





Specifications

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

100mA for both silver and gold plated

contacts

Insulation Resistance : $1,000M\Omega$ 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
Housing : Stainless steel
Switch Support : Brass, tin plated

Contact / Terminals : Brass, Silver or gold plated

Switch Function

		Switch Function		Connected Terminals / Schematic			
No.	Model No.	Pos.1	Pos.2	Pos.3	Pos.1	Pos.2	Pos.3
Poles		Ä	À	À)	1),
	1MS1	ON	NONE	ON		N/A	
	1MS2	ON	NONE	MOM	2-3	IN/A	2-1
SP	1MS3	ON	OFF	ON	₹ 2 (COMM)	OPEN	2 (COMM) 1 • 3
	1MS4	MOM	OFF	MOM	2 (COMM) 1• 3		
	1MS5	ON	OFF	MOM			
	1MD1	ON	NONE	ON	2-3, 5-6	N/A OPEN	
	1MD2	ON	NONE	MOM			2-1, 5-4
	1MD3	ON	OFF	ON			2 (COMM) 5 • 6
DP	1MD4	MOM	OFF	MOM	1• 3 4• 6		1 4 6
DP	1MD5	ON	OFF	MOM			
	1MD6	ON	ON	ON		2-3, 5-4	
	1MD7	MOM	ON	MOM	2-3, 5-6		2-1, 5-4
	1MD8	ON	ON	MOM			
	1M31	ON	NONE	ON		N/A 2-1, 5-4,	
	1M32	ON	NONE	MOM	2-3, 5-6, 8-9		2-1, 5-4, 8-7
3P	1M33	ON	OFF	ON	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	OPEN	₱2 5₱ (COMM) 8₱
	1M34	MOM	OFF	MOM			1 • 3 4 • 6 7 • 9
	1M35	ON	OFF	MOM			



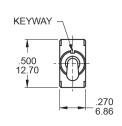


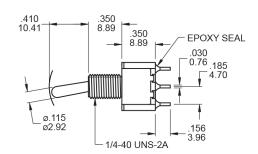
		Switch Function		Connected Terminals / Schematic			
No.	Model No.	Pos.1	Pos.2	Pos.3	Pos.1	Pos.2	Pos.3
Poles),	#),),),	Ţ
	1M41	ON	NONE	ON		N/A	
	1M42	ON	NONE	MOM	2-3, 5-6, 8-9, 11-12	IN/A	2-1, 5-4, 8-7, 11-10
	1M43	ON	OFF	ON	•2 • 5(COMM) 8• 11•		• 2 • 5(COMM) 8• 11•
4P	1M44	MOM	OFF	MOM	1. \frac{2}{3} \frac{4.}{6} \frac{5(COMM)}{7.} \frac{8}{9} \frac{11}{10.} \frac{1}{12}	OPEN	1 2 5(COMM) 8 7 11 11 12 12 12 12 12 12 12 12 12 12 12
46	1M45	ON	OFF	MOM			
	1M46	ON	ON	ON			
	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
	1M48	ON	ON	MOM			

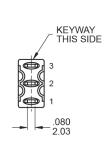
MOM = Momentary

Pole Options:







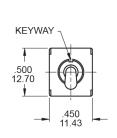


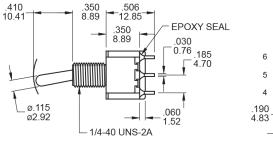
KEYWAY THIS SIDE

SPDT

Part No. Shown: 1MS1T1B1M1QE





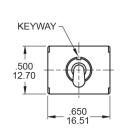


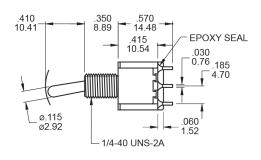
DPDT

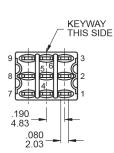
Part No. Shown: 1MD1T1B1M1QE

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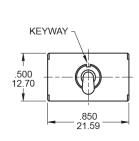


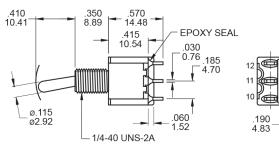


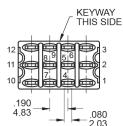
3PDT

Part No. Shown: 1M31T1B1M1QE









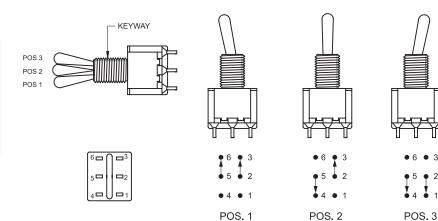
4PDT

Part No. Shown: 1M41T1B1M1QE

3-Way Switch:

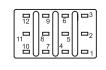
SINGLE POLE, 3 POSITION

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





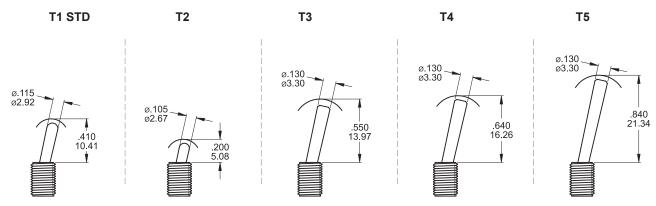




• 2



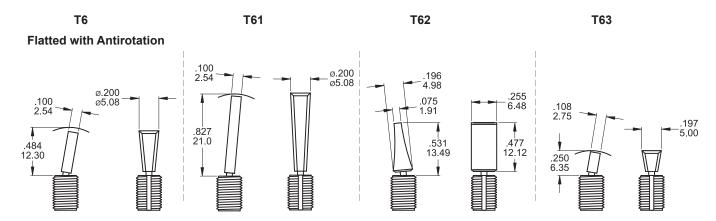
Actuator Options:



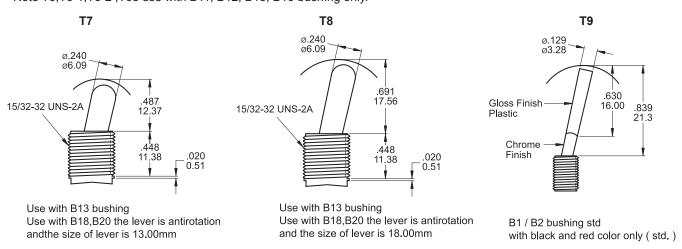
Note: T1 ~ T5 Actuator shown with standard B1 Bushing:

Add .070 (1.78) for B3 Bushing; Subtract .02 (0.51) for B6 Bushing;

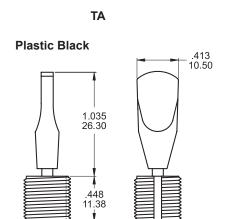
Std for M1, M2 Terminal sub .016 (0.4) for M6, M7, VSX



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



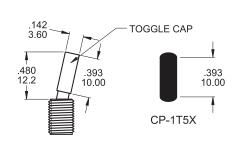




Use with B18 bushing only

TL1B25

T11



T11Actuator shown with standard B1 Bushing; Add .07 (1.78) for B3 Bushing; Subtract .02 (0.51) for B6 Bushing.

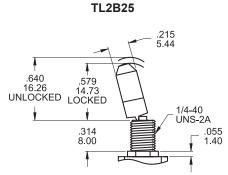
Std for M1.M2 Terminal sub .016 (0.40) for M6.M7.VSX

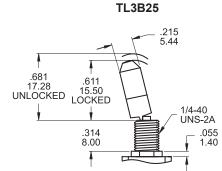
Plastic No.Colour:

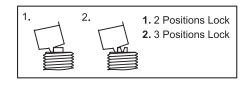
ITEM NO	COLOR	
1	White	
2	Black (Std)	
3	Red	
4	Orange	
5	Yellow	
6	Green	
7	Blue	
8	Brown	
9	Gray	

T62 , TA , T9 , T11 Actuator Only

.630 .567 16.00 14.40 UNLOCKED LOCKED 1/4-40 UNS-2A .314 8.00 .055 1.40

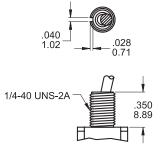




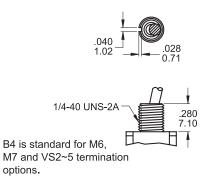


Bushing Options:

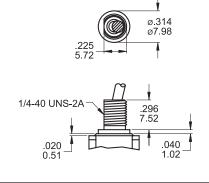
B1 THD STD B2 NON-THD



B3 THD B4 NON-THD



B5 HIGH TORQUE

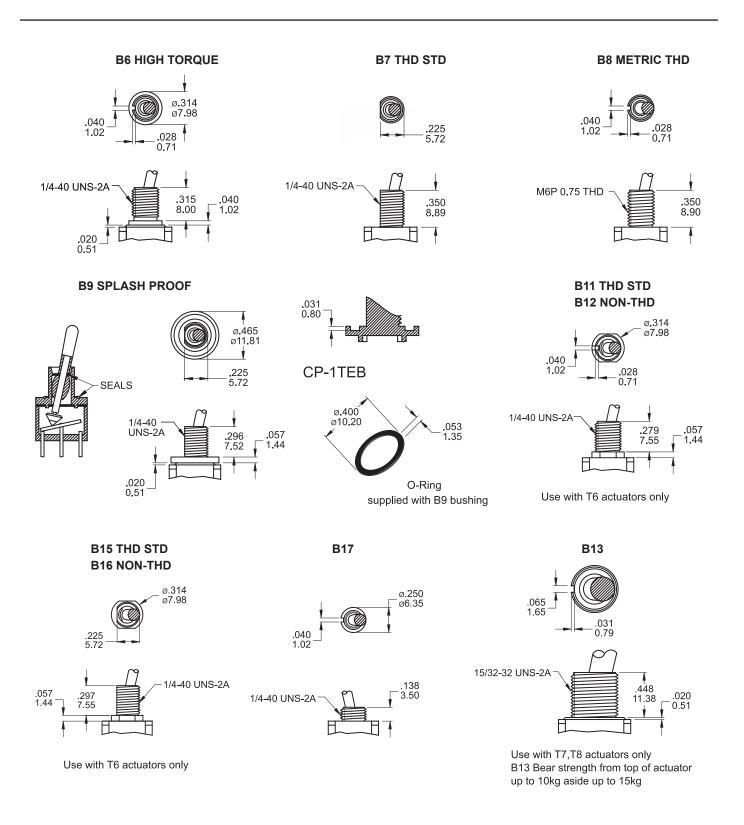


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options.

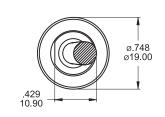


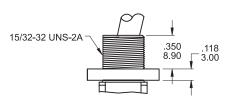






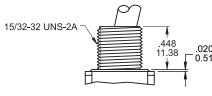
B14 SPLASH PROOF



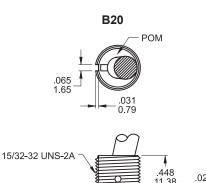


Use with T7, T8 actuators only

B18 POM .065 1.65 .031 0.79



Use with T7,T8 and TA actuators only with Plastic (POM) Insert

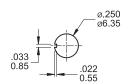


Use with T7,T8 and TA actuators only with Plastic (POM) Insert

B18, B20 Bear strength from top of actuator up to 20kg aside up to 15kg

Panel Mounting:

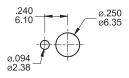
1/4" Bushing



Without locking ring (Keyway)

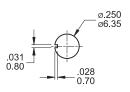


Without locking ring (Flat)

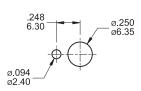


With standard locking ring.

Metric Bushing

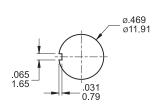


Without locking ring (Keyway)

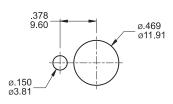


With standard locking ring.

15/32 Bushing

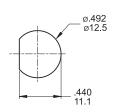


Without locking ring (Keyway)



With standard locking ring.

Splash Proof Bushing

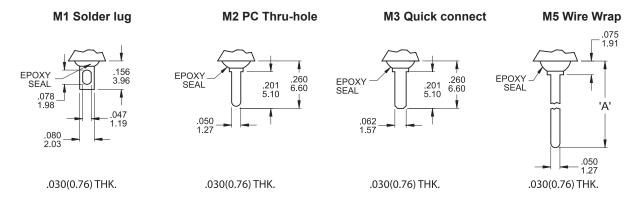


Without locking ring (Flat)





Termination Options:

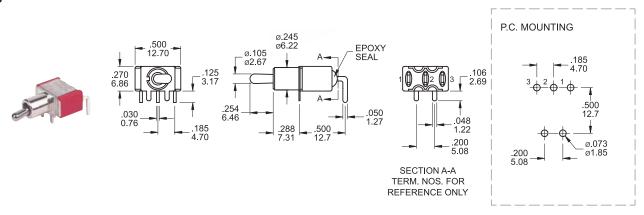


Option Code	Dim. A
M5-1	0.736 (18.7)
M5-2	0.953 (24.20)
M5-3	0.415 (10.55)
M5-4	1.062 (26.97)

Other Termination Options:

M6 Right Angle P.C. Mount
M7 Right Angle P.C. Mount
VS2 Vertical Bracket P.C. Mount
VS3 Vertical Bracket P.C. Mount
VS5 Vertical Bracket P.C. Mount

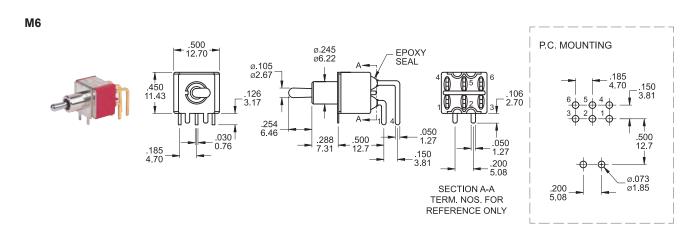
M6



SPDT Part No. Shown: 1MS1T2B4M6QE

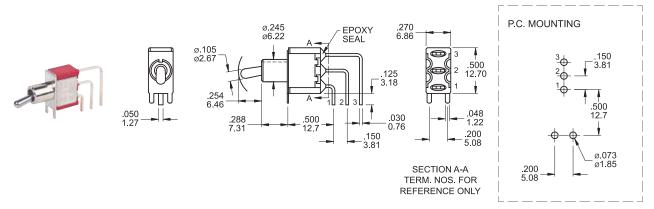




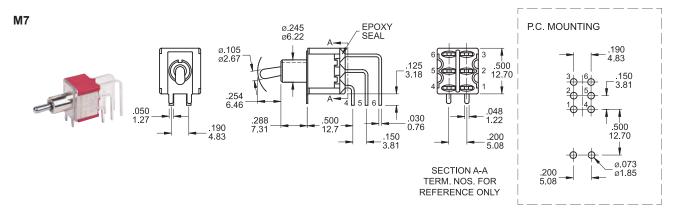


DPDT Part No. Shown: 1MD1T2B4M6RE

M7



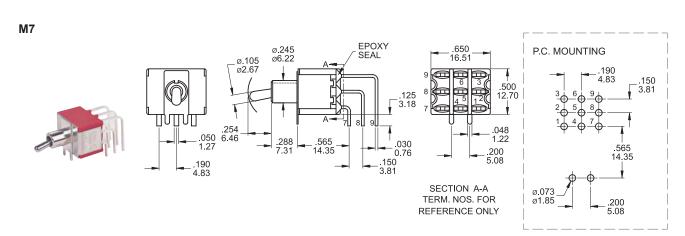
SPDT Part No. Shown: 1MS1T2B4M7QE



DPDT Part No. Shown: 1MD1T2B4M7QE

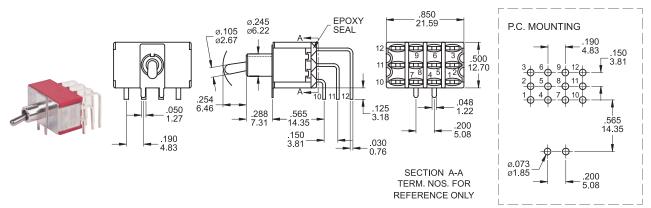




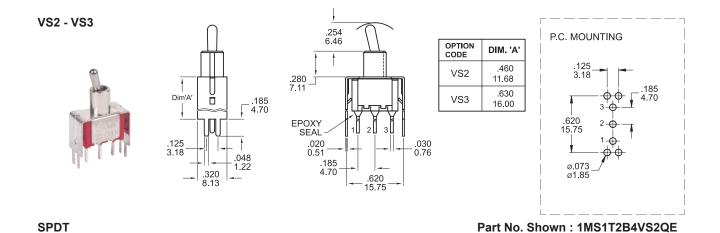


3PDT Part No. Shown: 1M31T2B4M7QE

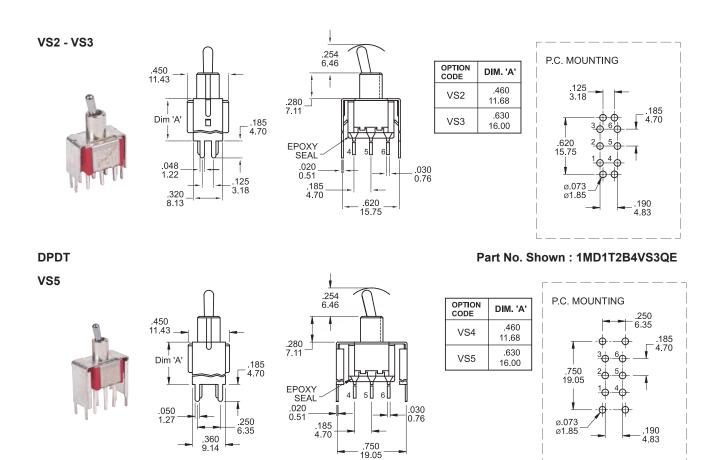
M7



4PDT Part No. Shown: 1M41T2B4M7QE







DPDT

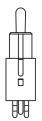
Snap-In Termination Options:

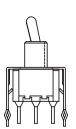










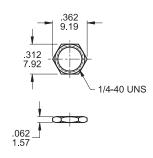


Part No. Shown: 1MD1T2B4VS5QE

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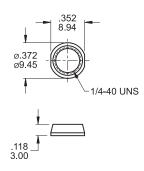
Hardware:

1/4 Nuts HDW2

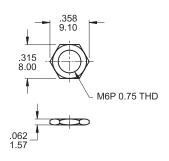


Supplied standard with B1, B3, B5, B6 and B9 options

Dress Nut HDW3

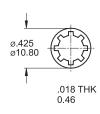


Metric Nut HDW6



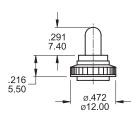
Supplied standard with B8 metric bushing

Lock Washer HDW11



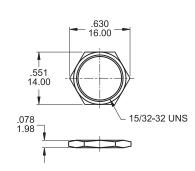
Supplied standard with B1 / B3 bushing

Optional Rubber Hood Sealing



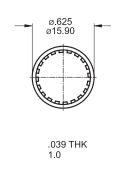
K1=Metric E1=Inch (Std.) for actuator T1, T2 and B1, B3, B5, B6 Bushing only

15/32 Nuts HDW4



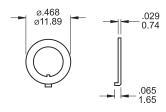
Supplied standard with B13 bushing

Lock Washer HDW12



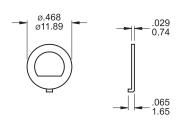
Supplied standard with B13 bushing

HDW15



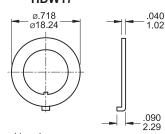
Locking ring supplied standard

HDW16



Locking ring supplied with B5 bushing

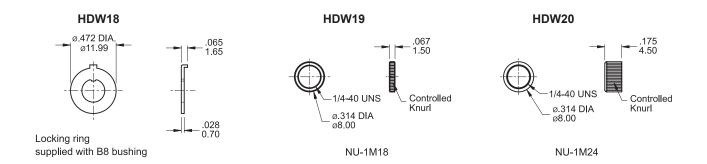
HDW17



Locking ring supplied with B13,B18,B20 bushing







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:

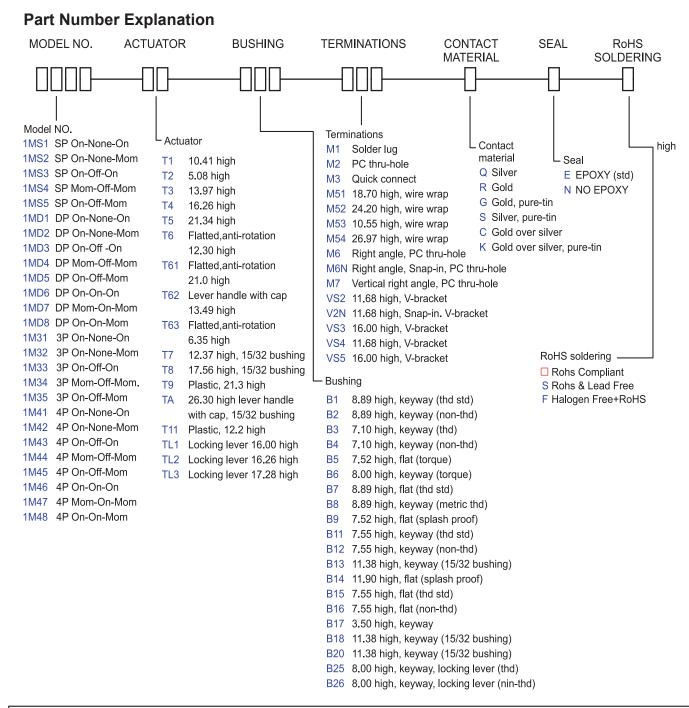
	Contact Plating	Terminal Plating	Ratings
Q	Silver	Q = Silver	
S	Silvei	S = Silver,pure - tin	5 Amps with resistant load @ 120VAC or 28VDC
С	Gold over Silver	C = Gold over silver	2 Amps with resistant load @ 250VAC
K	Gold over Sliver	K = Gold over silver,pure - tin	
R	R = Gold		0.4 Volt - Amps (VA) max.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