



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



1M1 Miniature Rocker Switch

2 POLES 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. double pole uses terminals 1,2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12. DP

3 CIRCUIT () - momentary **Switching Position:** 2-3, 5-6, 8-9, 11-12 ON 2-1, 5-4, 8-7, 11-10 ON (ON) ON (ON) (ON) OPEN NONE NONE OFF OFF OFF ON

4 ACTUATOR STYLE Large rocker R1 Small rocker R6 Rocker & frame Paddle & frame Rocker w/out frame R2 Small paddle R7 Medium rocker R8 Large paddle Paddle w/out frame

5 ACTUATOR COLOR & 6 FRAME COLOR12

4 orange white 7 blue black yellow brown 3 red 6 green 9 gray

Black is standard. Other colors available, consult factory for details. Selection 6 is blank if actuator style R8 or R9 (no frame)

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

8 CONTACT Terminal Plating gold over silver³ Material Rating 5A@125VAC or 28VDC, Approvals UL CSA G silver 2A @ 250VAC 0.4VA max. @20V max gold² tin-lead⁴ 5A@125VAC or 28VDC, silver tin-lead4 **UL CSA** 2A @ 250VAC 5A@125VAC or 28VDC, silver silver **UL CSA** 2A @ 250VAC 0.4VA max. @20V max R gold² gold²

NOTE:

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

EPOXY SEAL Ε epoxy seal

1MS-Series Ordering Scheme



1MS Sealed Miniature Rocker Switch

2 POLES 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 () - momentary **Switching Position:** 2-3, 5-6, 8-9 ON OPEN NONE *2-1, 5-4, 8-7* ON ON ON (ON) ON NONE OFF OFF (ON) ON 2 3 4 5

4 ACTUATOR STYLE Large rocker R6 R7 Rocker & frame Paddle & frame R₁ Small rocker Small paddle R3 Medium rocker R8 Rocker w/out frame R4 Large paddle R9 Paddle w/out frame 5 TERMINATION VS3 PC Mount, U bracket, Solder Lug .620 mounting x .630 high PC Mount, U bracket, PCB M3 Quick Connect M5-1 Wire Wrap .750 [19.05] M5-2 Wire Wrap .964 [24.48] .460 high
VS5 PC Mount, U bracket, .630 high M5-3 Wire Wrap .425 [10.80] M5-4 Wire Wrap 1.062 [26.97] VS21 Snap-In, U bracket .620 mounting x .460 high VS31 Snap-In, U bracket, M6 PC Mount, 90° horizontal
M7 PC Mount, 90° vertical
VS2 PC Mount, U bracket, .620 mounting x .630 high VS41 Snap-In, U bracket VS51 Snap-In, U bracket .620 mounting x .460 high

6 CONTACT Terminal Plating Material Rating 5A@125VAC or 28VDC, Approvals G UL CUL silver gold over silver 2A @ 250VAC 0.4VA max. @20V max gold² tin-lead (AC/DC) 5A@125VAC or 28VDC, UL CUL tin-lead⁴ silver 2A @ 250VAC 0.4VA max. @20V max R gold² $gold^2$ (AC/DC)

NOTE:

Tin-lead option available with PC type terminations only.

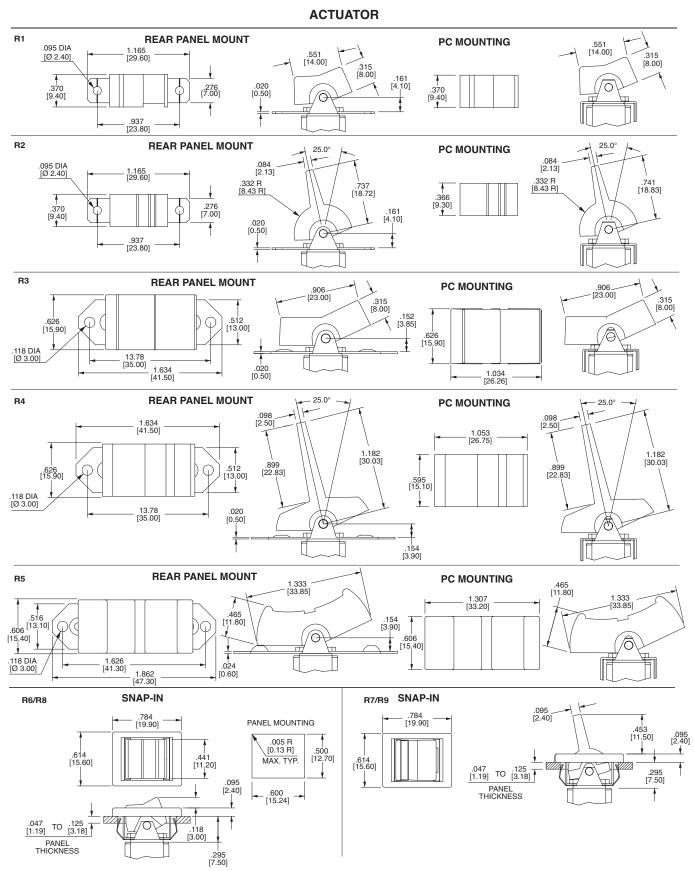
- Moveable contact & terminals: copper alloy, silver plate Moveable contact & terminals: copper alloy with gold plate over nickel plate
- Terminals: silver plate with outer layer in gold plating Outer terminals: copper alloy with tin-lead over nickel plate

EPOXY SEAL E epoxy seal

8



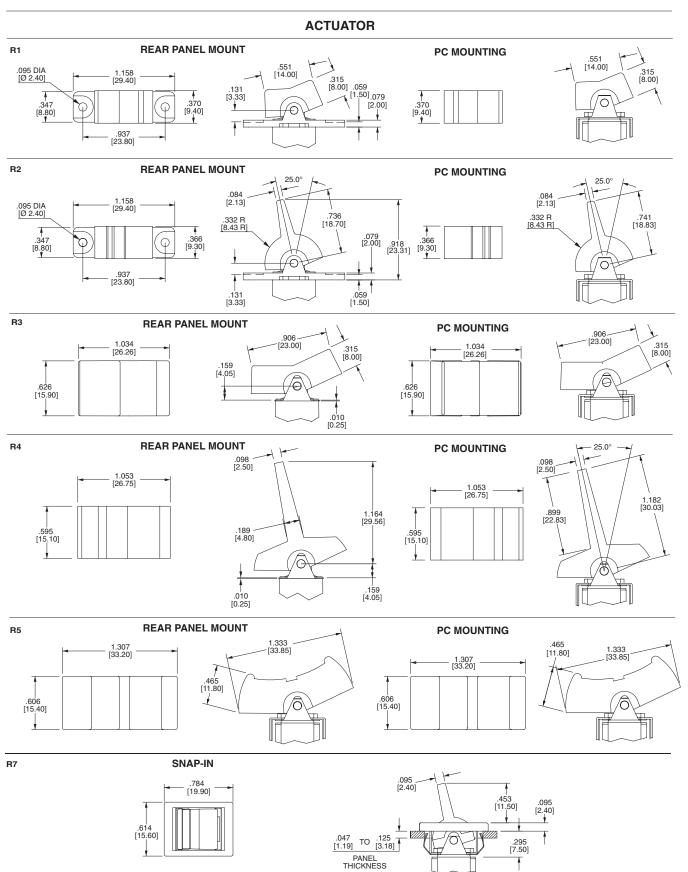
1M1-Series Dimensional Specifications: in.[mm]



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



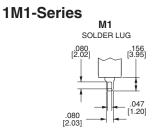
1MS-Series Dimensional Specifications: in.[mm]

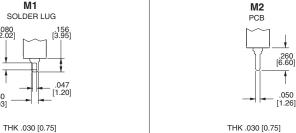


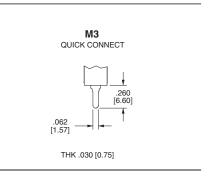


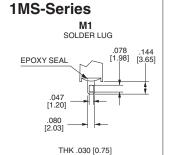
1M-Series Dimensional Specifications: in.[mm]

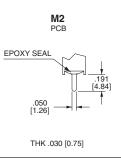
TERMINATION

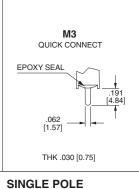


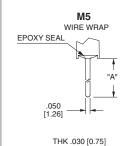








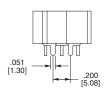


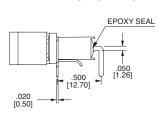


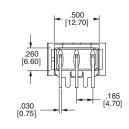
OPTION CODE	DIM. "A"
M5-1	.750 [19.05]
M5-2	.964 [24.48]
M5-3	.425 [10.80]
M5-4	1.062 [26.97]

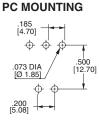
1M-Series

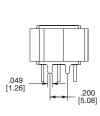
М6

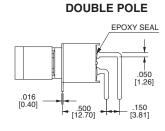


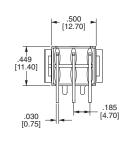


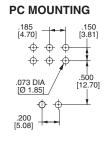


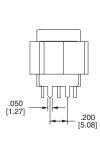


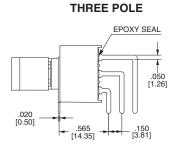


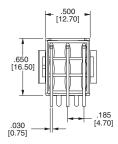


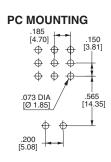














1M-Series Dimensional Specifications: in.[mm]

