

RoHS Compliant



Specifications:

Mechanical Life : 40,000 make-and-break cycles : $10m\Omega$ max. initial @ 2-4V DC Contact Resistance

100mA for both silver and gold plated contacts

Insulation Resistance : 1,000M Ω min.

Dielectric Strength : 1,000V rms min. @ sea level

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

Materials:

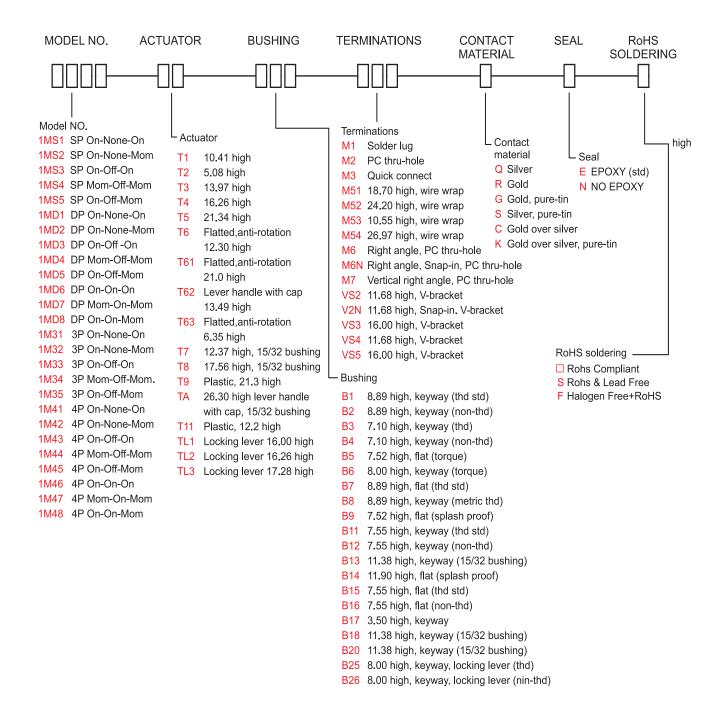
Case : Diallyl phthalate (DAP) Actuator : Brass,chrome plated Bushing : Brass, nickel plated : Stainless steel Housing

Switch Support : Brass, tin plated

Contact / Terminals : Brass, Silver or gold plated



How to Order:





Switch Function:

	UL/CSA Model No.	Model No.	Switch Function		Connected Terminals / Schematic			
No. Poles			Pos.1	Pos.2	Pos.3	Pos.1	Pos.2	Pos.3
			¥	¥	¥),),	À
SP	Q1111	1MS1	ON	NONE	ON		NI/A	
	Q1112	1MS2	ON	NONE	MOM	2-3	N/A	2-1
	Q1113	1MS3	ON	OFF	ON	₹ 2 (COMM)		• 2 (COMM)
	Q1114	1MS4	MOM	OFF	MOM	2 (COMM) 1• 3	OPEN	2 (COMM) 1 • 3
	Q1115	1MS5	ON	OFF	MOM			
	Q1121	1MD1	ON	NONE	ON		N/A	
	Q1122	1MD2	ON	NONE	MOM	2-3, 5-6		2-1, 5-4
	Q1123	1MD3	ON	OFF	ON	2 (COMM) 5 • 6		2 (COMM) 59 1 3 4 6
DP	Q1124	1MD4	MOM	OFF	MOM	1• 3 4• 6	OPEN	1 4 6
	Q1125	1MD5	ON	OFF	MOM			
	Q1126	1MD6	ON	ON	ON			
	* Q1127	1MD7	MOM	ON	MOM	2-3, 5-6	2-3, 5-4	2-1, 5-4
	* Q1128	1MD8	ON	ON	MOM			
	Q1131	1M31	ON	NONE	ON	2-3, 5-6, 8-9	N/A OPEN	
	Q1132	1M32	ON	NONE	MOM			2-1, 5-4, 8-7
3P	Q1133	1M33	ON	OFF	ON	2 5 (COMM) 8 0 6 7 0 9		р 2 5 р (сомм) 8 р
	Q1134	1M34	MOM	OFF	MOM	1. 3 4. 6 7. 9		1 3 4 6 7 9
	Q1135	1M35	ON	OFF	MOM			
	Q1141	1M41	ON	NONE	ON			
4P	Q1142	1M42	ON	NONE	МОМ	2-3, 5-6, 8-9, 11-12	N/A	2-1, 5-4, 8-7, 11-10
	Q1143	1M43	ON	OFF	ON	1. \frac{2}{3} \frac{4.}{6} \frac{5(COMM)}{7.} \frac{8}{9} \frac{111}{10.} \frac{1}{12}		
	Q1144	1M44	MOM	OFF	MOM			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Q1145	1M45	ON	OFF	MOM			
	Q1146	1M46	ON	ON	ON			
	* Q1147	1M47	MOM	ON	MOM	2-3, 5-6, 8-9, 11-12	2-3, 5-4, 8-9, 11-10	2-1, 5-4, 8-7, 11-10
	* Q1148	1M48	ON	ON	MOM			

MOM = Momentary

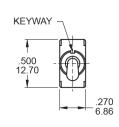


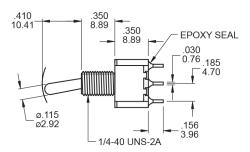
^{*} Please check the availability in advance before order

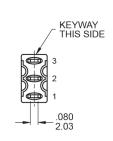


Pole Options:





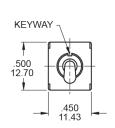


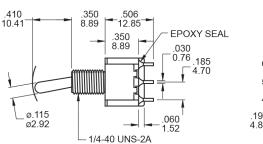


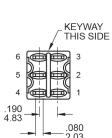
SPDT

Part No. Shown: 1MS1T1B1M1QE





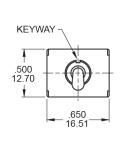


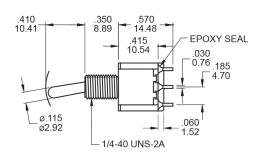


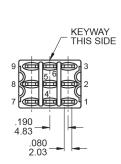
DPDT

Part No. Shown: 1MD1T1B1M1QE





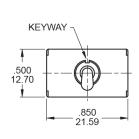


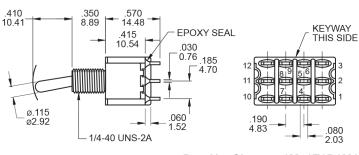


3PDT

Part No. Shown: 1M31T1B1M1QE







4PDT

Part No. Shown: 1M41T1B1M1QE

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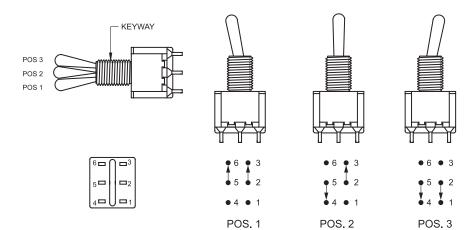
Minature Toggle Switches



3-Way Switch:

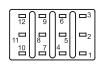
SINGLE POLE, 3 POSITION

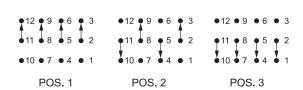
Model No.	POS 1	POS 2	POS 3
1MD6	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4



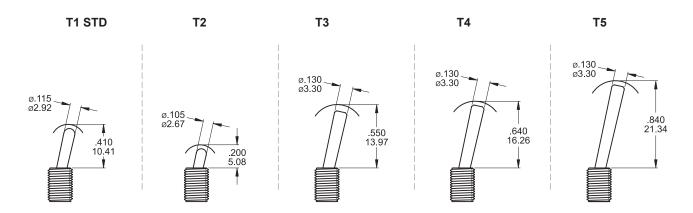
DOUBLE POLE, 3 POSITION

Model No.	POS 1	POS 2	POS 3
1M46	ON	ON	ON
Term. Comm.	2-3,5-6 8-9,11-12	2-3,5-4 8-9,11-10	2-1,5-4 8-7,11-10





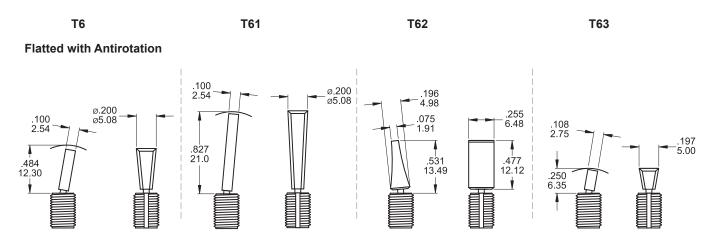
Actuator Options:



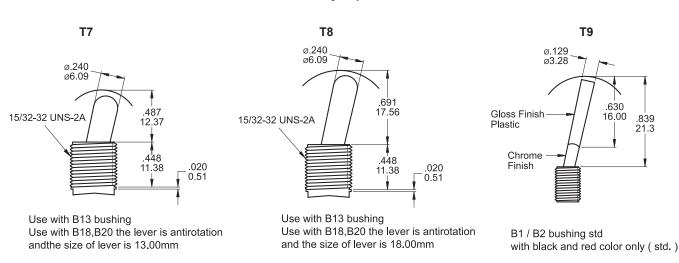
Note: T1 ~ T5 Actuator shown with standard B1 Bushing:
Add .070 (1.78) for B3 Bushing;
Subtract .02 (0.51) for B6 Bushing;
Std for M1, M2 Terminal sub .016 (0.4) for M6, M7, VSX

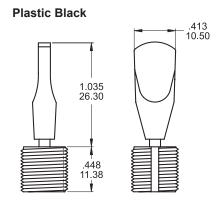






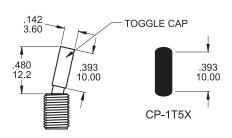
Note T6,T6-1,T6-2,T63 use with B11, B12, B15, B16 bushing only.





TA

Use with B18 bushing only



T11

Note T11Actuator shown with standard B1 Bushing; Add .07 (1.78) for B3 Bushing; Subtract .02 (0.51) for B6 Bushing. Std for M1.M2 Terminal sub .016 (0.40) for M6.M7.VSX

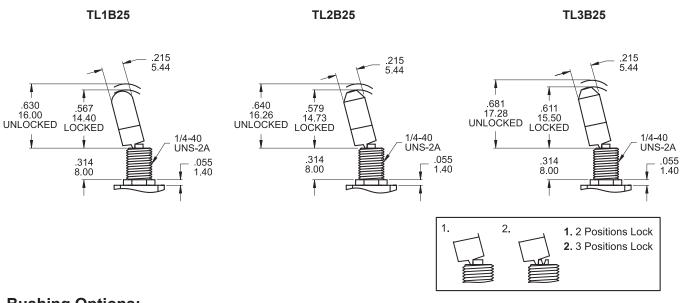
Plastic No.Colour:

ITEM NO	COLOR
1	White
2	Black (Std)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

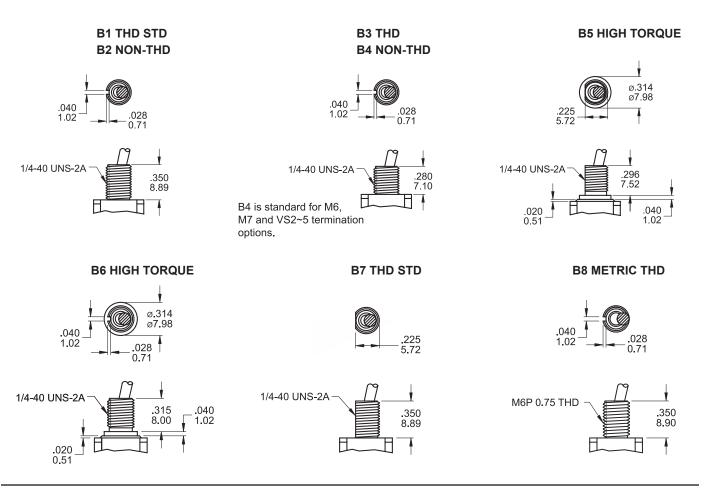
T62, TA, T9, T11 Actuator Only





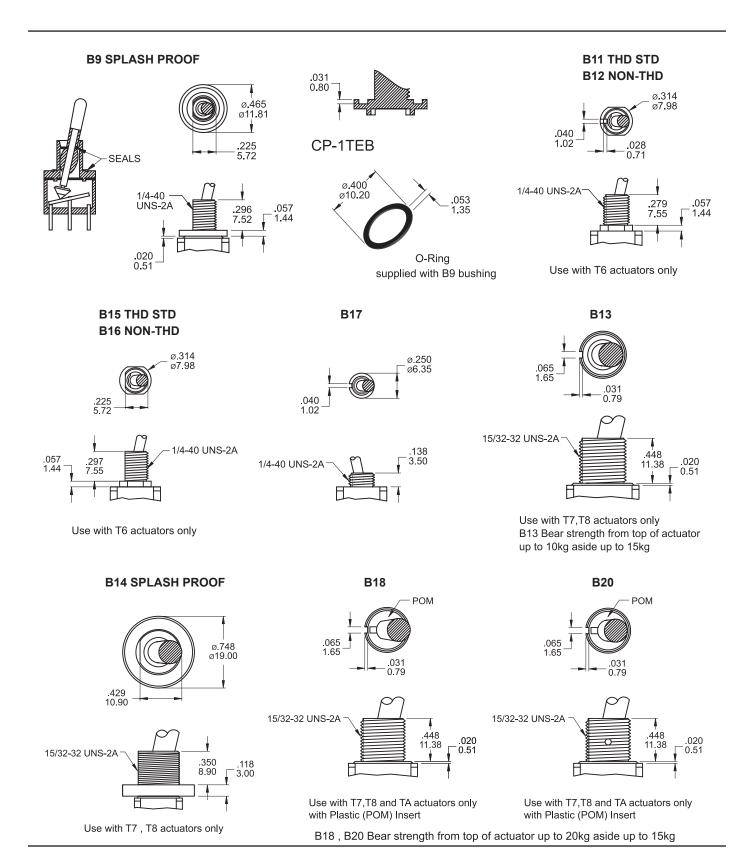


Bushing Options:







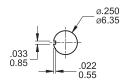






Panel Mounting:

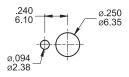
1/4" Bushing



Without locking ring (Keyway)

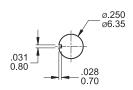


Without locking ring (Flat)

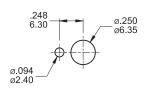


With standard locking ring.

Metric Bushing

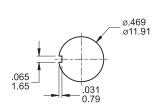


Without locking ring (Keyway)

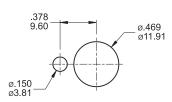


With standard locking ring.

15/32 Bushing

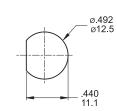


Without locking ring (Keyway)



With standard locking ring.

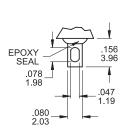
Splash Proof Bushing



Without locking ring (Flat)

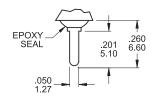
Termination Options:

M1 Solder lug



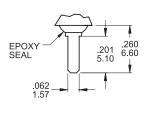
.030(0.76) THK.

M2 PC Thru-hole



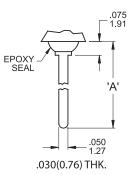
.030(0.76) THK.

M3 Quick connect



.030(0.76) THK.

M5 Wire Wrap





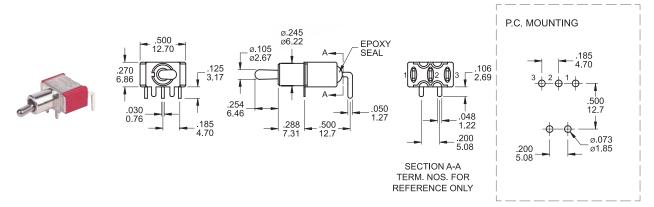


Option Code	Dim. A
M5-1	0.736 (18.7)
M5-2	0.953 (24.20)
M5-3	0.415 (10.55)
M5-4	1.062 (26.97)

Other Termination Options:

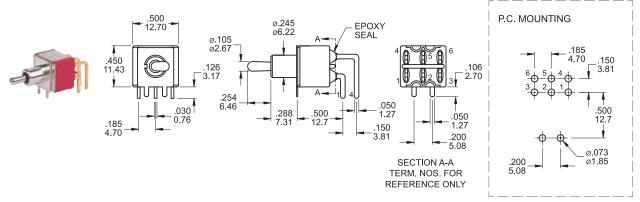
Right Angle P.C. Mount М7 Right Angle P.C. Mount VS2 Vertical Bracket P.C. Mount VS3 Vertical Bracket P.C. Mount VS5 Vertical Bracket P.C. Mount

M6



SPDT Part No. Shown: 1MS1T2B4M6QE

M6



DPDT Part No. Shown: 1MD1T2B4M6RE

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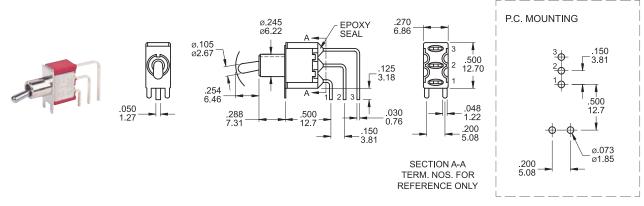
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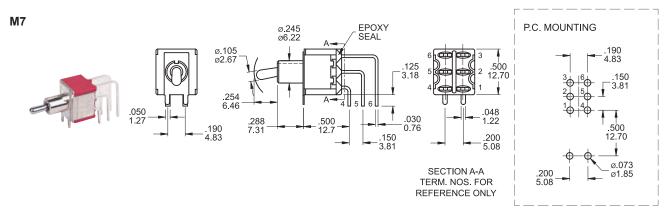
Minature Toggle Switches



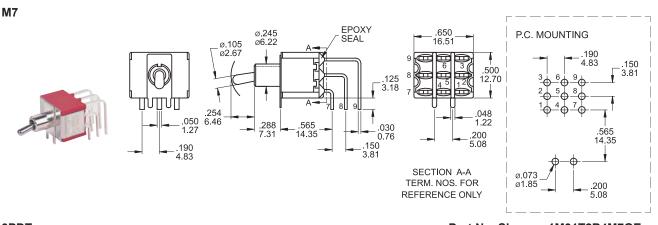




SPDT Part No. Shown: 1MS1T2B4M7QE



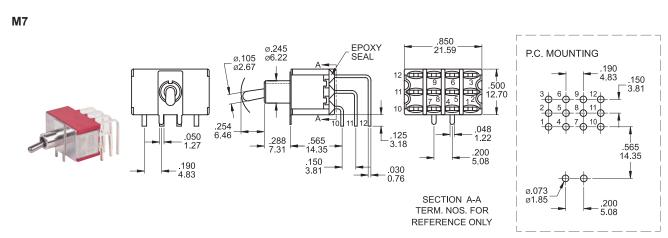
DPDT Part No. Shown: 1MD1T2B4M7QE



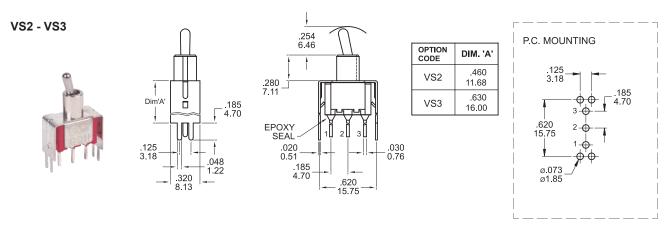
3PDT Part No. Shown: 1M31T2B4M7QE



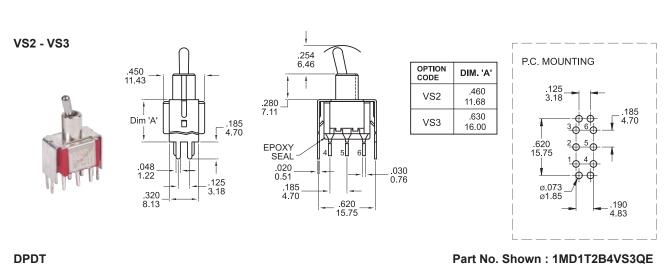




4PDT Part No. Shown: 1M41T2B4M7QE



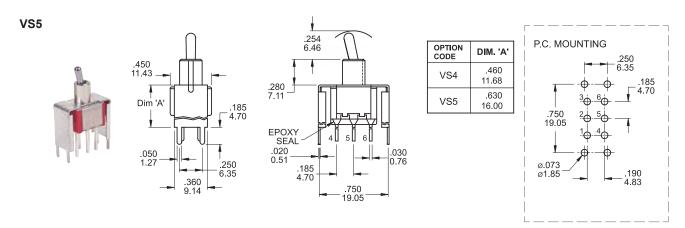
SPDT Part No. Shown: 1MS1T2B4VS2QE





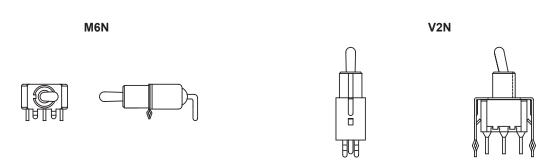
Minature Toggle Switches



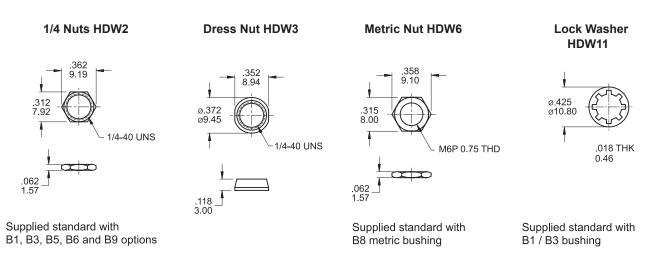


DPDT Part No. Shown: 1MD1T2B4VS5QE

Snap-In Termination Options:



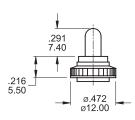
Hardware:





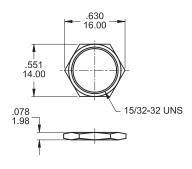


Optional Rubber Hood Sealing



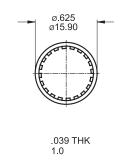
K1=Metric E1=Inch (Std.) for actuator T1, T2 and B1, B3, B5, B6 Bushing only

15/32 Nuts HDW4



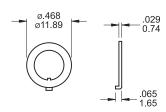
Supplied standard with B13 bushing

Lock Washer HDW12



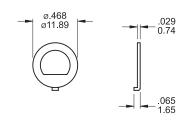
Supplied standard with B13 bushing

HDW15



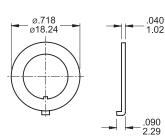
Locking ring supplied standard

HDW16



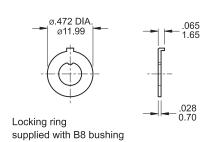
Locking ring supplied with B5 bushing

HDW17

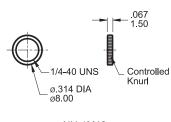


Locking ring supplied with B13,B18,B20 bushing

HDW18

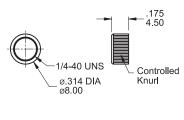


HDW19



NU-1M18

HDW20



NU-1M24



Optional Toggle Cap:

CP-T1XX



Use with T1

CAP Colour:

Item No	Colour
1	White
2	Black (Std)
3	Red
5	Yellow
6	Green
7	Blue
9	Gray

Contact Material Options:

	Contact Plating	Terminal Plating	Ratings	
Q	Silver	Q = Silver		
S	Silver	S = Silver,pure - tin	5 Amps with resistant load @ 120VAC or 28VDC	
С	Gold over Silver	C = Gold over silver	2 Amps with resistant load @ 250VAC	
K	Gold over Sliver	K = Gold over silver,pure - tin		
R	Gold R = Gold		0.4 Valt Amna (VA) may @ 20V may (AC or DC)	
G	Gold	G = Gold,pure - tin	0.4 Volt - Amps(VA)max. @ 20V max.(AC or DC	

Soldering Processes:

Manual Soldering: Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder. Wave Soldering: Recommended Soldering Temperature: 260 ± 5°C Duration of Solder Immersion: Max 5 sec. (PCB is 1.6mm in thickness)

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