



1M1-SeriesMiniature Rocker & Paddle Switch



1MS-Series Sealed Miniature Rocker & Paddle Switch

Specifications

Contact Rating refer to ordering scheme.

cycles @ full load

1MS-Series: 30,000 make & break

cycles @ full load

Contact Resistance. 10 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 *1MS-Series:* IP67

Solder Heat Resistance. . . MIL-STD-202, Method 210

Actuator Travel 25°

Materials

(UL 94V-0)

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

94V-0)

1MS-Series: Nylon, black standard,

internal o-ring sealed

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

94V-0)

1MS-Series: Spring Steel

Actuator Pivot & Mounting

1MS-Series: Nylon (UL 94V-0)

Actuator Pivot Retainer . . . 1MS-Series: Stainless Steel

Switch Support Brass, tin plated

Terminal Seal Epoxy



1M1-Series Ordering Scheme



1 SERIES 1M1 Miniature Rocker Switch

2 POLES SP single pole - uses terminals 1, 2 & 3. double pole uses terminals 1,2, 3, 4, 5 & 6. 3P double pole uses terminals 1,2, 3, 4, 5, 6, 7, 8 & 9. double pole uses terminals 1,2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.
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3 CIRCUIT () - momentary		
Switching Positi 2-3, 5-6, 8-9, 11-1 0 N 2 ON 3 ON 4 (ON) 5 ON	fon: 12 OPEN NONE NONE OFF OFF OFF	2-1, 5-4, 8-7, 11-10 ON (ON) ON (ON) (ON)

R1 R2 R3	OR STYLE Small rocker Small paddle Medium rocker	R5 R6 R7 R8	Large rocker Rocker & frame Paddle & frame Rocker w/out fra
R2	Small paddle	R7	Paddle & fra

5 ACTUATOR COLOR & 6 FRAME COLOR^{1,2}

2	white black red	5	orange yellow green	8	blue brown gray
1	Black is standard. Other cold	ors	available, consult factory for o	deta	ils.

Selection 6 is blank if actuator style R8 or R9 (no frame)

7 TERMINATION VS4 PC Mount, U bracket, Solder Lug .460 high M2 PCB
M3 Quick Connect
M5-1 Wire Wrap .750 [19.05] VS5 PC Mount, U bracket, .630 high Snap-In, U bracket, **M5-2** Wire Wrap .964 [24.48] **M5-3** Wire Wrap .425 [10.80] **M5-4** Wire Wrap 1.062 [26.97] 90° horizontal M71 Snap-In, U bracket, 90° vertical M6 PC Mount, 90° horizontal
M7 PC Mount, 90° vertical
VS2 PC Mount, U bracket, VS21 Snap-In, U bracket, .620 mounting x .460 high VS31 Snap-In, U bracket, .620 mounting x .630 high VS41 Snap-In, U bracket VS51 Snap-In, U bracket .620 mounting x .460 high VS3 PC Mount, U bracket, .620 mounting x .630 high

Г	8 (CONTACT			
	G	Material silver ¹	Terminal Plating gold over silver ³	Rating 5A@125VAC or 28VDC, 2A@ 250VAC	<i>Approvals</i> UL CSA
	K	gold²	tin-lead⁴	0.4VA max. @20V max (AC/DC)	-
l	Р	silver1	tin-lead4	5A@125VAC or 28VDC, 2A @ 250VAC	UL CSA
	Q	silver1	silver¹	5A@125VAC or 28VDC, 2A @ 250VAC	UL CSA
	R	gold²	gold ²	0.4VA max. @20V max (AC/DC)	-
L	NOT	ΓE:		(NO/DO)	

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 plate with outer layer in gold plating Outer terminals: copper alloy with tin-lead over nickel plate

9 EPOXY SEAL Ε epoxy seal

1MS-Series Ordering Scheme



1 SERIES 1MS Sealed Miniature Rocker Switch

2 PO	LES
SP DP 3P	single pole - uses terminals 1, 2 & 3. double pole uses terminals 1,2, 3, 4, 5 & 6. double pole uses terminals 1,2, 3, 4, 5, 6, 7, 8 & 9.

3 CIRCUIT () - momentar	у		
1 0 2 0 3 0	Switching Position: 2-3, 5-6, 8-9 DN DN DN ON) ON) ON)	OPEN NONE NONE OFF OFF	2-1, 5-4, 8-7 ON (ON) ON (ON) (ON)

4 ACTUA	TOR STYLE	R5	Large rocker
R1	Small rocker	R6	Rocker & frame
R2	Small paddle	R7	Paddle & frame
R3 R4	Medium rocker Large paddle	R8 R9	Rocker w/out frame Paddle w/out frame

6 (CONTACT Material	Terminal Plating	Rating	Approvals
G	silver1	gold over silver ³	5A@125VAC or 28VDC, 2A @ 250VAC	UL CUL
K	gold²	tin-lead⁴	0.4VA max. @20V max (AC/DC)	-
Р	silver1	tin-lead⁴	5A@125VAC or 28VDC, 2A @ 250VAC	UL CUL
R	gold²	gold ²	0.4VA max. @20V max (AC/DC)	-
NO		available with PC type	,	

- Moveable contact & terminals: copper alloy, silver plate
 Moveable contact & terminals: copper alloy with gold plate over nickel plate
- Terminals: silver plate with outer layer in gold plating Outer terminals: copper alloy with tin-lead over nickel plate

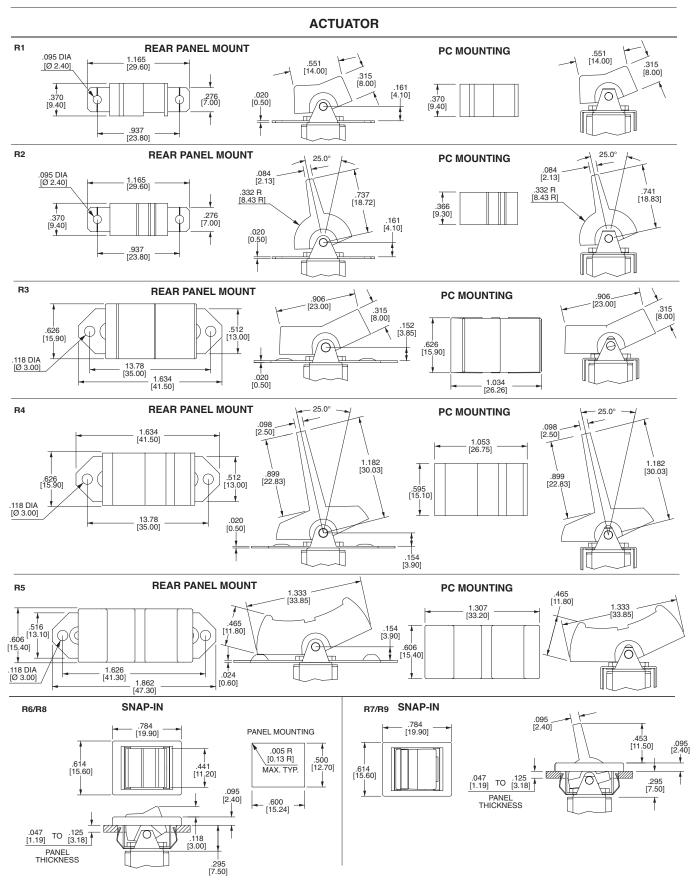
7 EPOXY SEAL

Е epoxy seal

8



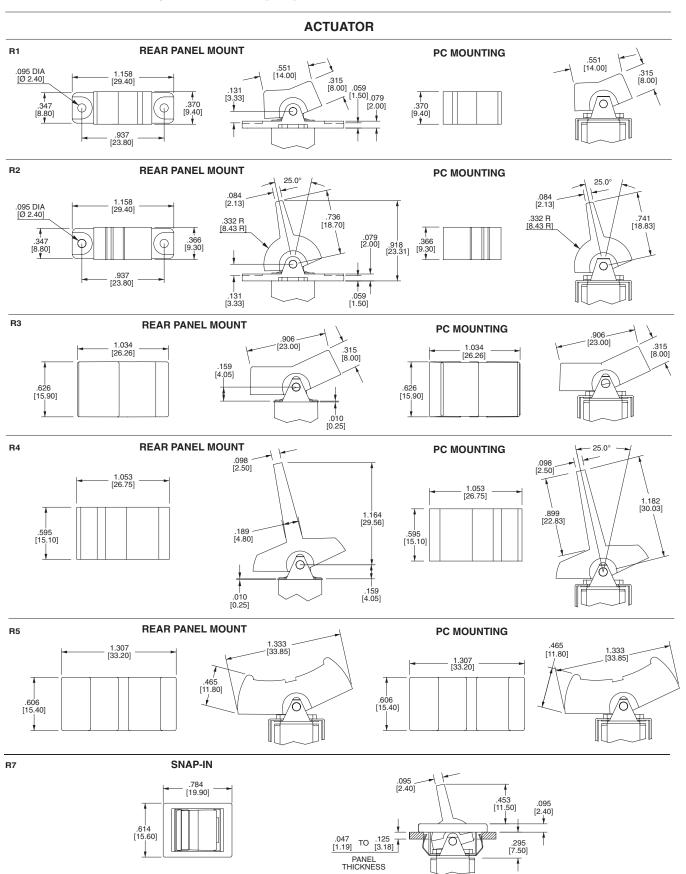
1M1-Series Dimensional Specifications: in.[mm]



R8 and R9 are without frame. Actuators are as shown.



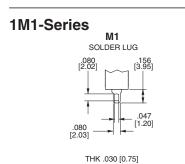
1MS-Series Dimensional Specifications: in.[mm]

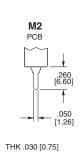


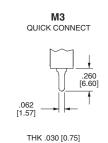


1M-Series Dimensional Specifications: in.[mm]

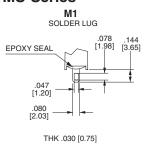
TERMINATION

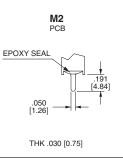


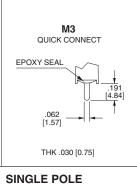


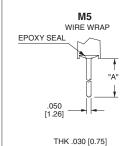








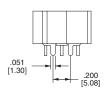


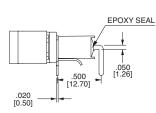


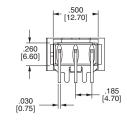
OPTION CODE	DIM. "A"
M5-1	.750 [19.05]
M5-2	.964 [24.48]
M5-3	.425 [10.80]
M5-4	1.062 [26.97]

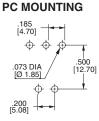
1M-Series

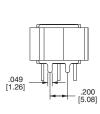
М6

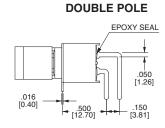


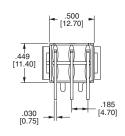


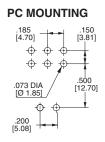


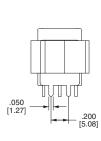


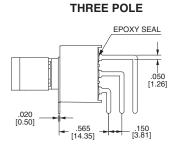


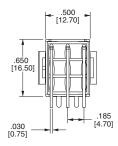


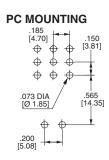














1M-Series Dimensional Specifications: in.[mm]

