



1S1-Series Sub-Miniature Rocker Switch

Specifications

Contact Rating refer to ordering scheme

Electrical Life 1S1-Series: 30,000 make & break

cycles @ full load

1SS & 1SM-Series: 50,000 make &

break cycles @ full load

Contact Resistance. 20 m Ω max. initial @ 2-4 VDC

100mA for both silver & gold plated

contacts.

Insulation Resistance . . . 1000 M Ω min.

Dielectric Strength 1500 Volts RMS @ sea level

Operating Temperature . . . -30°C to +85°C

Index of Protection 1SS & 1SM-Series: IP67 Solder Heat Resistance. . . MIL-STD-202. Method 210

Actuator Travel 25°

Materials

Case all UL94 V-0

1S1-Series: Dially phthalate (DAP) 1SS-Series: Glass filled nylon 6/6, flame retardant, heat stabilized 1SM-Series: Glass filled nylon 4/6, flame retardant, heat stabilized

. 1S1-Series: Nylon (UL 94V-0)

1SS & 1SM-Series: Nylon, black standard, internal o-ring sealed

Bushing 1S1-Series: Brass, nickel plated

1SS-Series: Glass filled nylon 6/6, flame retardant, heat stabilized (UL

94V-0)

1SM-Series: Glass filled nylon 4/6, flame retardant, heat stabilized (UL

94V-0)

Switch Support 1S1 & 1SM-Series: Brass, tin plated

Terminal Seal Epoxy



1SM-Series Sealed Surface Mount Sub-Miniature Rocker Switch

1SS-Series

Rocker Switch

Sealed Sub-Miniature

1S1-Series Ordering Scheme



Poles



Circuit





Actuator Style







Termination



Contact



Seal

1 SERIES

1S1 Sub-Miniature Rocker Switch

2 POLES

MSP single pole - uses terminals 1, 2 & 3.
MDP double pole uses terminals 1,2, 3, 4, 5 & 6.

Series

3 CIRCUIT () - momentary

Switching Position: OPEN 2-1 5-4 2-3, 5-6 ŌŇ ON ON NONE (ON) ON

4 ACTUATOR STYLE

Small rocker Narrow black rocker

5 ACTUATOR COLOR

white orange blue black 5 yellow 8 brown 6 9 gray red areen Black, white and red are standard. Other colors available, consult factory. 6 TERMINATION M1

Solder Lug PCB M2 PC Mount, 90° horizontal PC Mount, 90° vertical PC Mount, U bracket, М6 **M7**

Actuator

Coloi

.620 mounting x .460 high

PC Mount, U bracket, .620 mounting x .630 high Snap-In, U bracket, M61

90° horizontal Snap-In, U bracket, 90° vertical M71 VS21 Snap-In, U bracket

7 CONTACT

Terminal Plating gold over silver³ Material Rating 3A@125VAC or 28VDC, Approvals G silver 1.5A @ 250VAC 0.4VA max. @20V max (AC/DC) 3A@125VAC or 28VDC, gold² silver¹ tin-lead tin-lead **UL CSA** 1.5A @ 250VAC 3A@125VAC or 28VDC, Q silver1 silver **UL CSA** 1.5A @ 250VAC R 0.4VA max. @20V max (AC/DC) gold² gold² NOTE:

Tin-lead option available with PC type terminations only.

Moveable contact & terminals: copper alloy, silver plated

Moveable contact & terminals: copper alloy with gold plate over nickel plate

Terminals: silver plated with outer layer in gold plating

Outer terminals: copper alloy with tin-lead over nickel plate

8 EPOXY SEAL epoxy seal



1SS-Series Ordering Scheme



Color

1 SERIES 1SS Sealed Sub-Miniature Rocker Switch				
2 POLES WMSP WMDP	single pole - uses terminals 1, 2 & 3. double pole uses terminals 1, 2, 3, 4, 5 & 6.			

3 CIRCUIT () - momentary					
	1 2 3 4 5	Switching P 2-3, 5-6 ON ON ON (ON) ON	OPEN OPEN NONE NONE OFF OFF OFF	2-1, 5-4 ON (ON) ON (ON) (ON)	

4 ACTUATOR STY R1 Sma	LE II rocker	R2	Narrow rocker	
5 ACTUATOR COL 1 white 2 black 3 red	.OR¹ 4 orang 5 yellov 6 greer	v I	7 blue 8 brown 9 gray	

6 TERMINATION				
M1	Solder Lug			
M2	PCB			
M6	PC Mount, 90° horizontal			
M7	PC Mount, 90° vertical			
VS2	PC Mount, U bracket, .620 mounting x .460 high			
M61	Snap-In, U bracket, 90° horizontal			
M71	Snap-In, U bracket, 90° vertical			
VS21	Snap-In, U bracket, .620 mounting x .460 high			

	7 (CONTACT					
، ا	G	Material silver ¹	Terminal Plating gold over silver ³	Rating 3A@125VAC or 28VDC, 1.5A @ 250VAC	IP67		
	K	gold²	tin-lead⁴	0.4VA max. @20V max (AC/DC)	IP67		
	Р	silver1	tin-lead⁴	3A@125VAC or 28VDC, 1.5A @ 250VAC	IP67		
ا	R	gold²	gold ²	0.4VA max. @20V max (AC/DC)	IP67		
ı	NOT	ΓE:		(*)			
	Standard G plating for sealed product.						
-	Tin-lead option available with PC type terminations only.						
1	1	Moveable	contact & terminals: of	copper alloy, silver plate			
	2 Moveable contact & terminals: copper alloy with gold plated over nickel plate						
	3 Terminals: silver plated with outer layer in gold plating						
۷	4	Outer term	ninals: copper alloy w	ith tin-lead over nickel plate			
8	8 EPOXY SEAL						

1SM-Series Ordering Scheme

R2



epoxy seal

5 TERMINATION

1 SERIES 1SM Sealed Surface Mount Sub-Miniature Rocker Switch				
2 POLES WMSP single pole - uses terminals 1, 2 & 3.				
3 CIRCUIT () - momentary				
1 2 3 4 5	Switching Po 2-3 ON ON ON (ON) ON	OPEN OPEN NONE NONE OFF OFF OFF	2-1 ON (ON) ON (ON) (ON)	
4 ACTUATOR STYLE				

Narrow black rocker

M6 S6 S7		Surface Mount, 90	0° flat - horizontal/side term 0° horizontal/back terms 0° vertical	ıs	
6 (CONTACT				
	Material	Terminal Plating	Rating		
G	silver1	gold over silver 3		IP67	
1		•	1.5A @ 250VAC		
K	gold²	tin-lead⁴	0.4VA max. @20V max	IP67	
l _			(AC/DC)		
P	silver1	tin-lead⁴	3A@125VAC or 28VDC,	IP67	
l a	silver1	silver¹	1.5A @ 250VAC 3A@125VAC or 28VDC.	IP67	
ا ن	Silver	Silver	1.5A @ 250VAC	11-07	
R	qold ²	gold ²	0.4VA max. @20V max	IP67	
l	gold	gold	(AC/DC)	07	
NO.	NOTE:				
Sta	andard G plating for sealed product. P&K for PC mount only.				
Tin-	n-lead option available with PC type terminations only.				
1	Moveable contact & terminals: copper alloy, silver plate				
2	3				
3	Terminals: silver plated with outer layer in gold plating				
4	Outer tern	ninals: copper alloy wi	th tin-lead over nickel plate		

G	Material silver ¹	Terminal Plating gold over silver ³	Rating 3A@125VAC or 28VDC,	IP67			
к	gold ²	tin-lead⁴	1.5A @ 250VAC 0.4VA max. @20V max	IP67			
٠.	gold	tiir ioaa	(AC/DC)	07			
Р	silver1	tin-lead⁴	3A@125VAC or 28VDC,	IP67			
_			1.5A @ 250VAC				
Q	silver1	silver1	3A@125VAC or 28VDC,	IP67			
_	1.10	1.10	1.5A @ 250VAC				
R	gold²	gold ²	0.4VA max. @20V max	IP67			
NOT			(AC/DC)				
	NOTE:						
	Standard G plating for sealed product. P&K for PC mount only.						
	Tin-lead option available with PC type terminations only.						
1							
2	Moveable contact & terminals: copper alloy with gold plate over nickel plate						
3	3 Terminals: silver plated with outer layer in gold plating						
4	Outer term	inals: copper alloy wi	th tin-lead over nickel plate				
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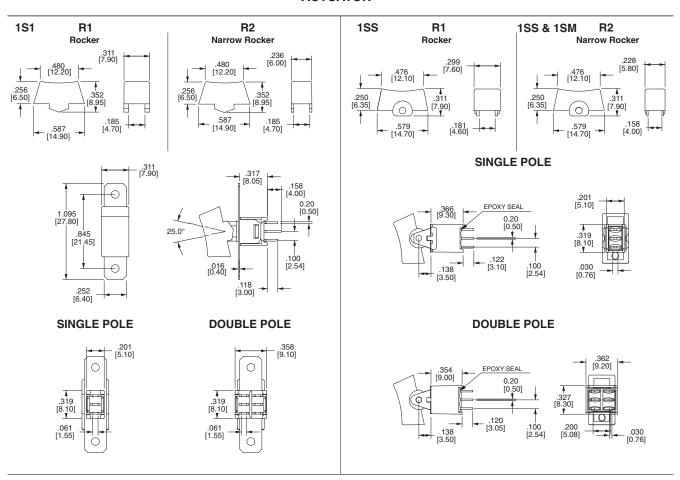
7 EPOXY SEAL E epoxy seal	
PACKAGING Switches are bulk packed, unless T/R is specified at the end of the part number.	

T/R tape reel - 500 pieces per reel

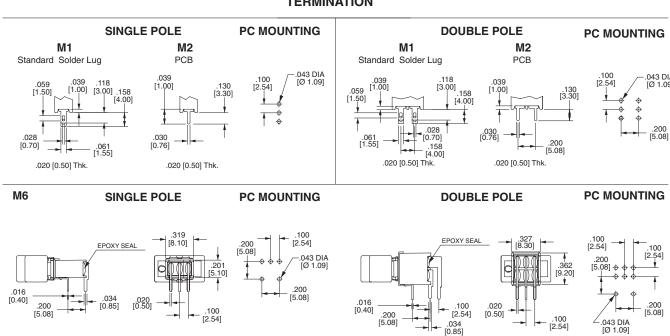


1S-Series Dimensional Specifications: in. [mm]

ACTUATOR



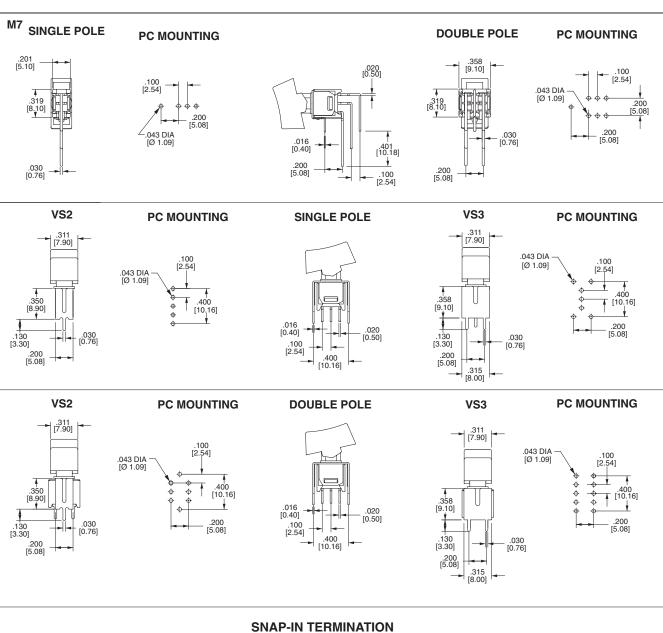
TERMINATION



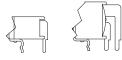


1S-Series Dimensional Specifications: in. [mm]

TERMINATION



VS21 M61 M71











1SM-Series Dimensional Specifications: in. [mm]

