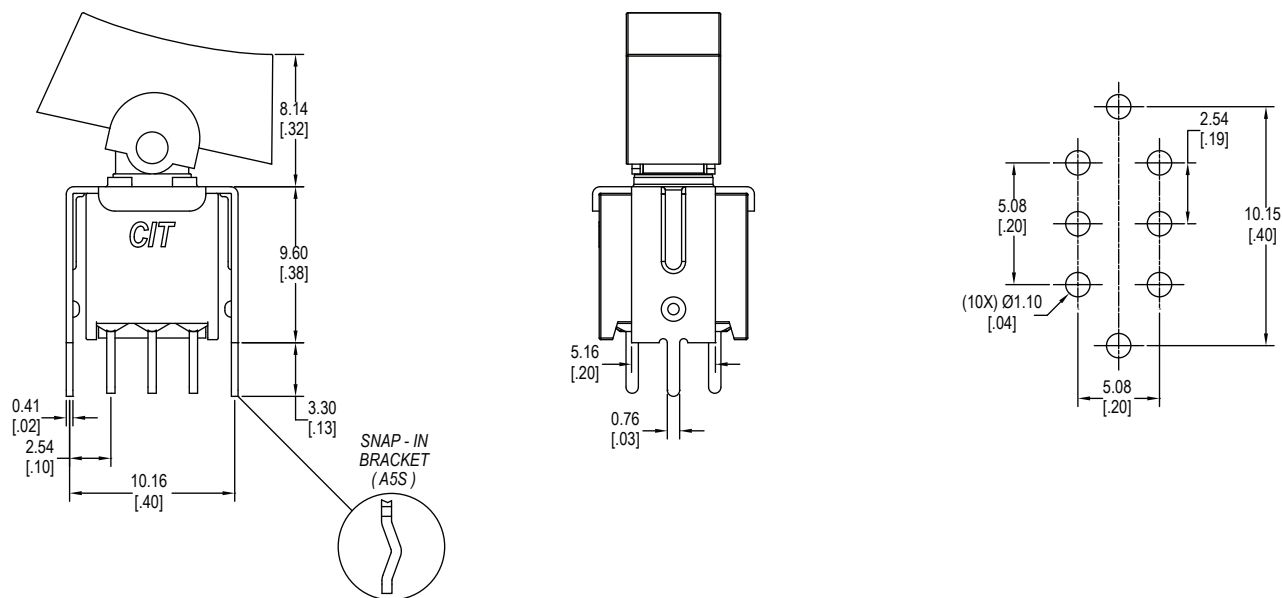
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Terminal Options



A5 (A5S - Snap In support bracket) = PC pins with support bracker, single pole



A5 (A5S - Snap In support bracket) = PC pins with support bracket, double pole

Contact Options

Designator	Contact Material	Terminal Material	Electrical Ratings
Q	Silver Plating	Silver Plating	3A @ 120VAC, 28VDC; 1.5A @ 250VAC
R	Gold over Nickel Plating	Gold over Nickel Plating	0.4VA max @ 20VAC or VDC max
G	Gold over Silver Plating	Gold over Silver Plateing	0.4VA max @ 20VAC or VDC max or 3A @ 120VAC, 28VDC; 1.5A @ 250VAC