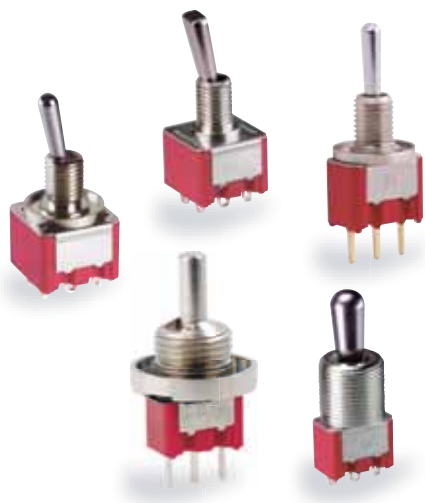


S1F Series

Miniature Toggle Switches



SPECIFICATIONS

CONTACT RATING: AC 125V 6A, AC 250V 3A ,DC 30V 3A

MECHANICAL LIFE: 200,000 make-and-break cycles DC 10V & 0.1mA.

CONTACT RESISTANCE: 10mΩmax.

INSULATION RESISTANCE: 500V 500MΩmin.

DIELECTRIC STRENGTH: 1,000 V RMS@sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

WATER-RESISTANCE: 100 make-and-break cycles min at10cmdepth

MATERIALS

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

ACTUATOR: Brass,chrome plated.

BUSHING: Brass,nickel plated.

HOUSING: Stainless Steel.

SWITCH SUPPORT: Brass,tin plated.

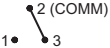
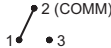
TERMINAL/CONTACT: Silver or gold plated.



HOW TO ORDER

MODEL NO.	ACTUATOR	BUSHING	TERMINATIONS	CONTACT MATERIAL	SEAL	ROHS SOLDERING
□□□□	□□	□□□	□□□	□	□	□
MODEL NO.	ACTUATOR		TERMINATIONS	CONTACT MATERIAL	SEAL	ROHS SOLDERING
S1FS1 SP On-None-On	T1 10.5 high		M1 Solder Lug	Q Silver	E EPOXY (std)	
S1FS2 SP On-None-Mom.	T2 5.4 high		M2 PC thru-hole	R Gold	N NO EPOXY	
S1FS3 SP On- Off -On	T3 14.2 high			G Gold,pure-tin		
S1FS4 SP Mom.-Off-Mom.	T4 16.4 high			S Silver,pure-tin		
S1FS5 SP On- Off -Mom.	T5 21.4 high			C Gold over silver		
S1FD1 DP On-None-On	T6 11.5 high			K Gold over silver,pure-tin		
S1FD2 DP On-None-Mom.	T61 21.5 high					
S1FD3 DP On- Off -On	T7 12.37 high					
S1FD4 DP Mom.-Off-Mom.	T8 17.56 high					
S1FD5 DP On- Off -Mom.	T12 11.2 high					
		BUSHING				
		B6 8.00 high				
		BA1 9.00 high				
		B9 7.52 high				
		B13 11.38 high				
						ROHS SOLDERING
						□ RoHS Compliant
						S RoHS & Lead Free
						F Halogen Free+RoHS

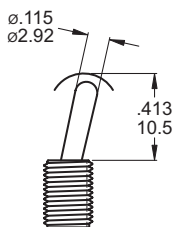
SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
		POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
							
SP	S1FS1	ON	NONE	ON	2-3 	N/A	2-1 
	S1FS2	ON	NONE	MOM			
	S1FS3	ON	OFF	ON			
	S1FS4	MOM	OFF	MOM			
	S1FS5	ON	OFF	MOM			
DP	S1FD1	ON	NONE	ON	2-3,5-6 	N/A	2-1,5-4 
	S1FD2	ON	NONE	MOM			
	S1FD3	ON	OFF	ON			
	S1FD4	MOM	OFF	MOM			
	S1FD5	ON	OFF	MOM			

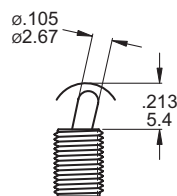
MOM=MOMENTARY

ACTUATOR OPTIONS

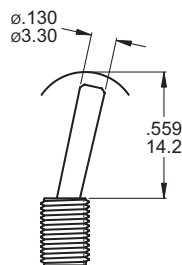
T1 STD



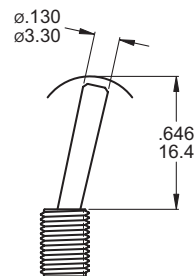
T2



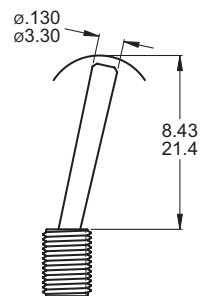
T3



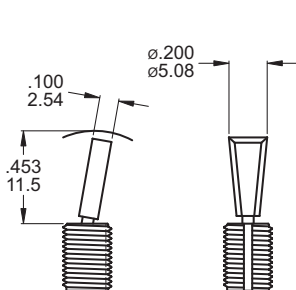
T4



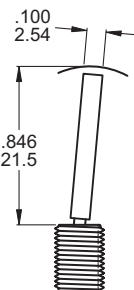
T5



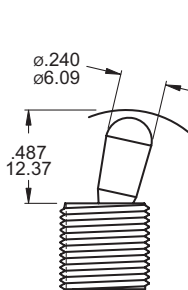
T6 FLATTED WITH ANTIROTATION



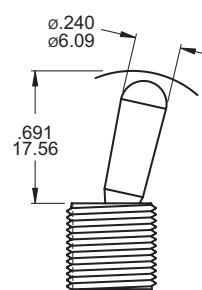
T61



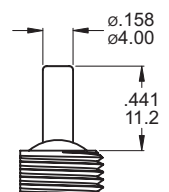
T7



T8



T12



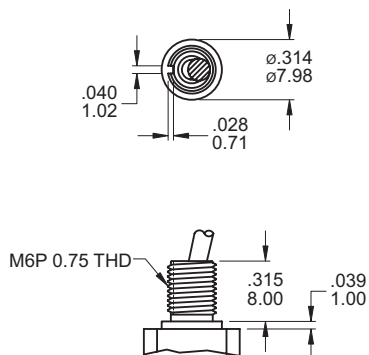
T6,T6-1 use with B6 bushing only

T7,T8 use with B13 bushing only

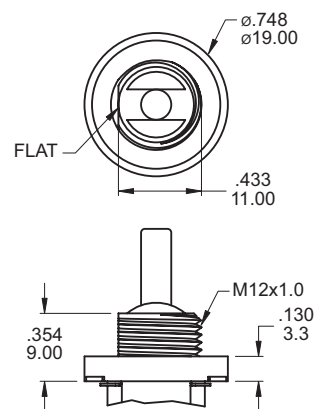
T12 use with BA1 bushing only

BUSHING OPTIONS

B6 HIGH TORQUE

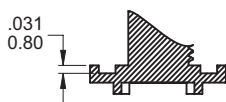
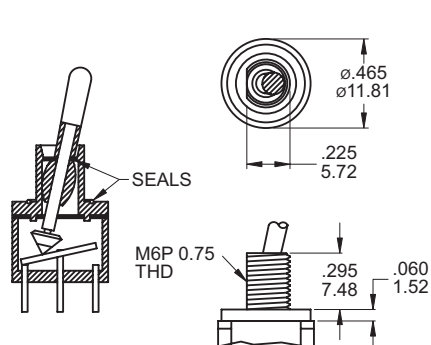


BA1 SPLASH PROOF

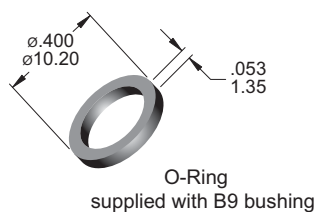


Use with T12 actuators only
BA1 Bear Strength from top of actuator
up to 10kg aside up to 15kg

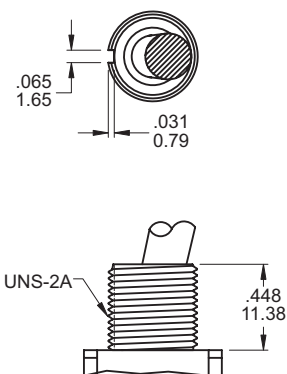
B9 SPLASH PROOF



CP-1TEB

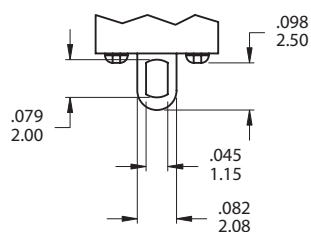


B13

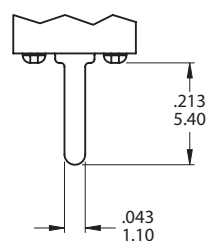


TERMINATION OPTIONS

M1 SOLDER LUG

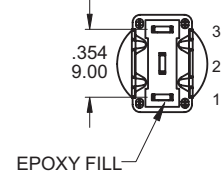
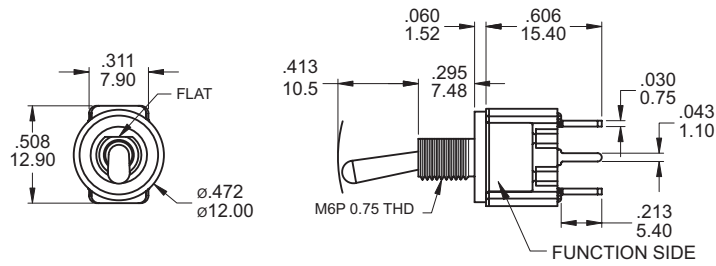


M2 PC THRU - HOLE



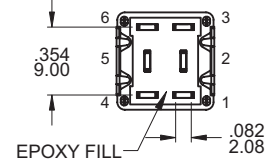
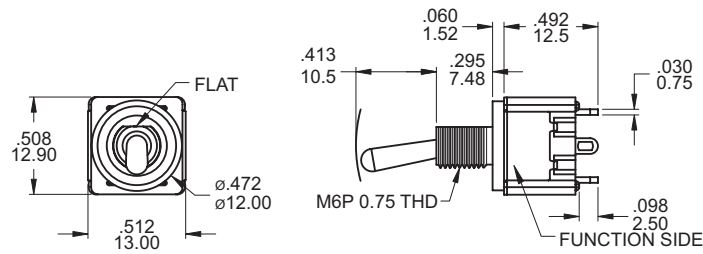
POLE OPTIONS

SPDT



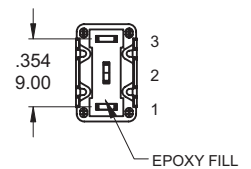
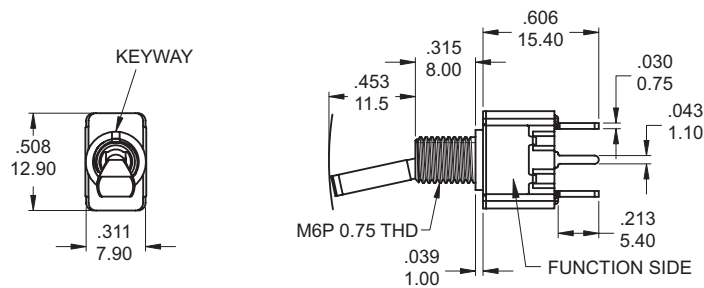
Part No. Shown : S1FS1T1B9M2RES

DPDT



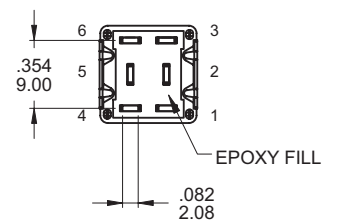
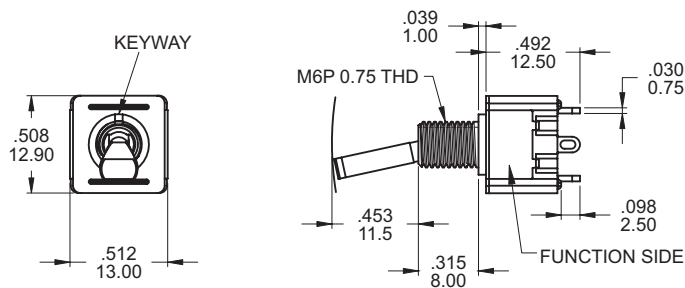
Part No. Shown : S1FD1T1B9M1QES

SPDT



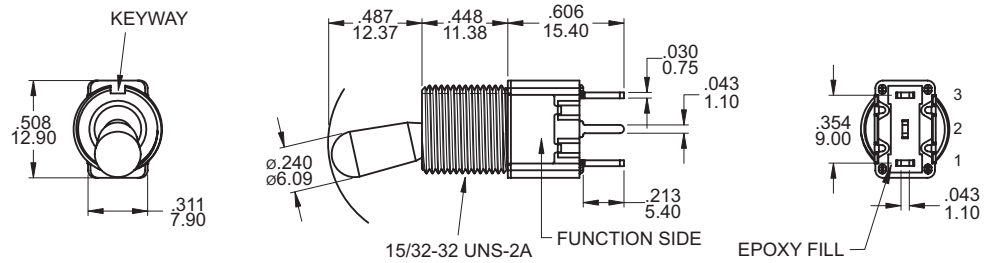
Part No. Shown : S1FS1T6B6M2QES

DPDT



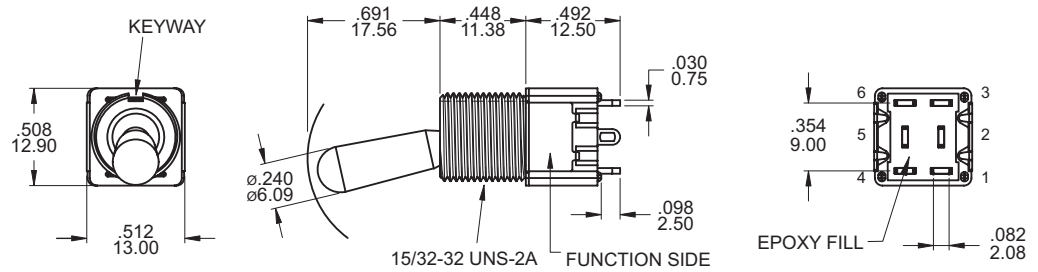
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SPDT



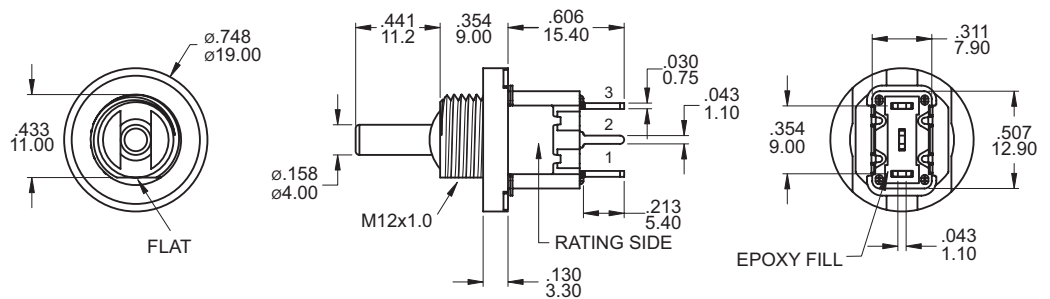
Part No. Shown : S1FS1T7B13M2QES

DPDT



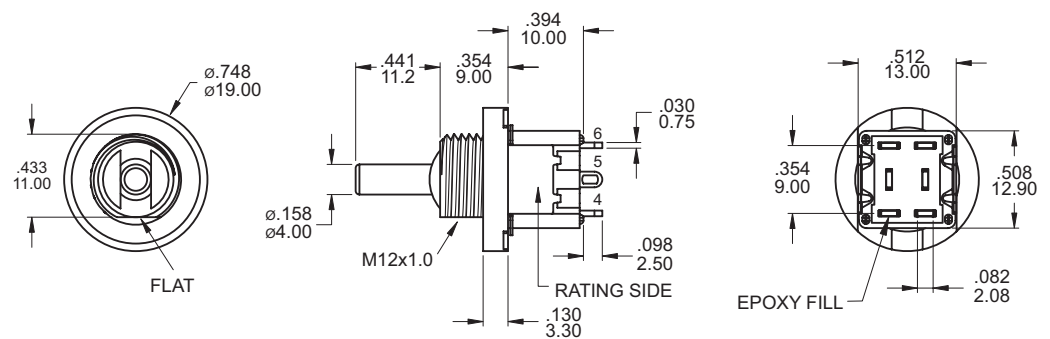
Part No. Shown : S1FD1T8B13M1QES

SPDT



Part No. Shown : S1FS1T12BA1M2QES

DPDT



Part No. Shown : S1FD1T12BA1M1QES

CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Q = Silver	6 Amps with resistant load @ 125VAC or 28VDC 3 Amps with resistant load @ 250VAC
S		S = Silver,pure - tin	
C	Gold over Silver	C = Gold over silver	
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 5sec.
(PCB is 1.6mm in thickness)

SOLDERING : Vapor phase