

Datasheet

RS PRO SPDT Toggle Switch On-On, 5 A, PCB

RS Stock number [734-7066](#)



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material :

MECHANICAL LIFE: 40,000 make-and-break cycles.

CONTACT RESISTANCE: 10m Ω max. initial @ 2-4VDC
100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000 M Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min.@sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

MATERIALS

CASE: Diallyl phthalate (DAP) (UL94v-0).

ACTUATOR: Brass,chrome plated.










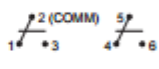
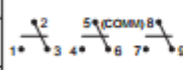
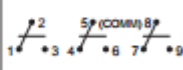
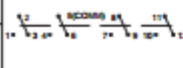
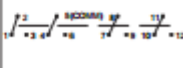
BUSHING: Brass, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass, tin plated.

CONTACT / TERMINALS: Brass, Silver or gold plated.

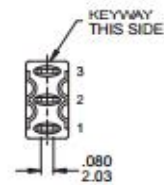
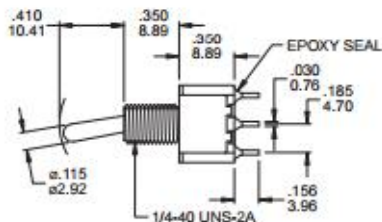
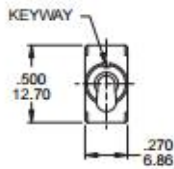
SWITCH FUNCTION

NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC					
			POS.1	POS.2	POS.3	POS.1	POS.2	POS.3			
											
SP	Q1111	1MS1	ON	NONE	ON	2-3	N/A	2-1			
	Q1112	1MS2	ON	NONE	MOM						
	Q1113	1MS3	ON	OFF	ON						
	Q1114	1MS4	MOM	OFF	MOM					OPEN	
	Q1115	1MS5	ON	OFF	MOM						
DP	Q1121	1MD1	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4			
	Q1122	1MD2	ON	NONE	MOM						
	Q1123	1MD3	ON	OFF	ON						
	Q1124	1MD4	MOM	OFF	MOM					OPEN	
	Q1125	1MD5	ON	OFF	MOM						
	Q1126	1MD6	ON	ON	ON						
	▲ Q1127	1MD7	MOM	ON	MOM						
	▲ Q1128	1MD8	ON	ON	MOM						
3P	Q1131	1M31	ON	NONE	ON	2-3,5-6,8-9	N/A	2-1,5-4,8-7			
	Q1132	1M32	ON	NONE	MOM						
	Q1133	1M33	ON	OFF	ON						
	Q1134	1M34	MOM	OFF	MOM					OPEN	
	Q1135	1M35	ON	OFF	MOM						
4P	Q1141	1M41	ON	NONE	ON	2-3,5-6,8-9,11-12	N/A	2-1,5-4,8-7,11-10			
	Q1142	1M42	ON	NONE	MOM						
	Q1143	1M43	ON	OFF	ON						
	Q1144	1M44	MOM	OFF	MOM					OPEN	
	Q1145	1M45	ON	OFF	MOM						
	Q1146	1M46	ON	ON	ON						
	▲ Q1147	1M47	MOM	ON	MOM						
	▲ Q1148	1M48	ON	ON	MOM						

MOM= MOMENTARY

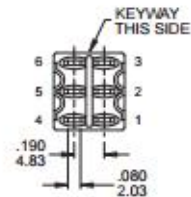
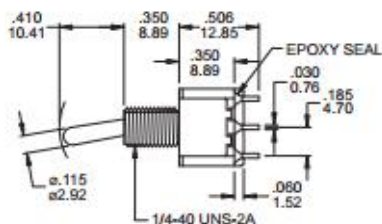
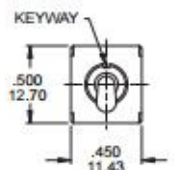
▲ Please check the availability in advance before order

POLE OPTIONS



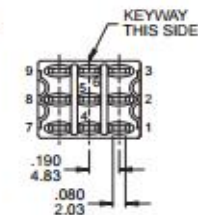
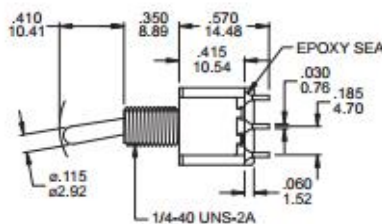
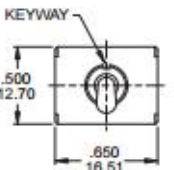
SPDT

Part No. Shown : 1MS1T1B1M1QE



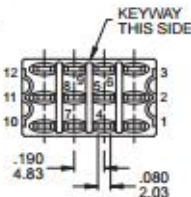
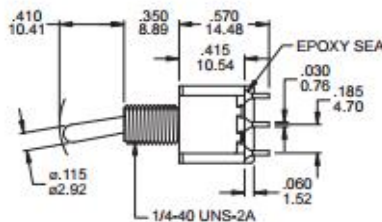
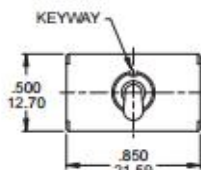
DPDT

Part No. Shown : 1MD1T1B1M1QE



3PDT

Part No. Shown : 1M31T1B1M1QE



4PDT

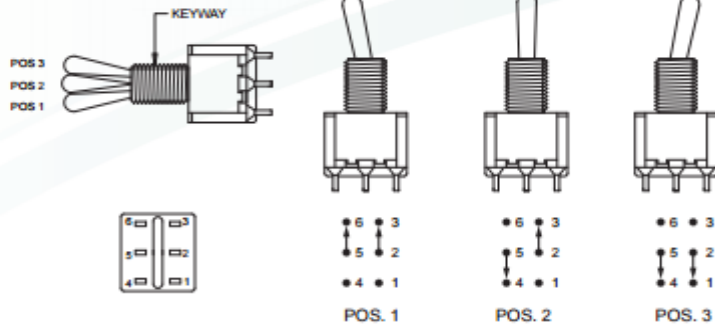
Part No. Shown : 1M41T1B1M1QE

3-WAY SWITCH

3-Way Wiring Diagram Schematics

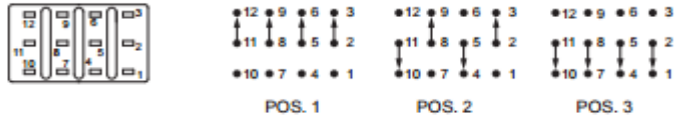
SINGLE POLE, 3 POSITION

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



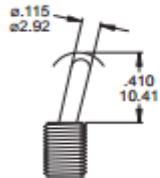
DOUBLE POLE, 3 POSITION

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

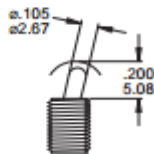


ACTUATOR OPTIONS

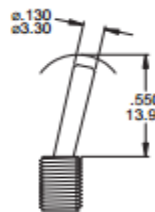
T1 STD



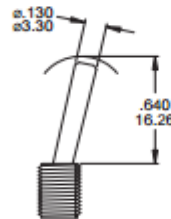
T2



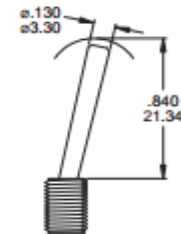
T3



T4

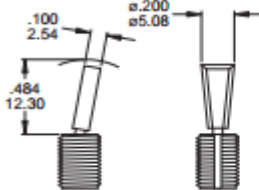


T5

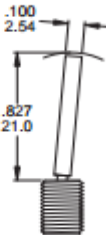


NOTE T1 ~ T5 Actuator shown with standard B1 Bushing ;
 Add .070 (1.78) for B3 Bushing ;
 Subtract .020 (0.51) for B6 Bushing ;
 Std for M1 , M2 Terminal sub .016 (0.40) for M6 , M7 , VSX

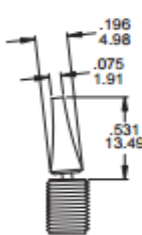
T6 FLATTED WITH ANTIROTATION



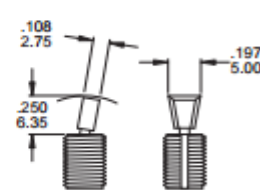
T61



T62

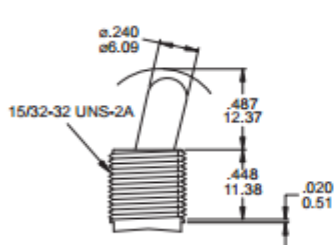


T63



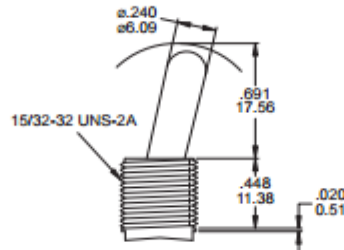
NOTE T6,T6-1,T6-2 ,T63 use with B11, B12, B15, B16 bushing only.

T7



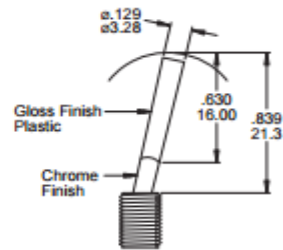
Use with B13 bushing
Use with B18,B20 the lever is antirotation and the size of lever is 13.00mm

T8



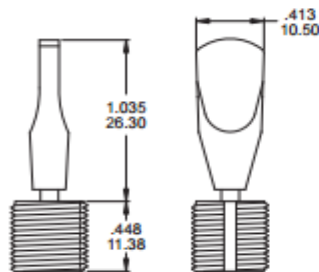
Use with B13 bushing
Use with B18,B20 the lever is antirotation and the size of lever is 18.00mm

T9



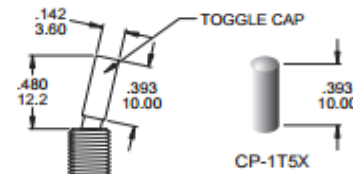
B1 / B2 bushing std with black and red color only (std.)

TA PLASTIC BLACK



Use with B18 bushing only

T11



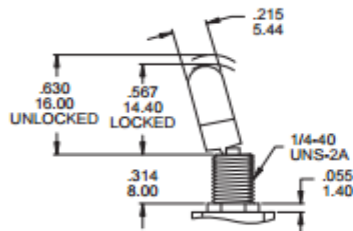
NOTE T11 Actuator shown with standard B1 Bushing ;
Add .070 (1.78) for B3 Bushing ;
Subtract .020 (0.51) for B6 Bushing.
Std for M1.M2 Terminal sub .016 (0.40) for M6.M7.VSX

Plastic No.Color :

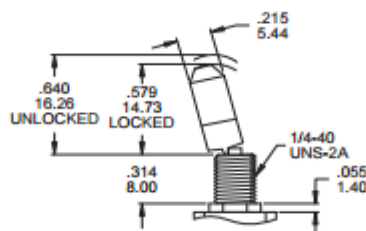
ITEM NO	COLOR
1	White
2	Black (Std)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

T82 , TA , T9 , T11 ACTUATOR ONLY

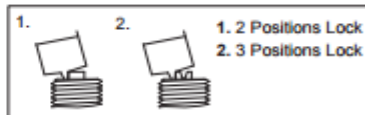
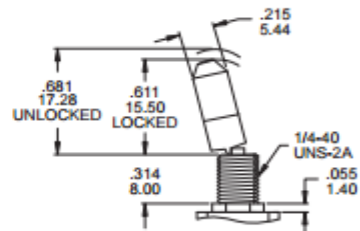
TL1B25



TL2B25

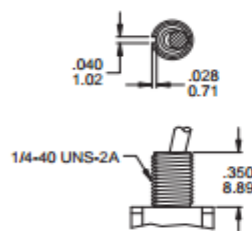


TL3B25

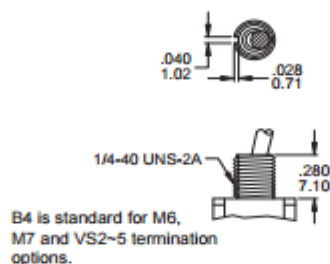


BUSHING OPTIONS

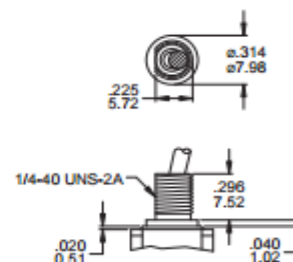
B1 THD STD
B2 NON-THD



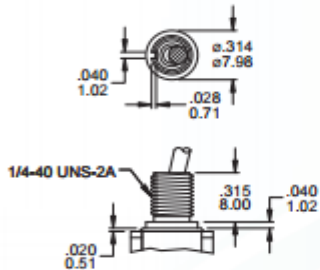
B3 THD
B4 NON-THD



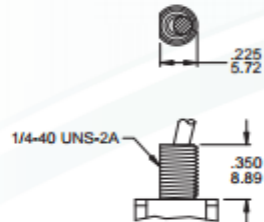
B5 HIGH TORQUE



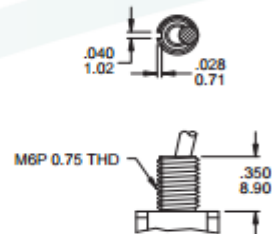
B6 HIGH TORQUE



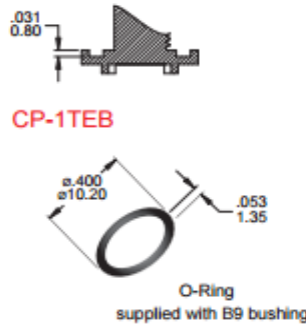
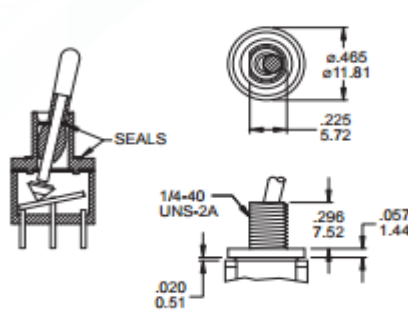
B7 THD STD



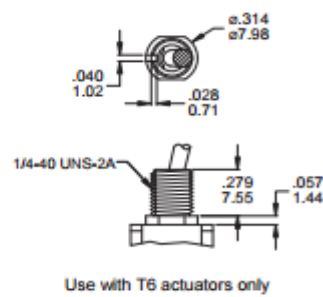
B8 METRIC THD



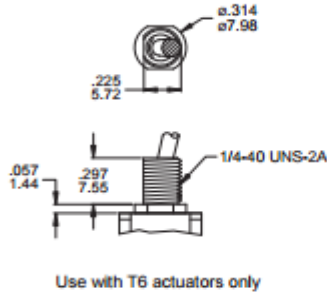
B9 SPLASH PROOF



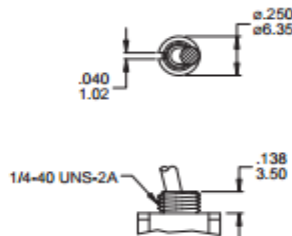
**B11 THD STD
B12 NON-THD**



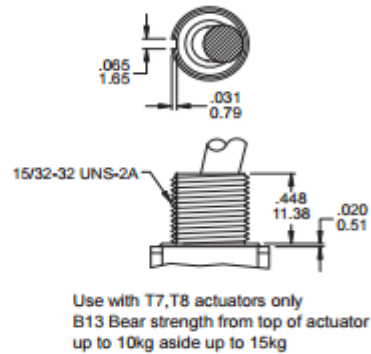
**B15 THD STD
B16 NON-THD**



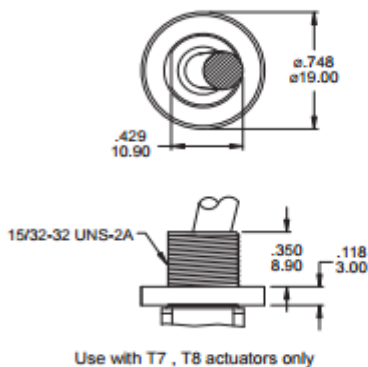
B17



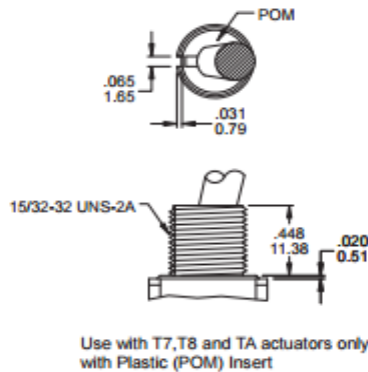
B13



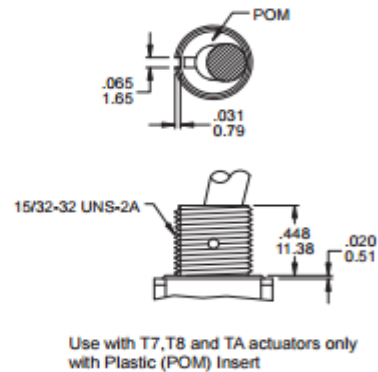
B14 SPLASH PROOF



B18



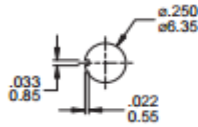
B20



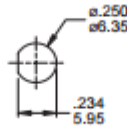
B18, B20 Bear strength from top of actuator up to 20kg aside up to 15kg

PANEL MOUNTING

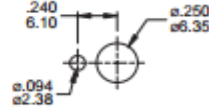
1/4 IN BUSHING



Without locking ring (Keyway)

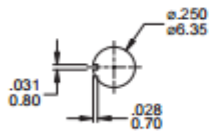


Without locking ring (Flat)

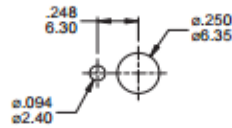


With standard locking ring.

METRIC BUSHING

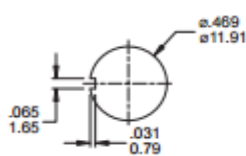


Without locking ring (Keyway)

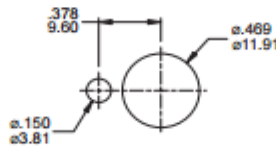


With standard locking ring.

15/32 IN BUSHING

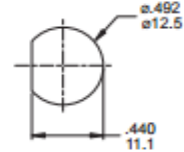


Without locking ring (Keyway)



With standard locking ring.

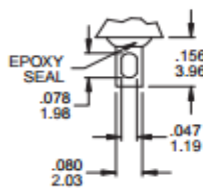
SPLASH PROOF BUSHING



Without locking ring (Flat)

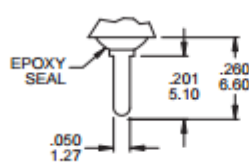
TERMINATION OPTIONS

M1 Solder lug



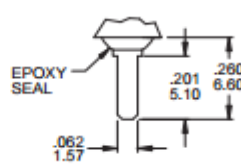
.030(0.76) THK.

M2 PC Thru-hole



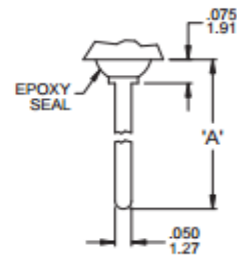
.030(0.76) THK.

M3 Quick connect



.030(0.76) THK.

M5 Wire Wrap



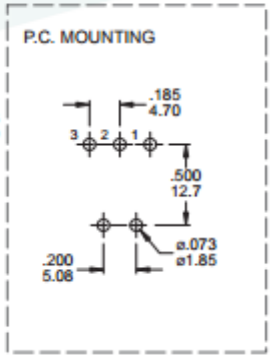
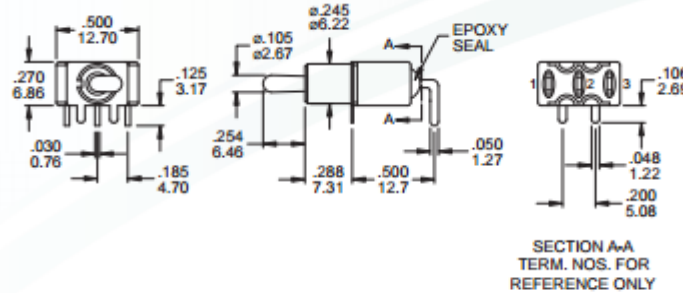
.030(0.76) THK.

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

OPTION CODE	DIM. 'A'
M5-1	.736 (18.70)
M5-2	.953 (24.20)
M5-3	.415 (10.55)
M5-4	1.062 (26.97)

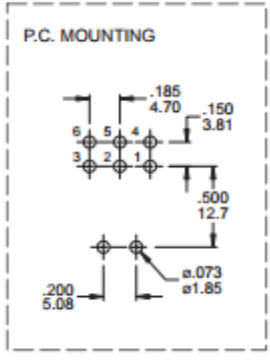
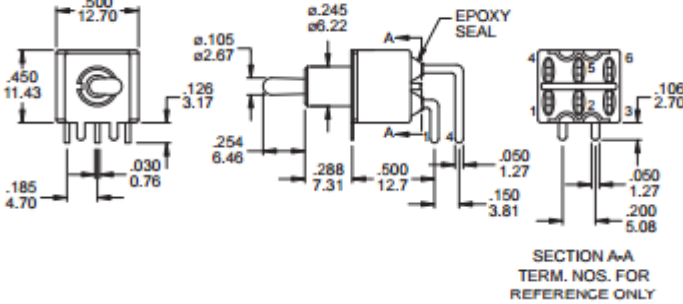
M6



SPDT

Part No. Shown : 1MS1T2B4M6QE

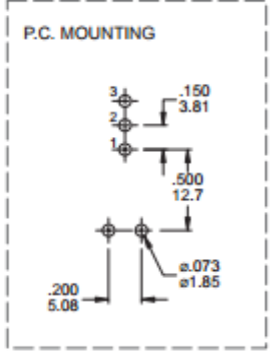
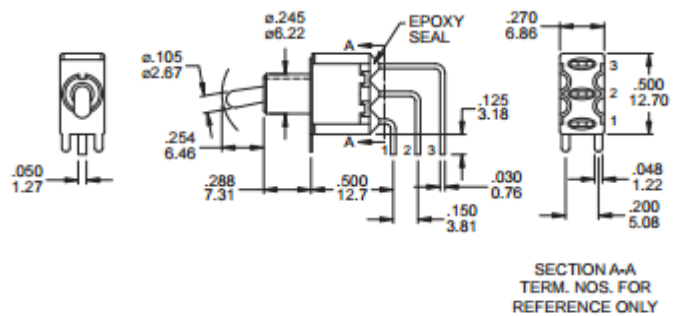
M6



DPDT

Part No. Shown : 1MD1T2B4M6RE

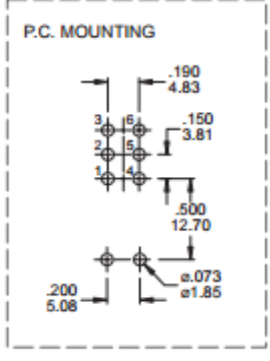
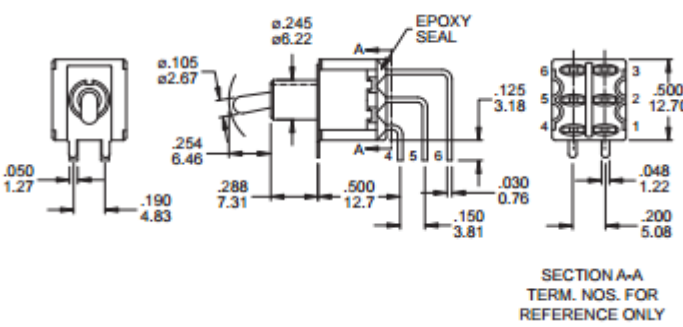
M7



SPDT

Part No. Shown : 1MS1T2B4M7QE

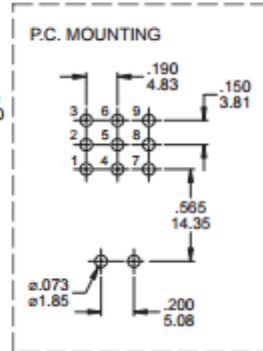
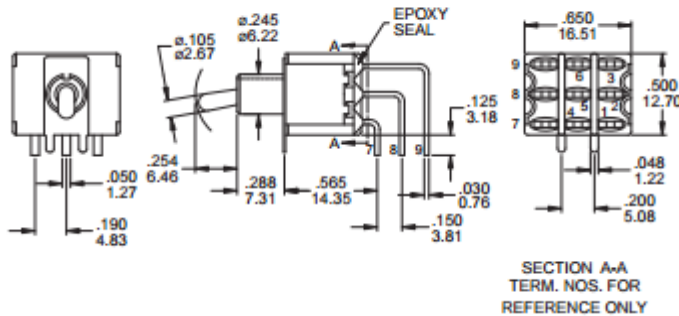
M7



DPDT

Part No. Shown : 1MD1T2B4M7QE

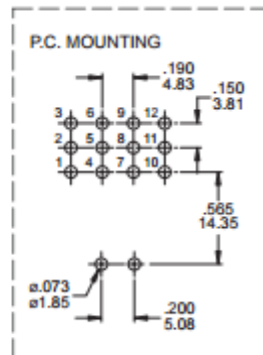
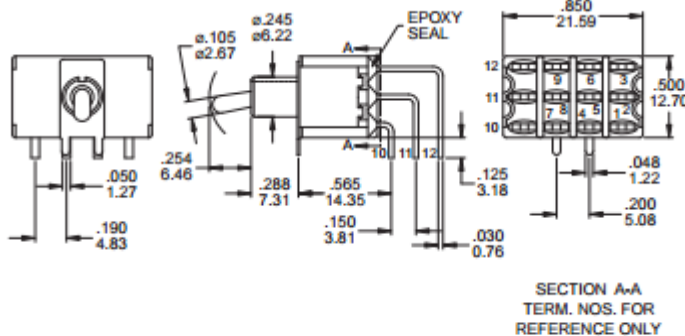
M7



3PDT

Part No. Shown : 1M31T2B4M7QE

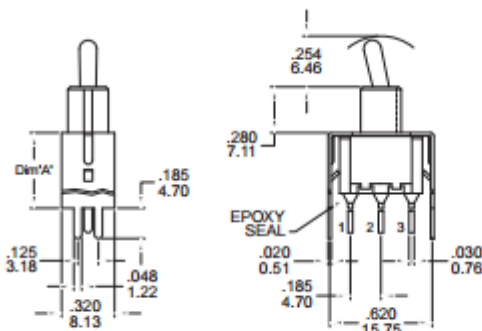
M7



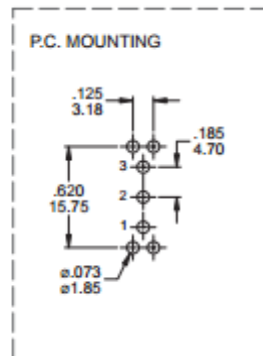
4PDT

Part No. Shown : 1M41T2B4M7QE

VS2 - VS3



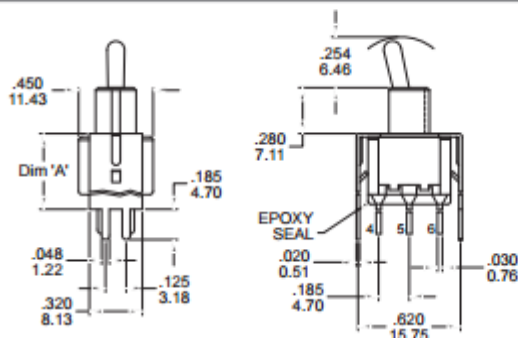
OPTION CODE	DIM. 'A'
VS2	.460 11.68
VS3	.630 16.00



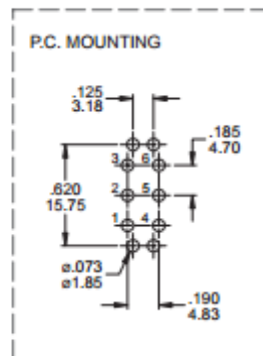
SPDT

Part No. Shown : 1MS1T2B4VS2QE

VS2 - VS3



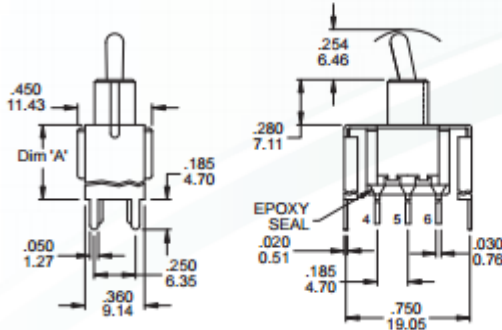
OPTION CODE	DIM. 'A'
VS2	.460 11.68
VS3	.630 16.00



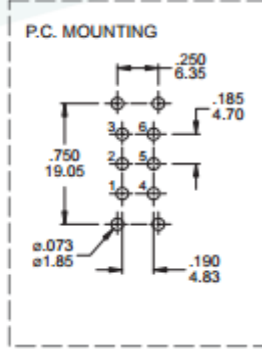
DPDT

Part No. Shown : 1MD1T2B4VS3QE

VS5



OPTION CODE	DIM. 'A'
VS4	.480 11.68
VS5	.630 16.00

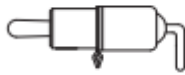


DPDT

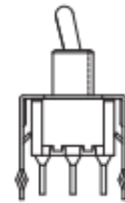
Part No. Shown : 1MD1T2B4VS5QE

SNAP-IN TERMINATION OPTIONS

M6N

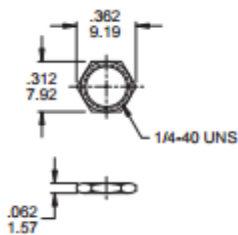


V2N



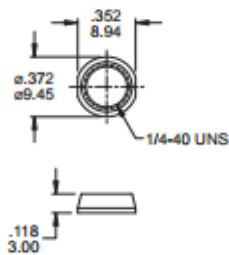
HARDWARE

1/4 NUTS HDW2

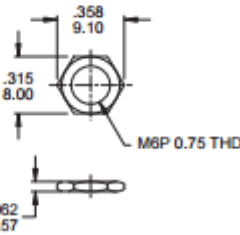


Supplied standard with B1, B3, B5, B6 and B9 options

DRESS NUT HDW3

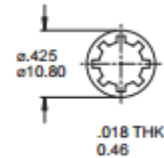


METRIC NUT HDW6



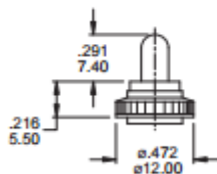
Supplied standard with B8 metric bushing

LOCK WASHER HDW11



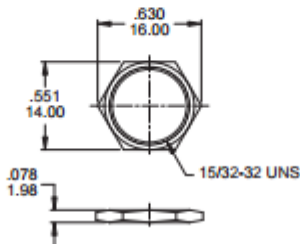
Supplied standard with B1 / B3 bushing

OPTIONAL RUBBER HOOD SEALING



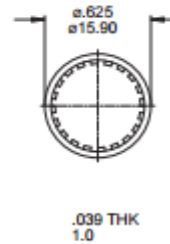
K1=Metric
E1=Inch (Std.)
for actuator T1, T2 and B1, B3, B5, B6 Bushing only

15/32 NUTS HDW4



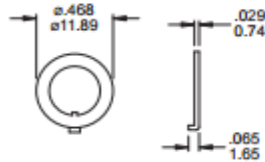
Supplied standard with B13 bushing

LOCK WASHER HDW12



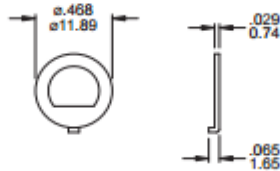
Supplied standard with B13 bushing

HDW15



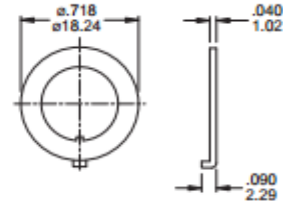
Locking ring supplied standard

HDW16



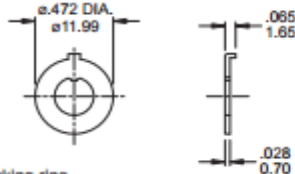
Locking ring supplied with B5 bushing

HDW17



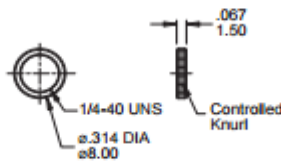
Locking ring supplied with B13,B18,B20 bushing

HDW18



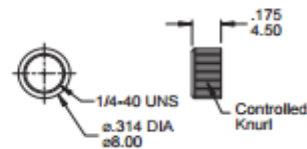
Locking ring supplied with B8 bushing

HDW19



NU-1M18

HDW20



NU-1M24

OPTIONAL TOGGLE CAP

CP-T1XX



Use with T1

CAP Color :

ITEM NO	COLOR
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	5 Amps with resistant load @ 120VAC or 28VDC
S		S = Silver,pure - tin	
C	Gold over Silver	C = Gold over silver	2 Amps with resistant load @ 250VAC
K		K = Gold over silver,pure - tin	
R	Gold	R = Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)
G		G = Gold,pure - tin	

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)