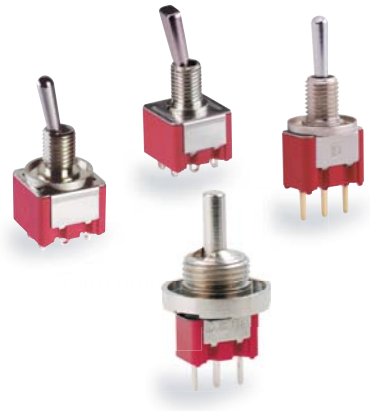

SPECIFICATIONS

CONTACT RATING: AC 125V 6A, AC 250V 3A ,DC 30V 3A
MECHANICAL LIFE: 100,000 make-and-break cycles
DC 10V & 0.1mA.
CONTACT RESISTANCE: 10 mΩ max.
INSULATION RESISTANCE: 500V 500 MΩ min.
DIELECTRIC STRENGTH: 1,000 Vrms min.@sea level.
OPERATING TEMPERATURE: -30°C to 85°C.
WATER-RESISTANCE: 100 make-and-break cycles min at 10 cm deepth for T12 actuator.

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: Brass,with silver or gold plated.

RoHS compliant

Pb lead-free

HOW TO ORDER

MODEL NO. | ACTUATOR | BUSHING | TERMINATIONS | TERMINAL PLATING | SEAL | RoHS SOLDERING

Model NO.
1FS1 SP On-None-On
1FS2 SP On-None-Mom.
1FS3 SP On- Off -On
1FS4 SP Mom.-Off-Mom.
1FS5 SP On- Off -Mom.
1FD1 DP On-None-On
1FD2 DP On-None-Mom.
1FD3 DP On- Off -On
1FD4 DP Mom.-Off-Mom.
1FD5 DP On- Off -Mom.

Actuator
T1 10.5 high
T2 5.4 high
T3 14.2 high
T4 16.4 high
T5 21.4 high
T6 11.5 high
T61 21.5 high
T12 11.2 high

Bushing
B6 8.00 high
BA1 9.00 high
B9 7.52 high

Terminations
M1 Solder Lug
M2 PC thru-hole

Terminal plating
Q Silver
R Gold
C Gold over silver

Seal
E EPOXY (std)
N NO EPOXY

RoHS soldering
S RoHS & Lead Free

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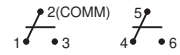
1F Series

Miniature Toggle Switches

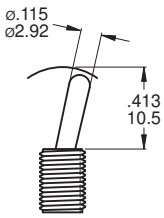
SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
		POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
SP	1FS1	ON	NONE	ON	2-3	N/A	2-1
	1FS2	ON	NONE	MOM			
	1FS3	ON	OFF	ON		OPEN	
	1FS4	MOM	OFF	MOM			
	1FS5	ON	OFF	MOM			
DP	1FD1	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4 
	1FD2	ON	NONE	MOM			
	1FD3	ON	OFF	ON		OPEN	
	1FD4	MOM	OFF	MOM			
	1FD5	ON	OFF	MOM			

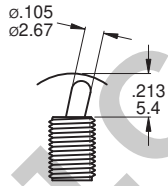
MOM=MOMENTARY

ACTUATOR OPTIONS

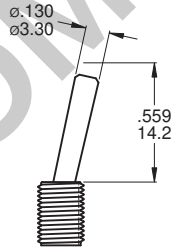
T1 STD



T2



T3



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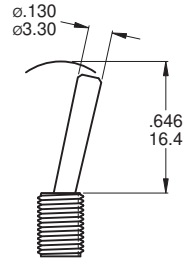
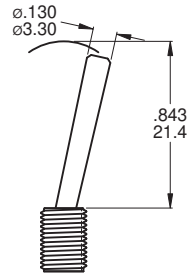
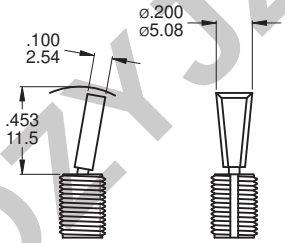


T5

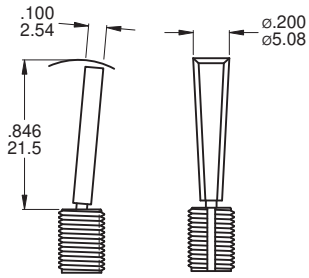


T6 FLATTED WITH ANTIROTATION

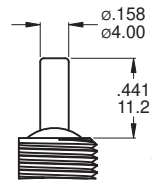


T6,T6-1 use with B6 bushing only

T61



T12

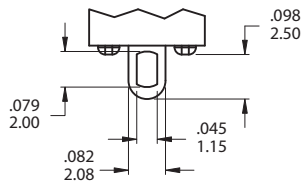


T12 use with BA1 bushing only

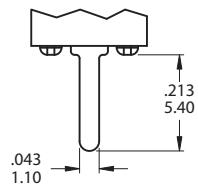
*T12 actuator mechanical life 200,000 cycles

TERMINATION OPTIONS

M1 Solder lug



M2 PC Thru - hole



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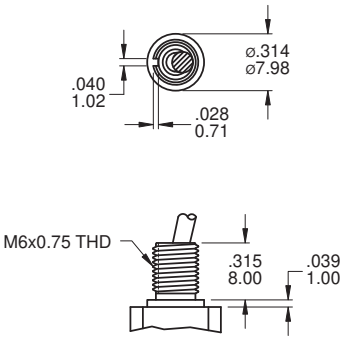
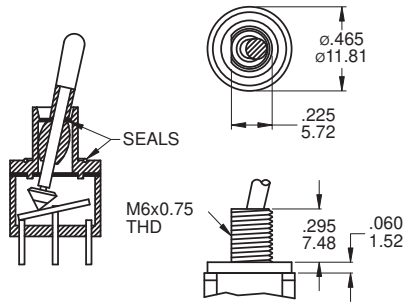
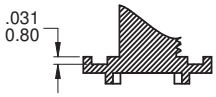
BUSHING OPTIONS

B6 HIGH TORQUE

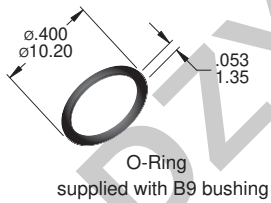


B9 SPLASH PROOF

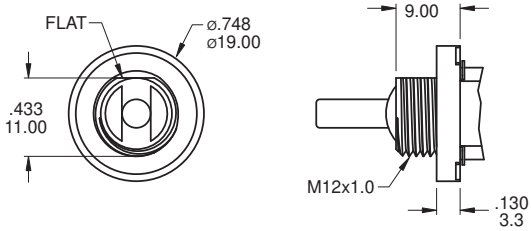




CP-1TEB



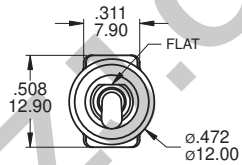
BA1 SPLASH PROOF

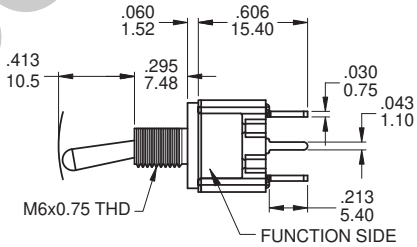


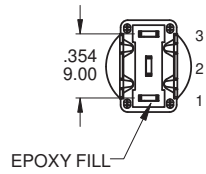
Use with T12 actuators only
BA1 Bear Strength from top of actuator
up to 10kg aside up to 15kg

POLE OPTIONS

SPDT

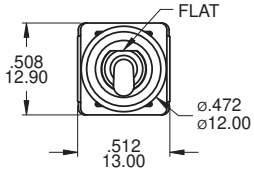


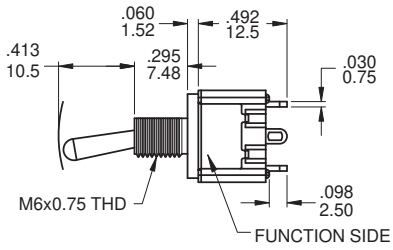


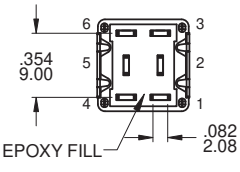


Part No. Shown : 1FS1T1B9M2RES

DPDT







Part No. Shown : 1FD1T1B9M1QES

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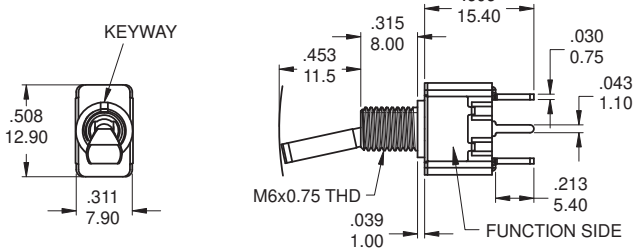
1F Series
Miniature Toggle Switches

SPDT



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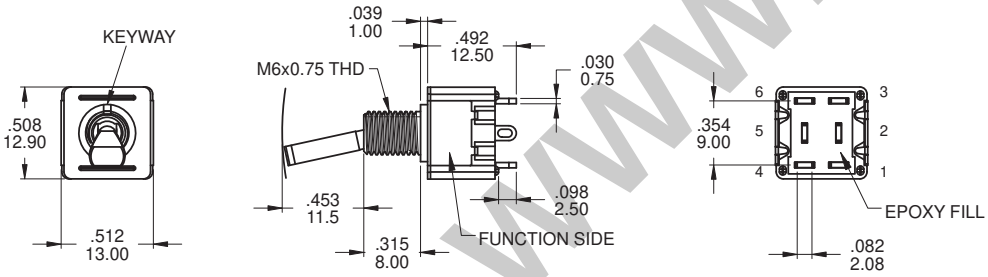
DPDT



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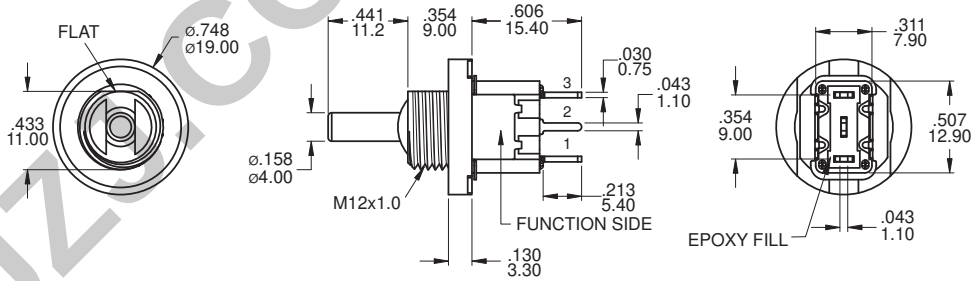
SPDT



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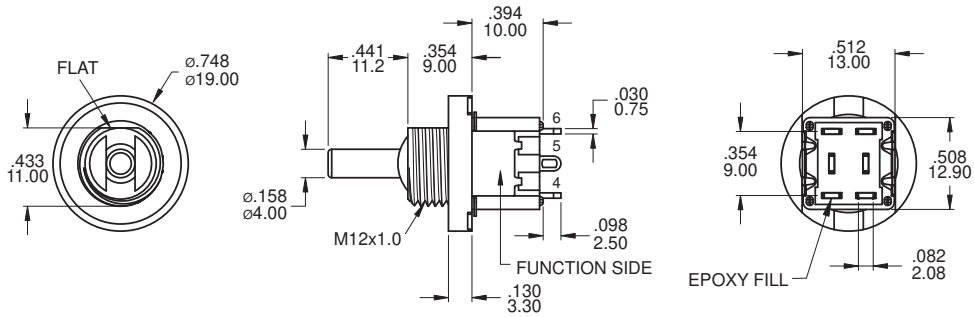
DPDT



Part No. Shown : 1FD1T12BA1M1QES

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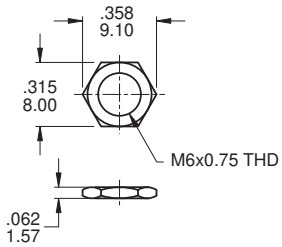
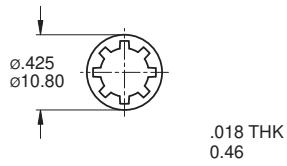
HARDWARE

M6x0.75 NUT



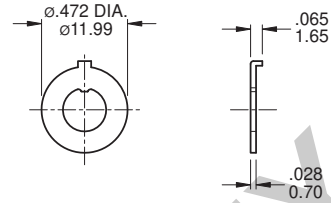
MNU-1M04

LOCKWASHER



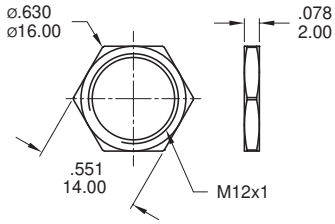
MNU-1M03

LOCKING RING



MNU-1M05

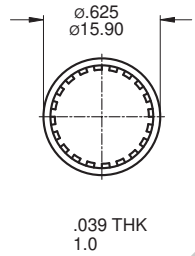
M12x1 NUT



MNU-1M42

Supplied standard with BA1 bushing

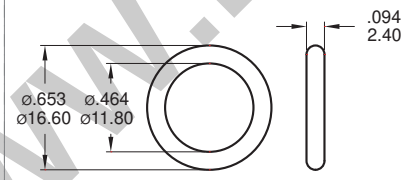
LOCKWASHER



MNU-1M09

Supplied standard with BA1 bushing

O-RING



FCP-1F04

Supplied standard with BA1 bushing

CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Q = Silver	6 Amps with resistant load @ 125VAC
C	Gold over Silver	C = Gold over silver	3 Amps with resistant load @ 250VAC or 30VDC
R	Gold	R = Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or 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: 270 ± 5°C
Duration of Solder Immersion: Max 5 sec. (PCB is 1.6mm in thickness)

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