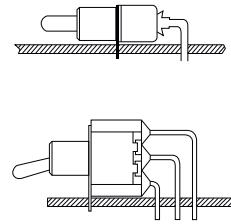


Specifications	
Contact rating	5 A @ 125 VAC or 28 VDC (for plating: silver)
Durability	50000 cycles at full load
Contact resistance	10 mΩ max. initial @ 3 VDC, 100 mA
Insulator resistance	1000 MΩ min.
Dielectrical withstanding	1500 VAC
Operation temperature	-30 °C to +85 °C
Materials	
Case	Diallyl phthalate (DAP)
Bushing	Copper alloy, plating: nickel
Toggle handle	Copper alloy, plating: chrome
Housing	Stainless steel
Contact and terminal	Copper alloy, plating: see order code and table



Right angle type - part numbering guide

S W - T 8 0 1 9 L - T N Q - E - S - T 2 - 2 - H

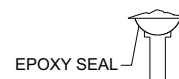
Right Angle Horizontal	Right Angle Vertical	Switch Function	Actuator		Bushing		Contact Plating		Actuator Cap	
T8019 T8019A T8020 T8020A T8020B T8021 T8021A T8022 T8022A T8022B T8301P(A) T8303P(A) T8305P(A) T8307P(A) T8309P(A)	T8019L T8019LA T8020L T8020LA T8020LB T8021L T8021LA T8022L T8022LA T8022LB T8301P T8303P T8305P T8307P T8309P T8401P T8403P T8405P T8407P T8409P	SP on-none-on SP on-none-(on) SP on-off-on SP (on)-off-(on) SP on-off-(on) DP on-none-on DP on-none-(on) DP on-off-on DP (on)-off-(on) DP on-off-(on) 3P on-none-on 3P on-none-(on) 3P on-off-on 3P (on)-off-(on) 3P on-off-(on) 4P on-none-on 4P on-none-(on) 4P on-off-on 4P (on)-off-(on) 4P on-off-(on)	S 10.41 T 5.08 X 13.97 W 21.34 V 16.26	Flatted Toggle		E (STD) 8.89 M (non-thd) 8.89 K (metric) 8.89 F 7.10 N (non-thd) 7.10 G 7.52 G1 (non-thd) 7.52 H 8.00 H1 (non-thd) 8.00 H2 (metric) 8.00 J (long) 9.60 J1 (non-thd) 9.60 L (splash-proof) 7.47	Q silver (std.) R gold G gold over silver K tin	(none) T1 -10.58 (actuator S) T2 - 7.56 (actuator T)		
3-way Position Switches			Locking Lever		none		Epoxy Seal		Cap Color	
T822 T822A T822B	T822L T822LA T822LB T845P T847P T849P	SP3T on-on-on SP3T (on)-on-(on) SP3T on-on-(on) DP3T on-on-on DP3T (on)-on-(on) DP3T on-on-(on)	U 11.43 U1 7.2 U2 21.30	the actuator: LK/LK1 No requirement to choose the bushing unless the splash proof (L) LKL/LK1L and the non-thd (N) LKN/LK1N		E none seal E epoxy seal		0 transparent 1 white 2 black 3 red 4 orange 5 yellow 6 green 7 blue		
			LK LK1 Round top(thd) Flat top(thd)				Support Bracket Type		RoHS Code	
							(none) std. S snap-in type		H = RoHS Compliant	

Contact material option

Code	Contact material	Terminal material	Rating
Q	Silver plated	Silver plated	5 A @ 125 V AC or 28 V DC; 3 A @ 250 V AC
R	Gold plated over nickel plated	Gold plated over nickel plated	0.4VA MAX @ 20 V AC or DC MAX
G	Gold plated over silver plated	Gold plated over silver plated	0.4 VA MAX @ 20 V AC or DC MAX or 5 A @ 125 V AC or 28 V DC; 3 A @ 250 V AC

Terminal seal option

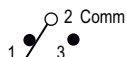
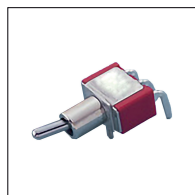
E Terminal seal



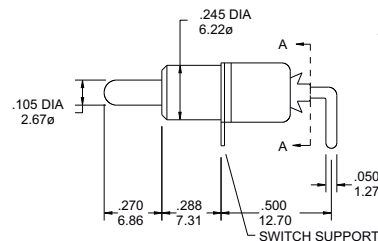
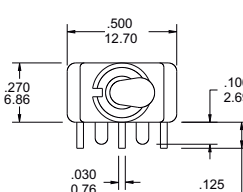
SW-T80T Series Miniature Toggle Switches Right Angle

Right angle horizontal type

SPDT

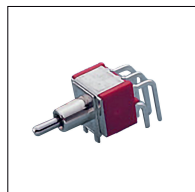


Model No.	Switching position		
T8019	ON	none	ON
T8019A	ON	none	(ON)
T8020	ON	OFF	ON
T8020A	(ON)	OFF	(ON)
T8020B	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

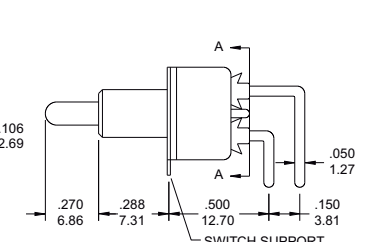
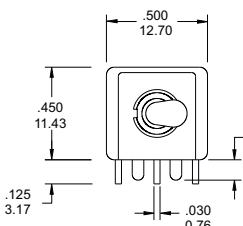


SW-T8019-TNQ

DPDT



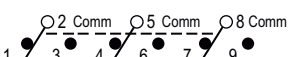
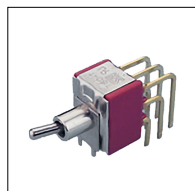
Model No.	Switching position		
T8021	ON	none	ON
T8021A	ON	none	(ON)
T8022	ON	OFF	ON
T8022A	(ON)	OFF	(ON)
T8022B	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
T822	ON	ON	ON
T822A	(ON)	ON	(ON)
T822B	ON	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4



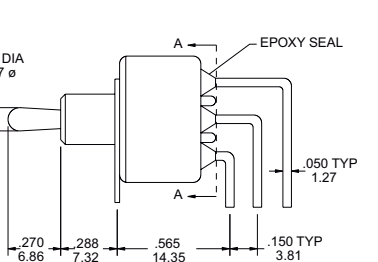
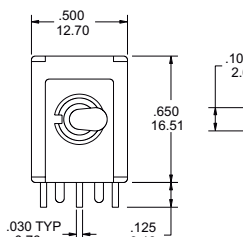
SW-T8021-TNQ

Please refer to page 6 for more info about 3-way switches

3PDT

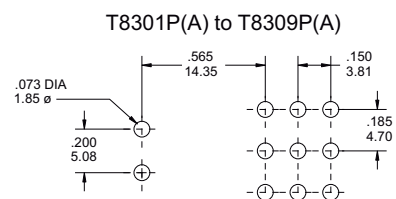
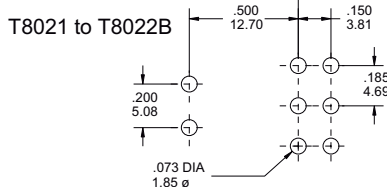
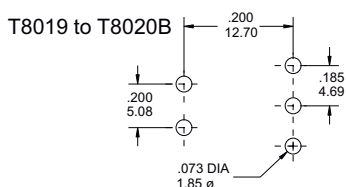


Model No.	Switching position		
T8301P(A)	ON	none	ON
T8303P(A)	ON	none	(ON)
T8305P(A)	ON	OFF	ON
T8307P(A)	(ON)	OFF	(ON)
T8309P(A)	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
	8-9		8-7

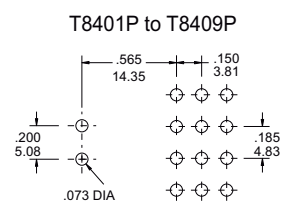
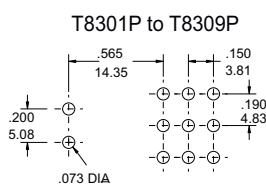
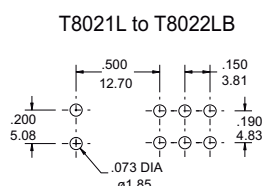
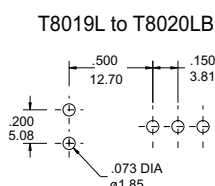


SW-T8301P(A)-TNQ

Recommended P.C.B. layout for horizontal type



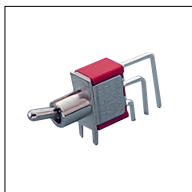
Recommended P.C.B. layout for vertical type



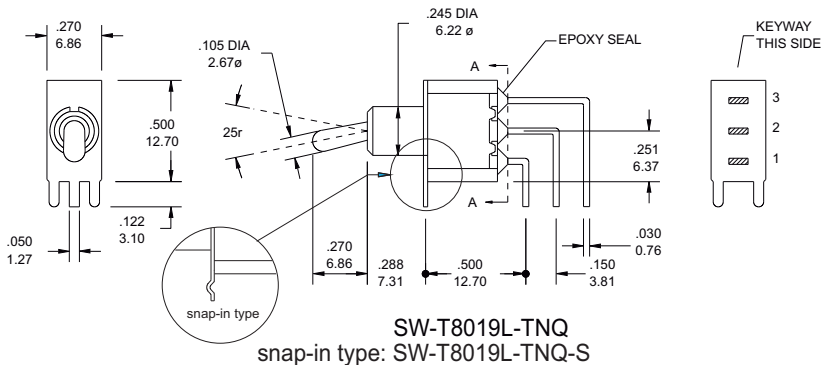
SW-T80T Series Miniature Toggle Switches Right Angle

Right angle vertical type

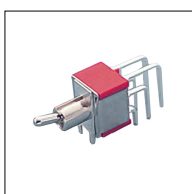
SPDT



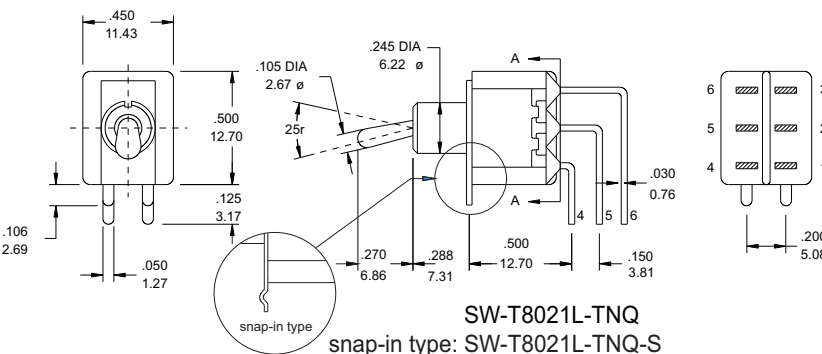
Model No.	Switching position		
T8019L	ON	none	ON
T8019LA	ON	none	(ON)
T8020L	ON	OFF	ON
T8020LA	(ON)	OFF	(ON)
T8020LB	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1



DPDT

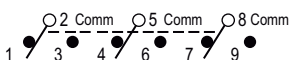
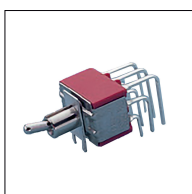


Model No.	Switching position		
T8021L	ON	none	ON
T8021LA	ON	none	(ON)
T8022L	ON	OFF	ON
T8022LA	(ON)	OFF	(ON)
T8022LB	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
T822L	ON	ON	ON
T822LA	(ON)	ON	(ON)
T822LB	ON	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

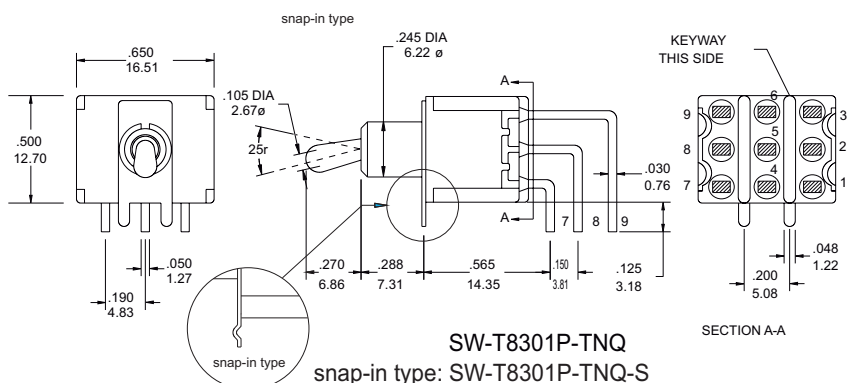


Please refer to page 6 for more info about 3-way switches

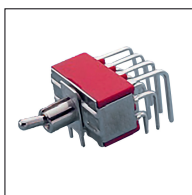
3PDT



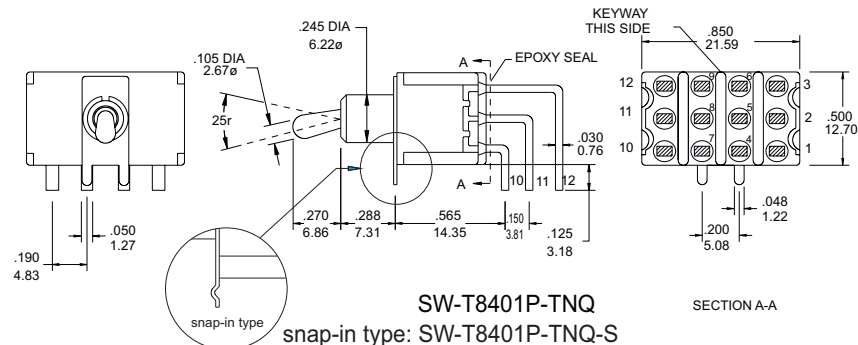
Model No.	Switching position		
T8301P	ON	none	ON
T8303P	ON	none	(ON)
T8305P	ON	OFF	ON
T8307P	(ON)	OFF	(ON)
T8309P	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9	open	2-1,5-4 8-7



4PDT



Model No.	Switching position		
T8401P	ON	none	ON
T8403P	ON	none	(ON)
T8405P	ON	OFF	ON
T8407P	(ON)	OFF	(ON)
T8409P	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9,11-12	open	2-1,5-4 8-7,11-10
3 way switches (DP3T)			
T845P	ON	ON	ON
T847P	(ON)	ON	(ON)
T849P	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

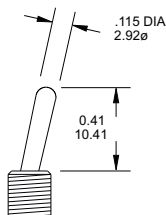


Please refer to page 6 for more info about 3-way switches

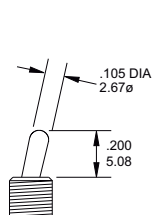


Actuator options

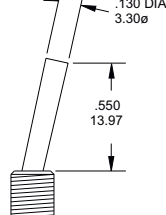
S (std.)



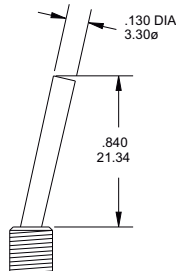
T (std.)



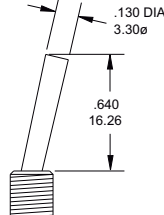
X long



W Long

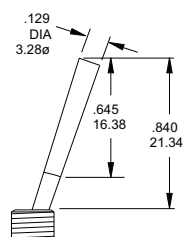


V Long



Y Plastic

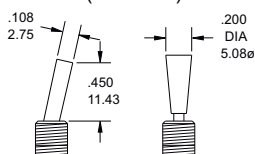
Handle color: black



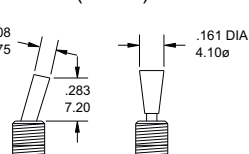
Shown height of actuator is with bushing „E“. It will be different with other bushing option.

Flatted actuator (only apply on bushing "H", "H1", "H2")

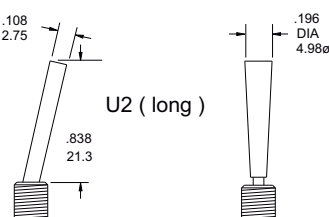
U (standard)



U1 (short)

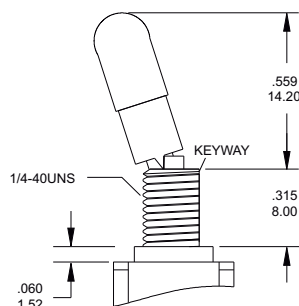


U2 (long)

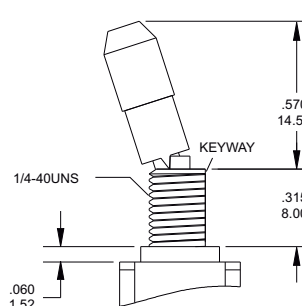


Locking Lever

LK (round top)



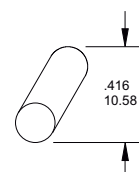
LK1 (flat top)



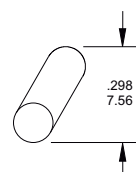
Toggle cap option

T1 for actuator „S“ only

T2 for actuator „T“



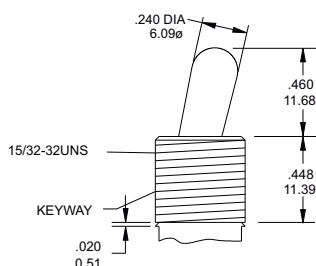
Material Vinyl



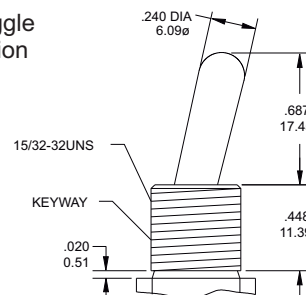
code	color	code	color	code	color	code	color
0	transparent	1	white	2	black	3	red
4	orange	5	yellow	6	green	7	blue

Bushing option code is not required unless " L " splashproof bushing is ordered

Z large toggle
Z4 antirotation

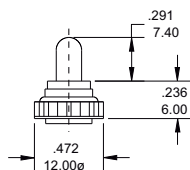


Z1 large toggle
Z3 antirotation

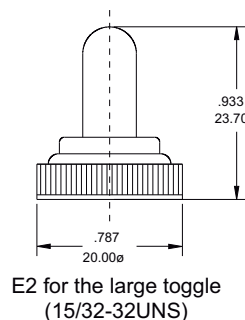


Bushing option code is not required unless " L " splashproof bushing is ordered

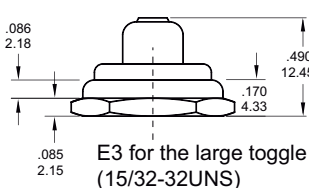
Rubber hood sealing



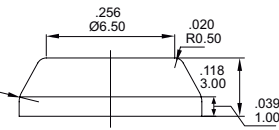
K1=METRIC
E1=INCH
E1-L=INCH



E2 for the large toggle
(15/32-32UNS)



E3 for the large toggle
(15/32-32UNS)

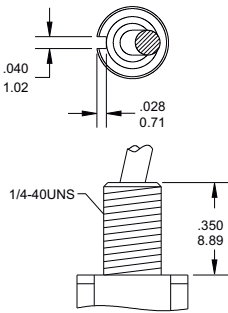


E6 O RING

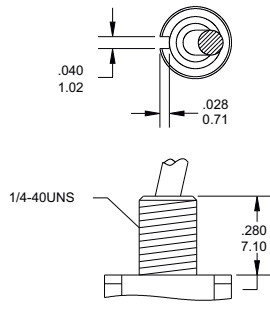


Bushing options

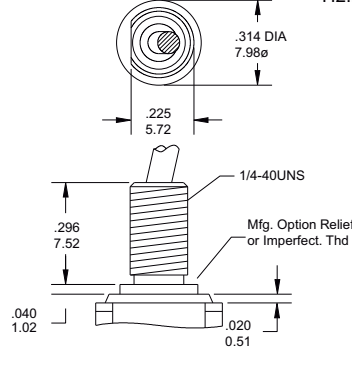
E: thread type (std.)
M: non-thread



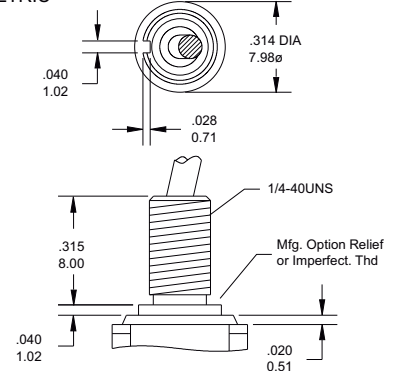
F: thread
N: non-thread



High torque
G: THD STD. TYPE
G1: NON-THD

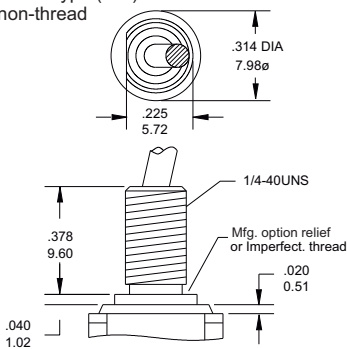


High torque
H: THD STD. TYPE
H1: NON-THD
H2: METRIC

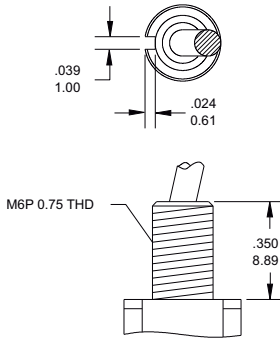


Long

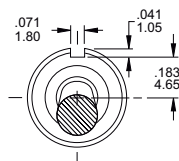
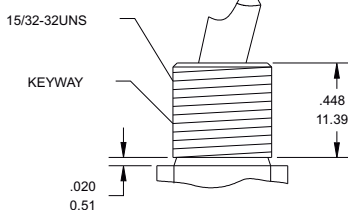
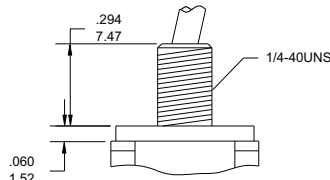
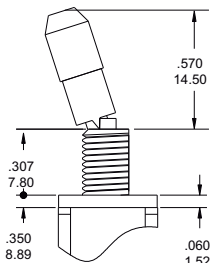
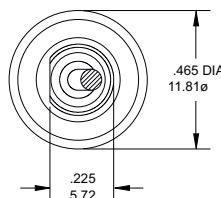
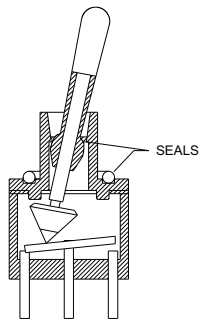
J: thread type (std.)
J: non-thread



K Metric

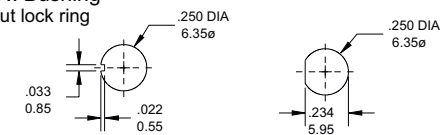


Splash water proof solution (L Splash-proof)

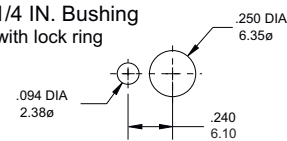


Panel mounting

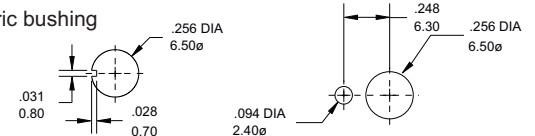
1/4 IN. Bushing
without lock ring



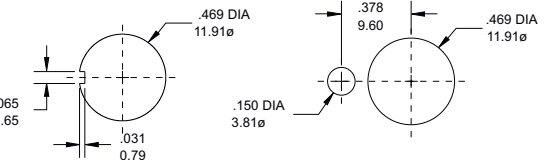
1/4 IN. Bushing
with lock ring



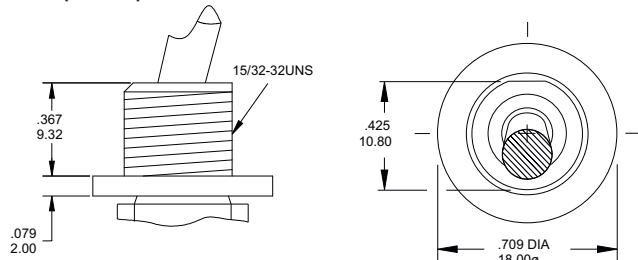
Metric bushing



15/32 IN. Bushing

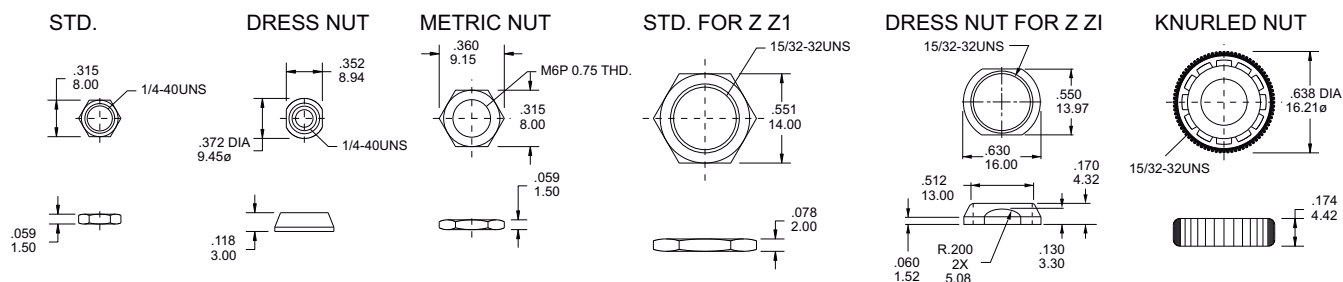


W Splash proof

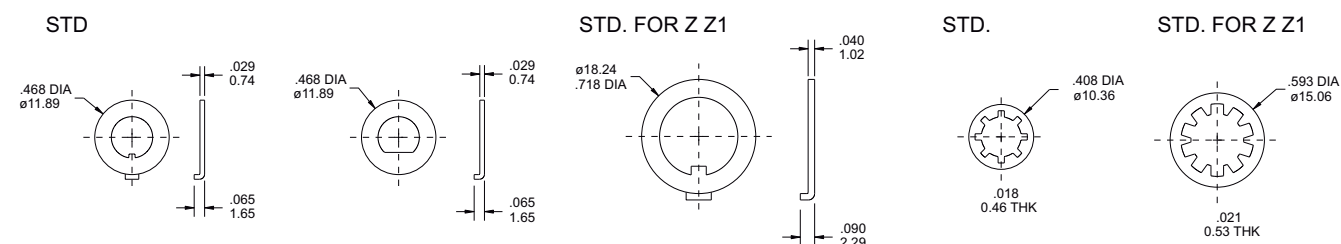


Accessories of T80T toggle switches

Nut



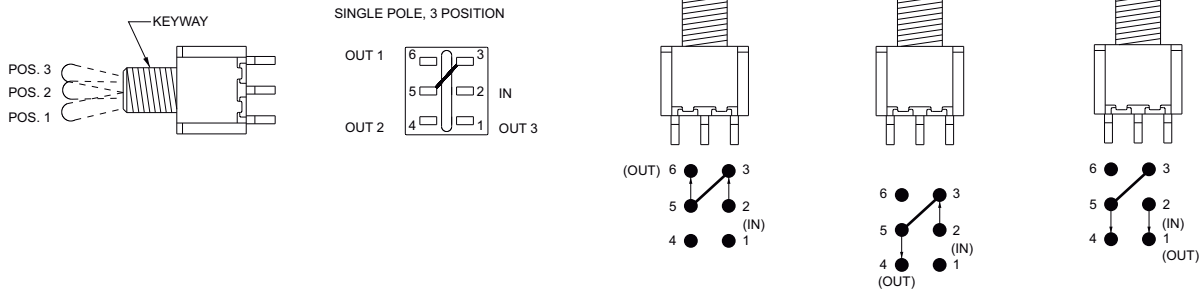
Locking ring



Lock washer

Information about 3-way toggle switches

SP3T



DP3T

