



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

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



Sealed Sub-Miniature

1SS-Series

Rocker Switch

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

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 ON ON 2 3 4 5 NONE (ON) ON

4 ACTUATOR STYLE

Small rocker Narrow black rocker

5 ACTUATOR COLOR

2

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 **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



1 SERIES 1SS Sealed Sub-Miniature Rocker Switch	
2 POLES	_

WMSP WMDP	single pole - us double pole use	es terminals 1, 2 & 3. es terminals 1, 2, 3, 4	, 5 & 6.	
3 CIRCUI				
1 2 3 4 5	Switching Pos 2-3, 5-6 ON ON ON (ON) ON	OPEN NONE NONE OFF OFF OFF	2-1, 5-4 ON (ON) ON (ON) (ON)	

4 ACTU	ATOR STYLE		
R1	Small rocker	R2	Narrow rocker

			·		
5	ACTUATOR COLOR				
	white		orange		blue
	black	ວ	yellow	ø	brown
3	red	6	green	9	gray
1	White, black & red are stand	lard	. Other colors available for gu	ant	ities of 5K or more.

6 TERMINA	ATION
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 Material	Terminal Plating	Rating				
G	silver¹	gold over silver ³	3A@125VAC or 28VDC, 1.5A @ 250VAC	IP67			
К	gold ²	tin-lead4	0.4VA max. @20V max (AC/DC)	IP67			
Р	silver1	tin-lead⁴	3A@125VAC or 28VDC, 1.5A @ 250VAC	IP67			
R	gold²	gold ²	0.4VA max. @20V max (AC/DC)	IP67			
NO.	TE:		(/				
		ting for sealed produc	+				
Tin-lead option available with PC type terminations only.							
Moveable contact & terminals: copper alloy, silver plate							
2							
3							
4							
Outer terminals: copper alloy with tin-lead over nickel plate							
8 E	POXY SE	AL					

	Е	epoxy seal
OM Control Control Colonia		

1SM-Series Ordering Scheme



5 TERMINATION

M6 S6 S7

1 SERI 1SM S		unt Sub-Miniature Rock	er Switch	
2 POLE WMSP		uses terminals 1, 2 & 3		
3 CIRC () - mor				
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 ACTU	IATOR STYLE			

Narrow black rocker

R2

6 (CONTACT			
	Material		Rating	
G	silver1	gold over silver 3	3A@125VAC or 28VDC,	IP67
	1.10		1.5A @ 250VAC	
K	gold ²	tin-lead⁴	0.4VA max. @20V max (AC/DC)	IP67
Р	silver1	tin-lead⁴	3A@125VAC or 28VDC,	IP67
-			1.5A @ 250VAC	
Q	silver1	silver1	3A@125VAC or 28VDC,	IP67
			1.5A @ 250VAC	
R	gold ²	gold ²	0.4VA max. @20V max	IP67
			(AC/DC)	
NO.	TE:			
			t. P&K for PC mount only.	
Tin-	lead option	available with PC type	e terminations only.	
1			copper alloy, silver plate	
2			copper alloy with gold plate over	nickel plate
3			er layer in gold plating	
4	Outer term	inals: copper alloy wi	th tin-lead over nickel plate	

Surface Mount, 90° flat - horizontal/side terms Surface Mount, 90° horizontal/back terms Surface Mount, 90° vertical

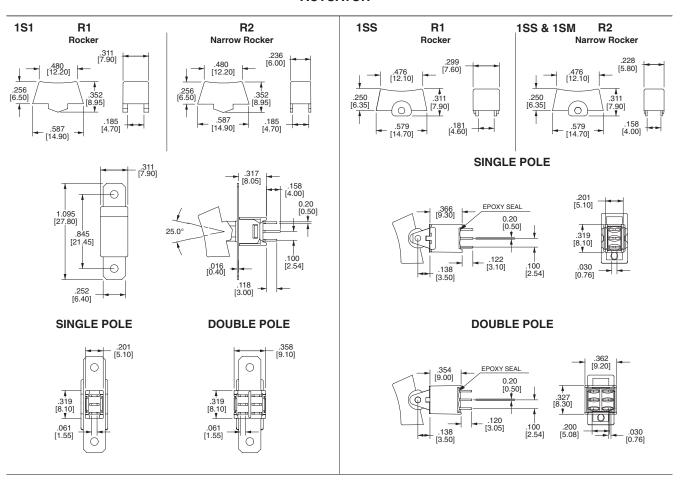
(/\dolba)								
NOTE:								
Standard G plating for sealed product. P&K for PC mount only.								
Tin-lead option available with PC type terminations only.								
Moveable contact & terminals: copper alloy, silver plate								
Moveable contact & terminals: copper alloy with gold plate over nickel plate								
Terminals: silver plated with outer layer in gold plating								
4 Outer terminals: copper alloy with tin-lead over nickel plate								
7 EPOXY SEAL								
E epoxy seal								
• •								
8 PACKAGING								
o PACKAGING								

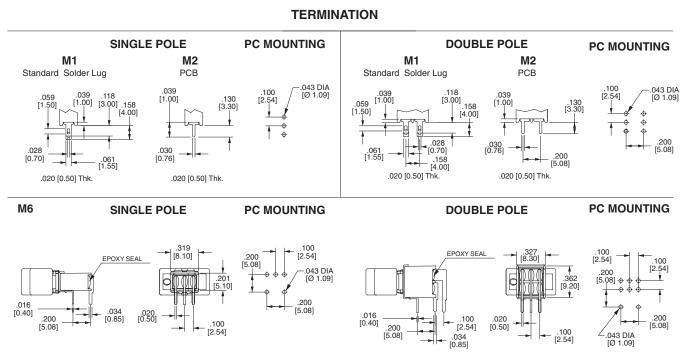
8 PACKAGING Switches are bulk packed, unless T/R is specified at the end of the part number.	
T/R tape reel - 500 pieces per reel	



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

ACTUATOR

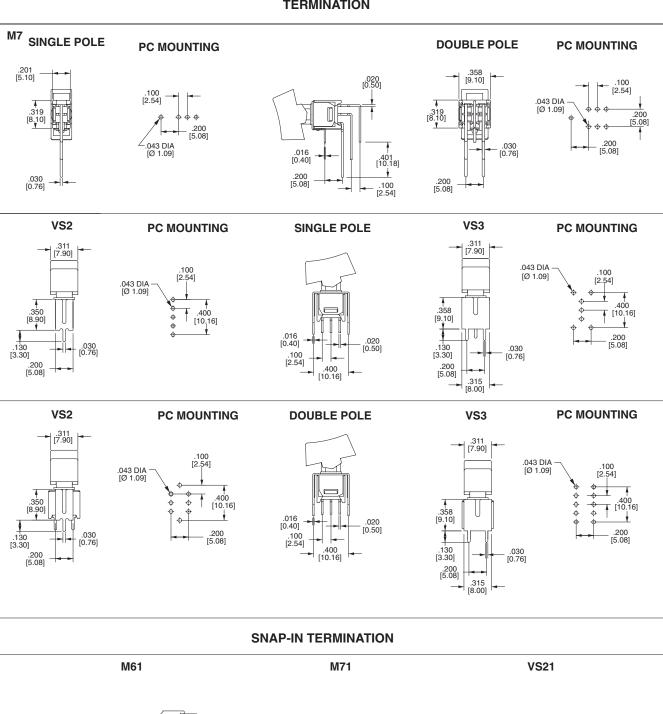






1S-Series Dimensional Specifications: in. [mm]

TERMINATION













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

