



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See page 11.

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

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

INSULATION RESISTANCE: 1,000 MΩ 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. (See Page 11)



HOW TO ORDER

MODEL NO.	ACTUATOR	BUSHING	TERMINATIONS	CONTACT MATERIAL	SEAL	RoHS SOLDERING
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> </div>	<div style="border: 1px solid black; width: 15px; height: 15px;"></div>	<div style="border: 1px solid black; width: 15px; height: 15px;"></div>	<div style="border: 1px solid black; width: 15px; height: 15px;"></div>
<p>Model NO.</p> <p>1MS1 SP On-None-On</p> <p>1MS2 SP On-None-Mom</p> <p>1MS3 SP On-Off-On</p> <p>1MS4 SP Mom-Off-Mom</p> <p>1MS5 SP On-Off-Mom</p> <p>1MD1 DP On-None-On</p> <p>1MD2 DP On-None-Mom</p> <p>1MD3 DP On-Off -On</p> <p>1MD4 DP Mom-Off-Mom</p> <p>1MD5 DP On-Off-Mom</p> <p>1MD6 DP On-On-On</p> <p>1MD7 DP Mom-On-Mom</p> <p>1MD8 DP On-On-Mom</p> <p>1M31 3P On-None-On</p> <p>1M32 3P On-None-Mom</p> <p>1M33 3P On-Off-On</p> <p>1M34 3P Mom-Off-Mom.</p> <p>1M35 3P On-Off-Mom</p> <p>1M41 4P On-None-On</p> <p>1M42 4P On-None-Mom</p> <p>1M43 4P On-Off-On</p> <p>1M44 4P Mom-Off-Mom</p> <p>1M45 4P On-Off-Mom</p> <p>1M46 4P On-On-On</p> <p>1M47 4P Mom-On-Mom</p> <p>1M48 4P On-On-Mom</p>	<p>Actuator</p> <p>T1 10.41 high</p> <p>T2 5.08 high</p> <p>T3 13.97 high</p> <p>T4 16.26 high</p> <p>T5 21.34 high</p> <p>T6 Flatted, anti-rotation</p> <p>T61 Flatted, anti-rotation</p> <p>T62 Level handle with cap</p> <p>T63 Flatted, anti-rotation</p> <p>T7 12.37 high, 15/32 bushing</p> <p>T8 17.56 high, 15/32 bushing</p> <p>T9 Plastic, 21.3 high</p> <p>TA 26.30 high lever handle with cap, 15/32 bushing</p> <p>T11 Plastic, 12.2 high</p> <p>TL1 Locking lever 16.00 high</p> <p>TL2 Locking lever 16.26 high</p> <p>TL3 Locking lever 17.28 high</p>	<p>Bushing</p> <p>B1 8.89 high, keyway (thd std)</p> <p>B2 8.89 high, keyway (non-thd)</p> <p>B3 7.10 high, keyway (thd)</p> <p>B4 7.10 high, keyway (non-thd)</p> <p>B5 7.52 high, flat (torque)</p> <p>B6 8.00 high, keyway (torque)</p> <p>B7 8.89 high, flat (thd std)</p> <p>B8 8.89 high, keyway (metric thd)</p> <p>B9 7.52 high, flat (splash proof)</p> <p>B11 7.55 high, keyway (thd std)</p> <p>B12 7.55 high, keyway (non-thd)</p> <p>B13 11.38 high, keyway (15/32 bushing)</p> <p>B14 11.90 high, flat (splash proof)</p> <p>B15 7.55 high, flat (thd std)</p> <p>B16 7.55 high, flat (non-thd)</p> <p>B17 3.50 high, keyway</p> <p>B18 11.38 high, keyway (15/32 bushing)</p> <p>B20 11.38 high, keyway (15/32 bushing)</p> <p>B25 8.00 high, keyway, locking lever (thd)</p> <p>B26 8.00 high, keyway, locking lever (nin-thd)</p>	<p>Terminations</p> <p>M1 Solder lug</p> <p>M2 PC thru-hole</p> <p>M3 Quick connect</p> <p>M51 18.70 high, wire wrap</p> <p>M52 24.20 high, wire wrap</p> <p>M53 10.55 high, wire wrap</p> <p>M54 26.97 high, wire wrap</p> <p>M6 Right angle, PC thru-hole</p> <p>M6N Right angle, Snap-in, PC thru-hole</p> <p>M7 Vertical right angle, PC thru-hole</p> <p>VS2 11.68 high, V-bracket</p> <p>V2N 11.68 high, Snap-in. V-bracket</p> <p>VS3 16.00 high, V-bracket</p> <p>VS4 11.68 high, V-bracket</p> <p>VS5 16.00 high, V-bracket</p>	<p>Contact material</p> <p>Q Silver</p> <p>R Gold</p> <p>G Gold, pure-tin</p> <p>S Silver, pure-tin</p> <p>C Gold over silver</p> <p>K Gold over silver, pure-tin</p>	<p>Seal</p> <p>E EPOXY (std)</p> <p>N NO EPOXY</p>	<p>RoHS soldering</p> <p><input type="checkbox"/> RoHS Compliant</p> <p><input type="checkbox"/> RoHS & Lead Free</p> <p><input type="checkbox"/> Halogen Free+RoHS</p>



SWITCH FUNCTION



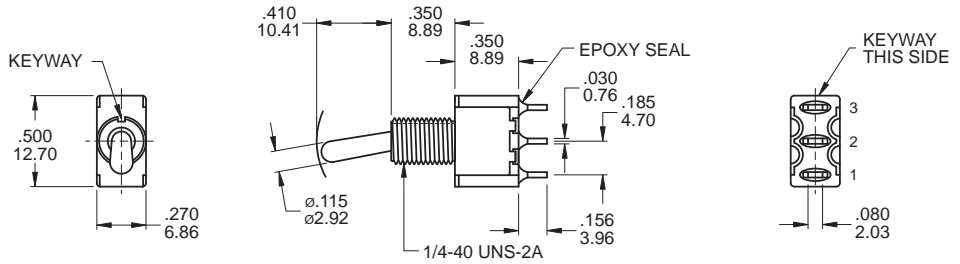
1M
Toggle Switches

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			
	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			
	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			
	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			
	Q1145	1M45	ON	OFF	MOM			
	Q1146	1M46	ON	ON	ON			
	▲ Q1147	1M47	MOM	ON	MOM			
	▲ Q1148	1M48	ON	ON	MOM			

MOM= MOMENTARY

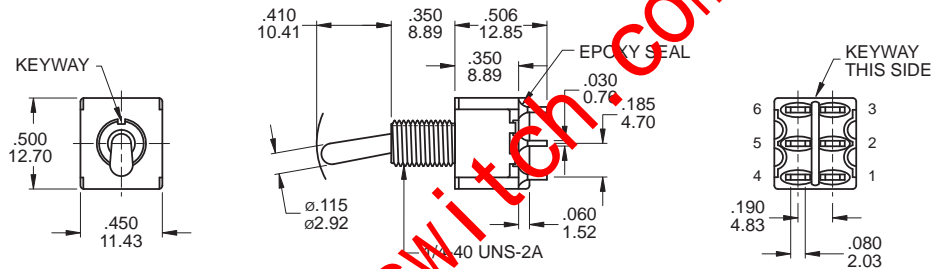
▲ Please check the availability in advance before order

POLE OPTIONS



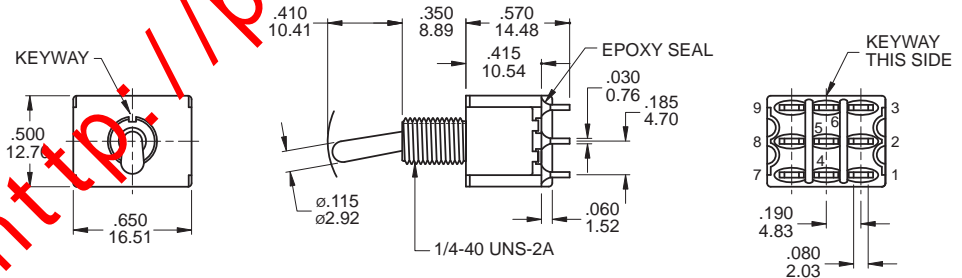
SPDT

Part No. Shown : 1MS1T1B1M1QE



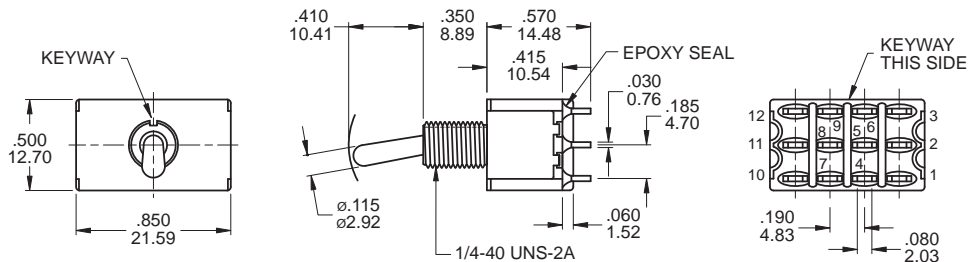
DPDT

Part No. Shown : 1MD1T1B1M1QE



3PDT

Part No. Shown : 1M31T1B1M1QE



4PDT

Part No. Shown : 1M41T1B1M1QE

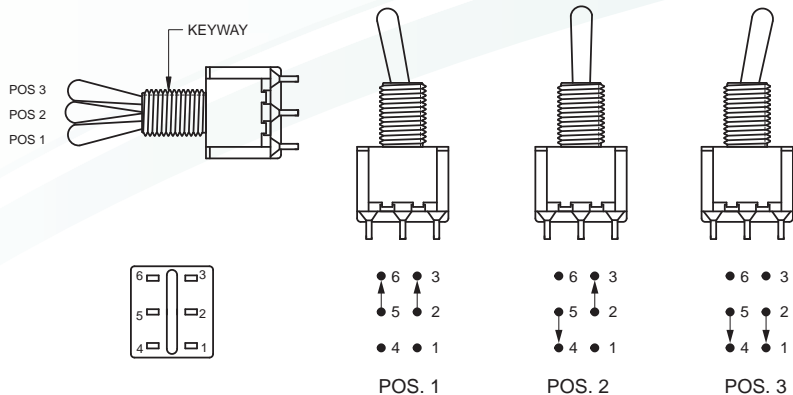
<http://pady-switch.com>



1M
Toggle Switches

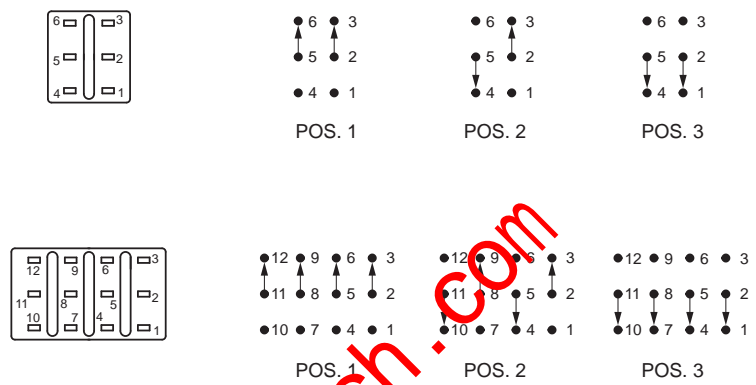
SINGLE POLE, 3 POSITION

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



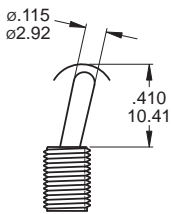
DOUBLE POLE, 3 POSITION

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

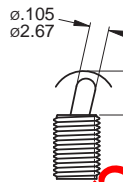


ACTUATOR OPTIONS

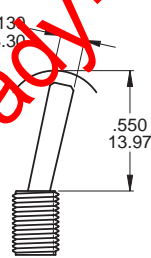
T1 STD



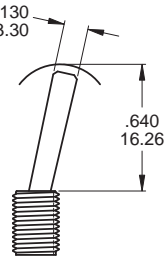
T2



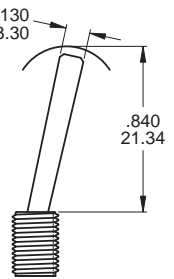
T3



T4

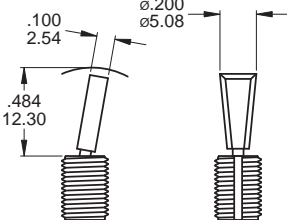


T5

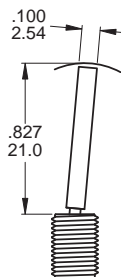


NOTE T1 ~ T5 Actuator shown with standard B1 Bushing ;
 Add .070 (1.78) for B3 Bushing ;
 Subtract .020 (0.51) for B6 Bushing ;
 Std for M1 , M2 Terminal sub .016 (0.40) for M6 , M7 , VSX

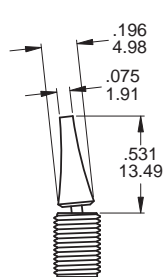
T6 FLATTED WITH ANTIROTATION



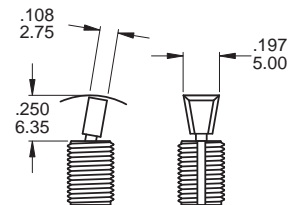
T61



T62

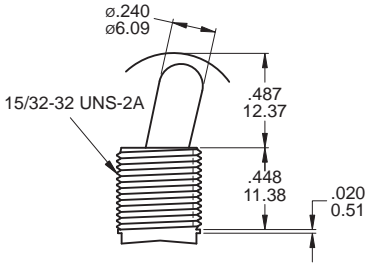


T63



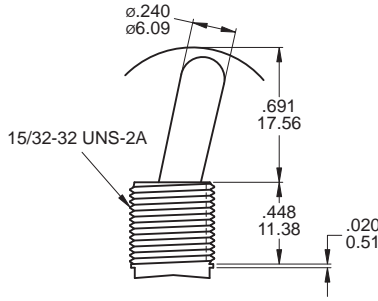
NOTE T6,T6-1,T6-2 ,T63 use with B11, B12, B15, B16 bushing only.

T7



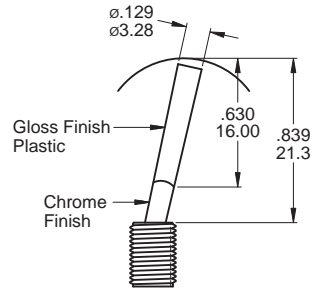
Use with B13 bushing
Use with B18,B20 the lever is antirotation and the size of lever is 13.00mm

T8



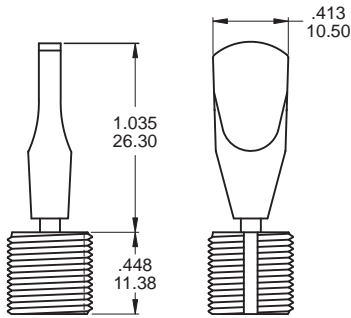
Use with B13 bushing
Use with B18,B20 the lever is antirotation and the size of lever is 18.00mm

T9



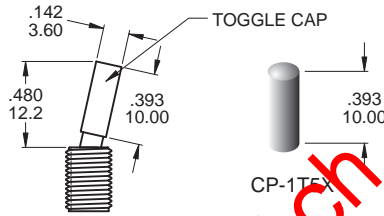
B1 / B2 bushing std with black and red color only (std.)

TA PLASTIC BLACK



Use with B18 bushing only

T11



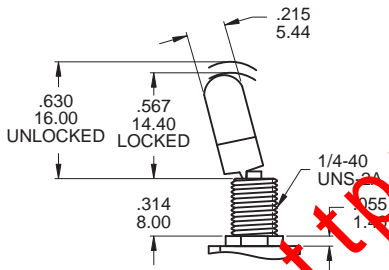
NOTE T11 Actuator shown with standard B1 Bushing ;
Add .070 (1.78) for B3 Bushing ;
Subtract .020 (0.51) for B6 Bushing.
Std for M1.M7 Terminal sub .016 (0.40) for M6.M7.VSX

Plastic No.Color :

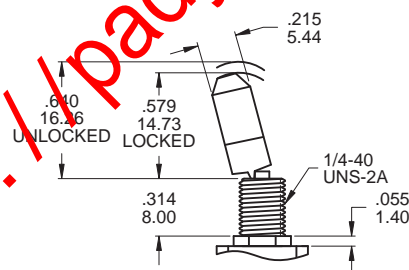
ITEM NO	COLOR
1	White
2	Black (Std)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

T62 , TA , T9 , T11 ACTUATOR ONLY

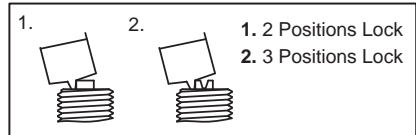
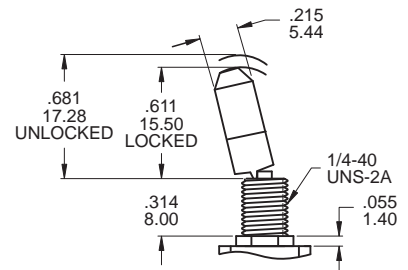
TL1B25



TL2B25

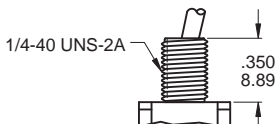
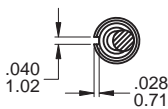


TL3B25

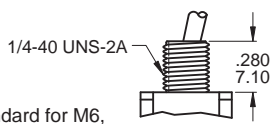
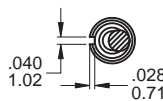


BUSHING OPTIONS

B1 THD STD
B2 NON-THD

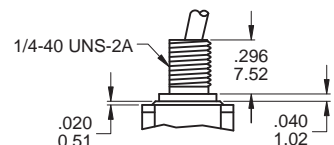
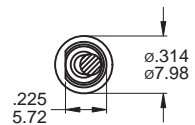


B3 THD
B4 NON-THD

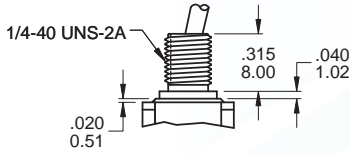
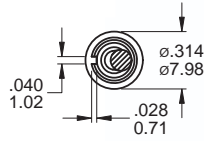


B4 is standard for M6, M7 and VS2-5 termination options.

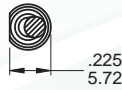
B5 HIGH TORQUE



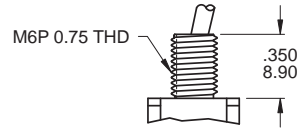
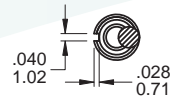
B6 HIGH TORQUE



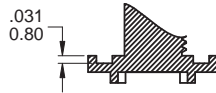
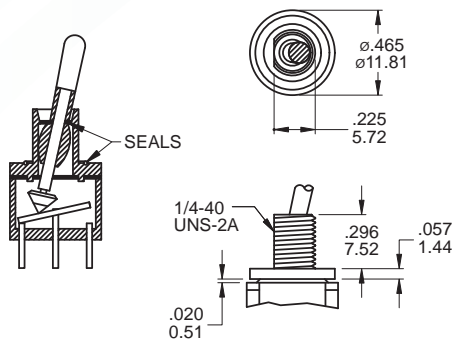
B7 THD STD



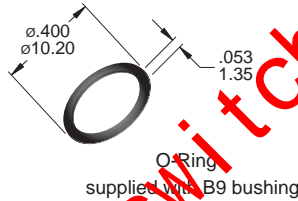
B8 METRIC THD



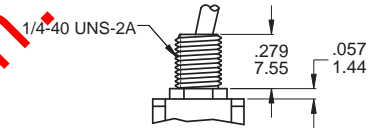
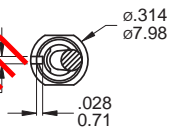
B9 SPLASH PROOF



CP-1TEB

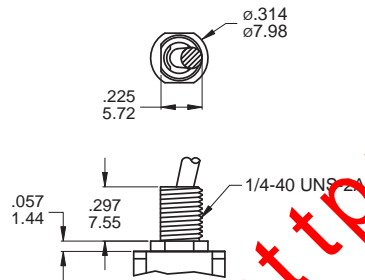


B11 THD STD B12 NON-THD



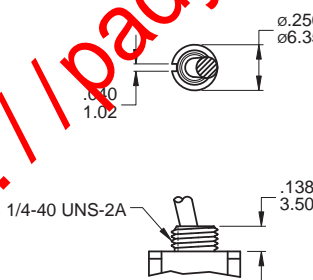
Use with T6 actuators only

B15 THD STD B16 NON-THD

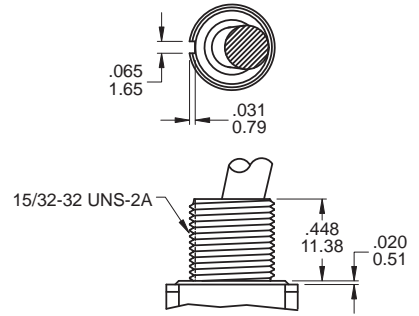


Use with T6 actuators only

B17

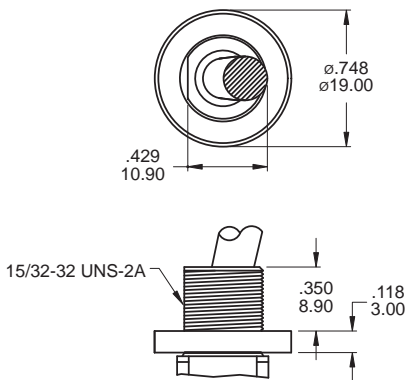


B13



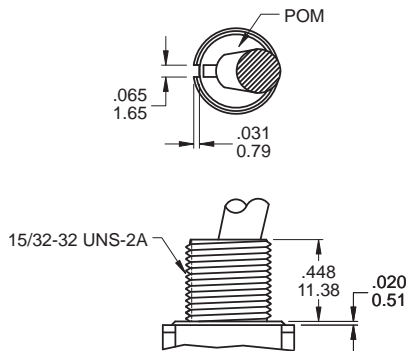
Use with T7, T8 actuators only
B13 Bear strength from top of actuator up to 10kg aside up to 15kg

B14 SPLASH PROOF



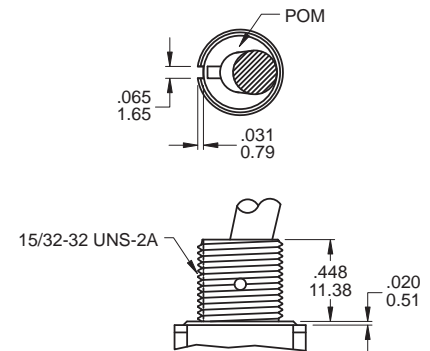
Use with T7, T8 actuators only

B18



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

B20

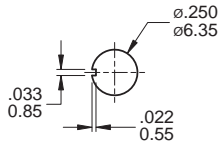


Use with T7, T8 and TA actuators only with Plastic (POM) Insert

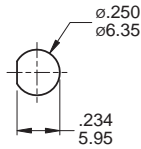
B18, B20 Bear strength from top of actuator up to 20kg aside up to 15kg

PANEL MOUNTING

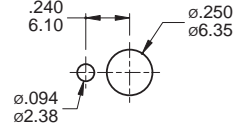
1/4 IN BUSHING



Without locking ring (Keyway)

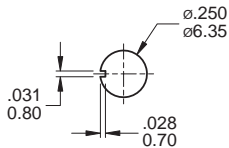


Without locking ring (Flat)

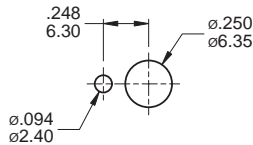


With standard locking ring.

METRIC BUSHING

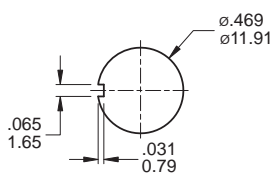


Without locking ring (Keyway)

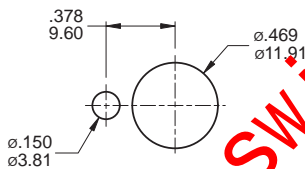


With standard locking ring.

15/32 IN BUSHING

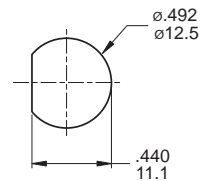


Without locking ring (Keyway)



With standard locking ring.

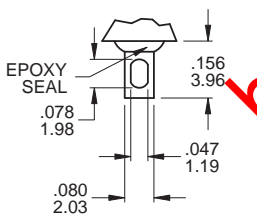
SPLASH PROOF BUSHING



Without locking ring (Flat)

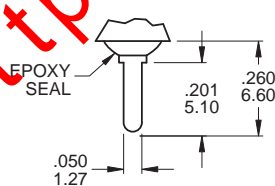
TERMINATION OPTIONS

M1 Solder lug



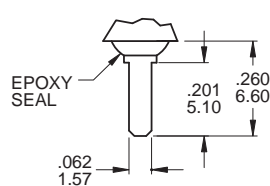
.030(0.76) THK.

M2 PC Thru-hole



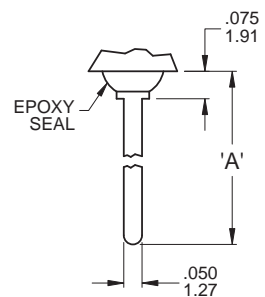
.030(0.76) THK.

M3 Quick connect



.030(0.76) THK.

M5 Wire Wrap



.030(0.76) THK.

OTHER TERMINATION OPTIONS

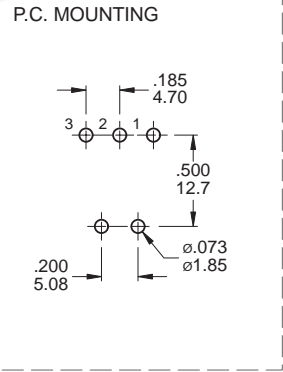
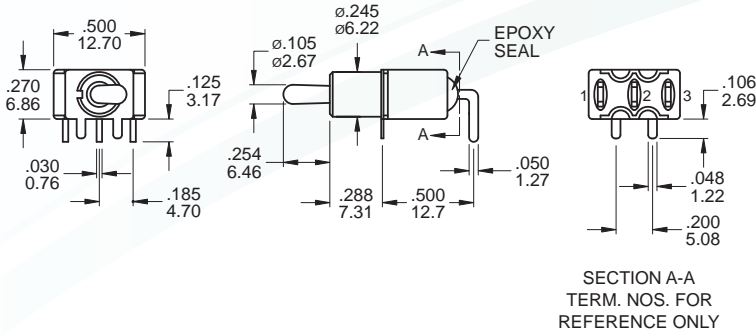
- M6 RIGHT ANGLE P.C. MOUNT
- M7 RIGHT ANGLE P.C. MOUNT
- VS2 VERTICAL BRACKET P.C. MOUNT
- VS3 VERTICAL BRACKET P.C. MOUNT
- VS5 VERTICAL BRACKET P.C. MOUNT

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)





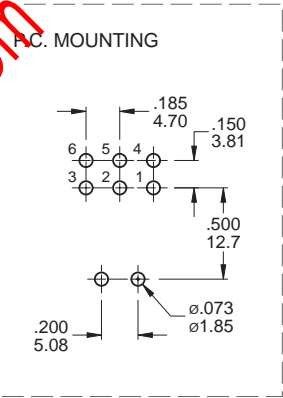
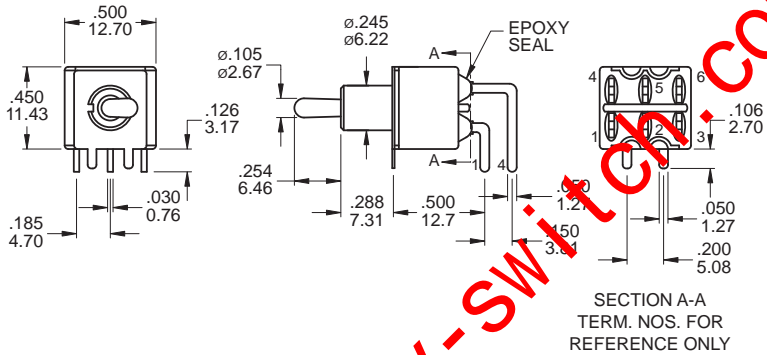
M6



SPDT

Part No. Shown : 1MS1T2B4M6QE

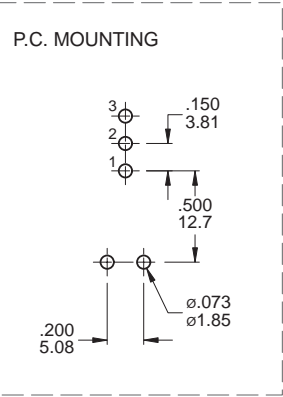
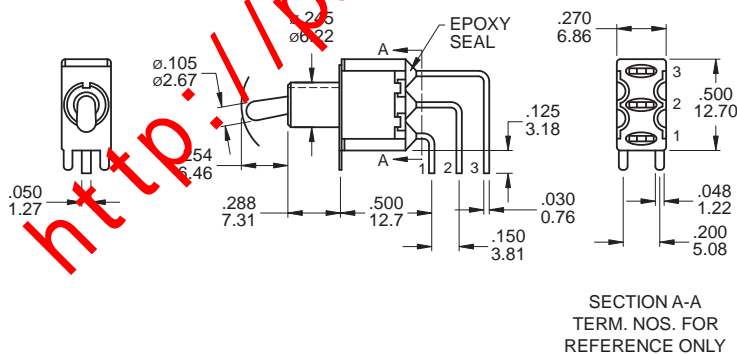
M6



DPDT

Part No. Shown : 1MD1T2B4M6RE

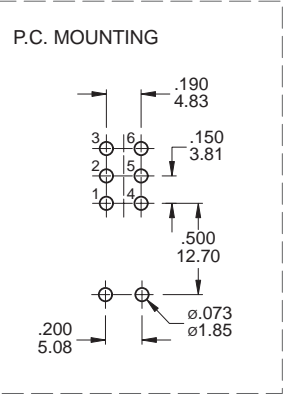
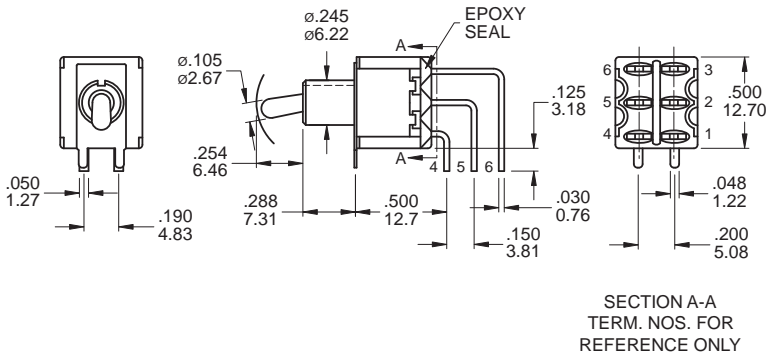
M7



SPDT

Part No. Shown : 1MS1T2B4M7QE

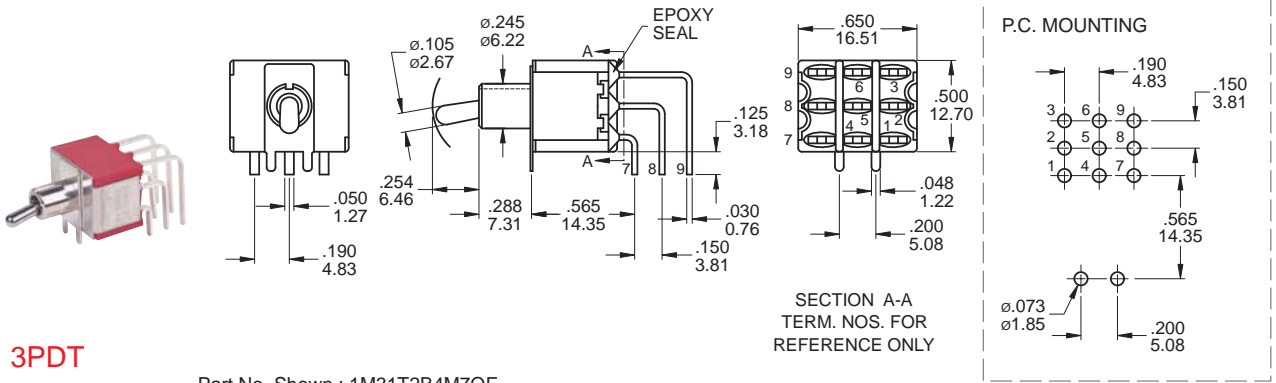
M7



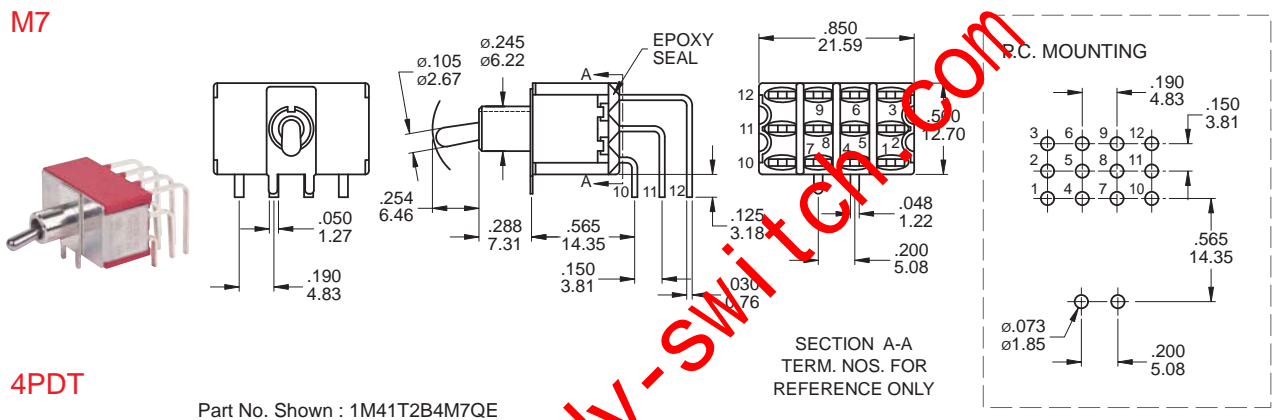
DPDT

Part No. Shown : 1MD1T2B4M7QE

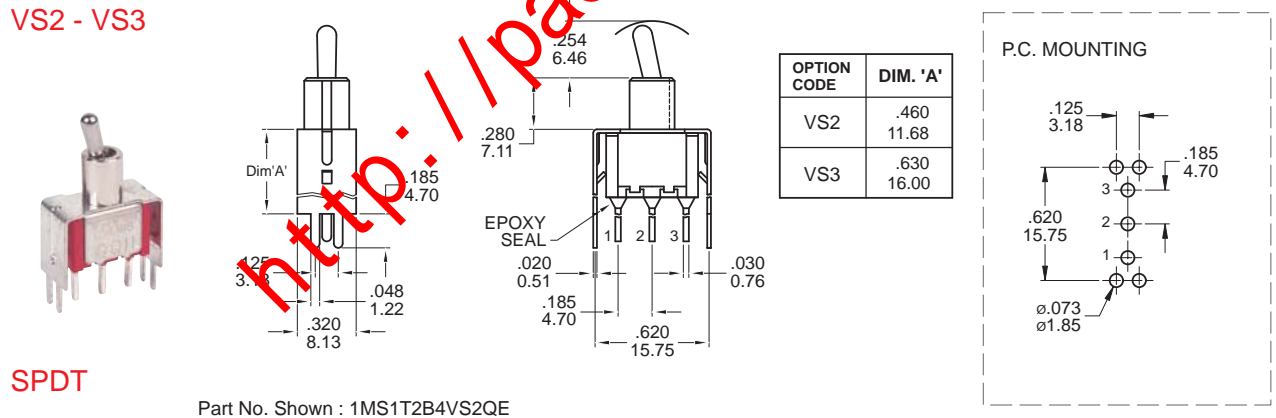
M7



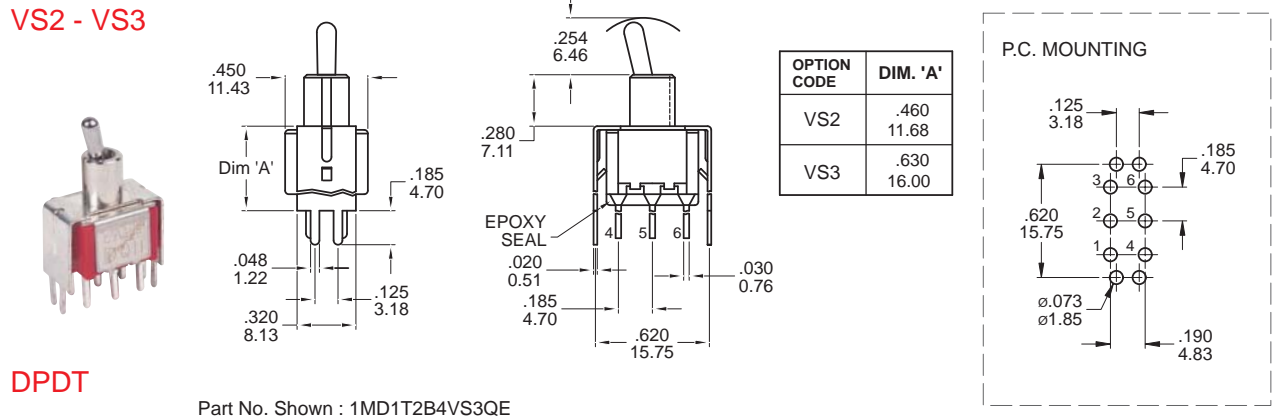
M7



VS2 - VS3

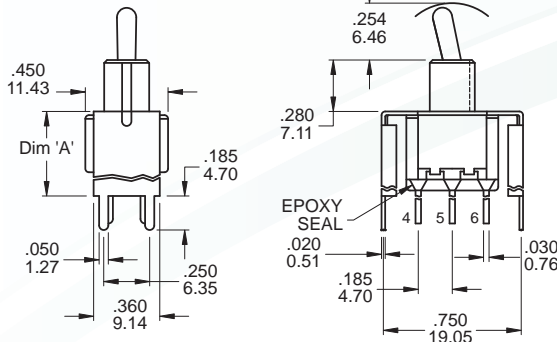


VS2 - VS3



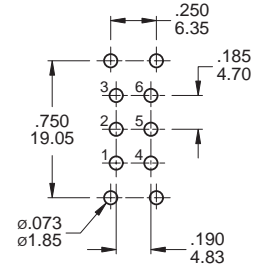


VS5



OPTION CODE	DIM. 'A'
VS4	.460 11.68
VS5	.630 16.00

P.C. MOUNTING

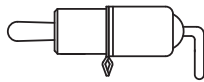


DPDT

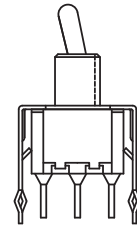
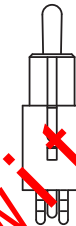
Part No. Shown : 1MD1T2B4VS5QE

SNAP-IN TERMINATION OPTIONS

M6N

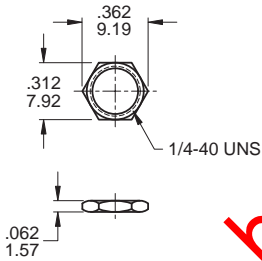


V2N



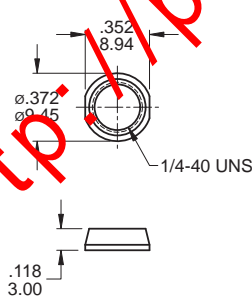
HARDWARE

1/4 NUTS HDW2

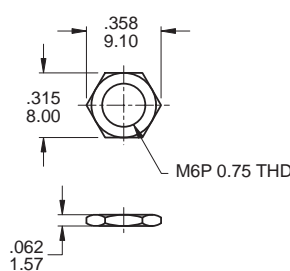


Supplied standard with B1, B3, B5, B6 and B9 options

DRESS NUT HDW3

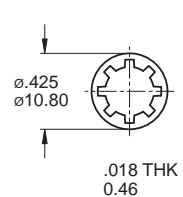


METRIC NUT HDW6



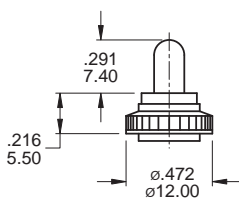
Supplied standard with B8 metric bushing

LOCK WASHER HDW11



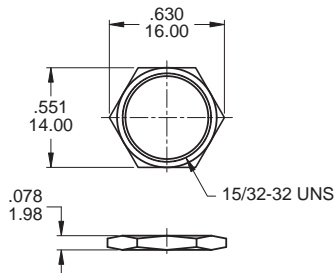
Supplied standard with B1 / B3 bushing

OPTIONAL RUBBER HOOD SEALING



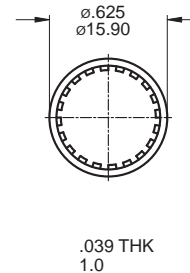
K1=Metric
E1=Inch (Std.)
for actuator T1, T2 and
B1, B3, B5, B6 Bushing only

15/32 NUTS HDW4



Supplied standard with B13 bushing

LOCK WASHER HDW12

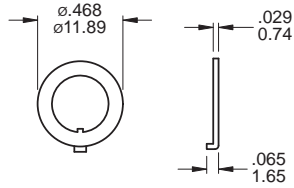


Supplied standard with B13 bushing

<http://pady-switch.com>

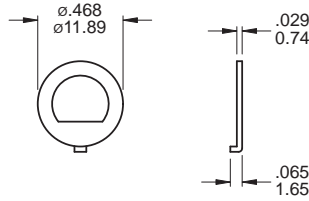


HDW15



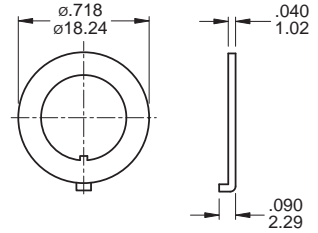
Locking ring supplied standard

HDW16



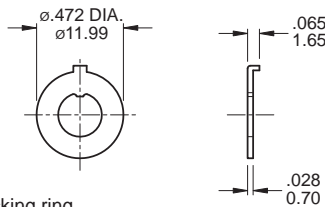
Locking ring supplied with B5 bushing

HDW17



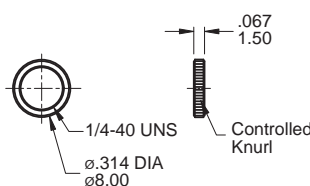
Locking ring supplied with B13,B18,B20 bushing

HDW18



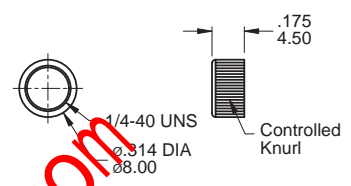
Locking ring supplied with B8 bushing

HDW19



NU-1M18

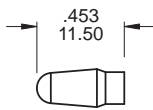
HDW20



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)