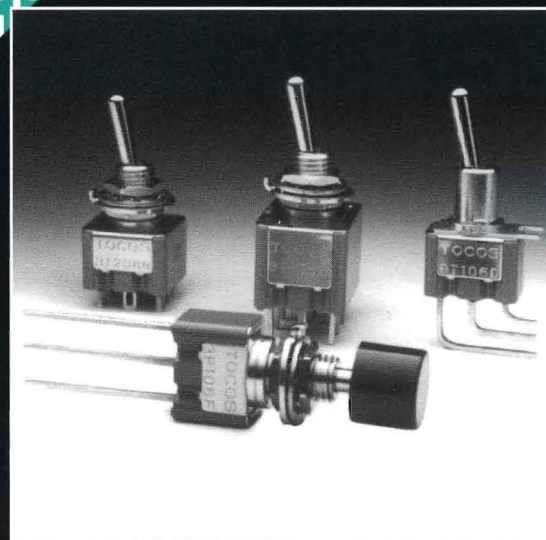


TOCOS



Miniature Toggle and Push Button Switches Selection Guide

Series 3T and 3P

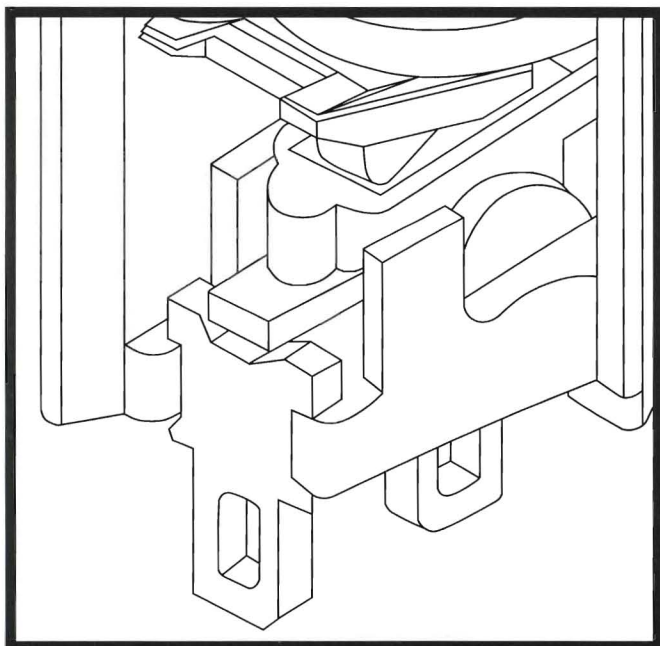
General

Specifications

Contact Rating:	06; 6A @ 125 VAC, 3A @ 250VAC
(Resistive Load)	03; 3A @ 125VAC, 3A @ 250VAC
	01; 1A @ 125VAC, 50mA @ 28VDC
Contact Resistance:	06; 10m Ω Max.
(Initial)	03; 10m Ω Max.
	01; 20m Ω Max.
Insulation Resistance:	1,000 M Ω Min., @ 500VDC
Dielectric Strength:	Terminal-Terminal, 1,000VAC
(Sea Level)	Terminal-Housing (GND), 1,500VAC
Electrical Life:	25,000 cycles (make-and-break)
(Resistive Load)	
Mechanical Life:	100,000 cycles
Operating Temperature:	-20°C to +80°C
Vibration:	10 to 55Hz, 1.5mm
	3 directions, 2 Hrs. EA
Shock:	50G, 11msec, 3 directions
High Temperature	
Exposure:	70°C $\pm$ 2°C, 16 Hrs.
Low Temperature	
Exposure:	-25°C $\pm$ 3°C, 2 Hrs.
Soldering Heat:	350°C $\pm$ 10°C, 3 sec.

Construction

Two-Points of Contact



Materials and Finishes

Case:	Diallyl Phthalate (DAP), 94-Vo
Toggle Handle:	Brass, chrome plated
Bushing:	Brass, nickel plated
Housing:	Stainless steel
End Contact:	See Table
End Terminal:	See Table
Center Contact	
& Terminal:	Brass, Silver plated
Hardware:	
Nut —	Brass, nickel plated
Locking Ring —	Steel, zinc plated
Lockwasher —	Steel zinc plated

Contact Rating vs Contact Materials

Contact Rating	Materials		Finishes
	End Contact	End Terminal	
06	Coin-Silver	Brass	Silver
03	Copper	Copper	Silver
01	Copper	Copper	Silver

UL Listed CSA Listed

Scope

Series:	3T and 3P
Current Rating:	06; 6A @ 125VAC, 3A @ 250VAC 03; 3A @ 125VAC, 3A @ 250VAC

Series 3T and 3P

Ordering Information

3T	F	1	06	D	G	P/C
Series	Actuator	Pole	Contact Rating	Switch Function	Plating	Terminals
Blank	Standard	1 1P			Blank	Blank Solder Lug
S	Short	2 2P			G	Standard Gold
L	Long	3 3P				P/C Printed Circuit
F	Flatted	4 4P				W/W Wire-Wrap
FS	Flatted & Short					R/A Right Angle
FL	Flatted & Long					V/M Vertical Mount
K	Locking					B/M Support Mount
T	Plastic					
J	Large Toggle					
E	Lever Handle					
R	Rocker					
W	W/Splashproof					
		06 6A AC 125V 3A AC 250V				
		03 3A AC 125V 3A AC 250V				
		01 1A AC 125V 50mA DC28V				
		00 50mA DC28V (For Low Current)				
				1,3P 2,4P		
				D N On — On		
				E P On Off On		
				F R On — (On)		
				G S (On) Off (On)		
				H T On Off (On)		
				PA On On On		
				SA (On) On (On)		
				TA On On (On)		

(On): Indicates Momentary

Model				Switch Functions		
SPDT	DPDT *SP3T	3PDT	4PDT *DP3T			
3T106D	3T206N	3T306D	3T406N	ON	—	ON
3T106E	3T206P	3T306E	3T406P	ON	OFF	ON
3T106F	3T206R	3T306F	3T406R	ON	—	(ON)
3T106G	3T206S	3T306G	3T406S	(ON)	OFF	(ON)
3T106H	3T206T	3T306H	3T406T	ON	OFF	(ON)
	*3T206PA		*3T406PA	ON	ON	ON
			*3T406SA	(ON)	ON	(ON)
			*3T406TA	ON	ON	(ON)

Consult Tocos for details.

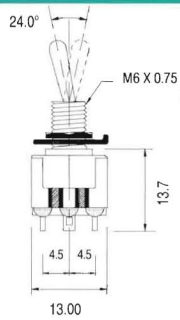
3P	J	1	06	D	G	P/C
Series	Actuator	Pole	Contact Rating	Switch Function	Plating	Terminals
Blank	Standard	1 1P			Blank	Blank Solder Lug
J	Large	2 2P			G	Standard Gold
W	W/Splashproof					P/C Printed Circuit
						W/W Wire-Wrap
						R/A Right Angle
						V/M Vertical Mount
						B/M Support Mount
		06 6A AC 125V 3A AC 250V				
		03 3A AC 125V 3A AC 250V				
		01 1A AC 125V 50mA DC28V				
				1P 2P		
				D N On — On		
				F R On — (On)		

(On): Indicates Momentary

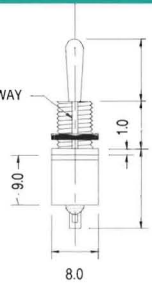
Model		Switch Functions	
SPDT	DPDT		
3P106D	3P206N	ON	ON Alternate
3P106F	3P206R	ON	(ON) Momentary

Series 3T Toggle Switches

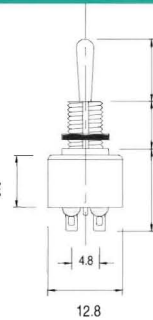
3T Solder Lug



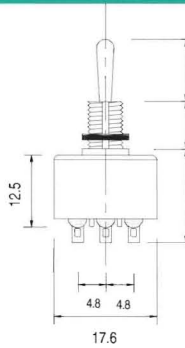
SPDT



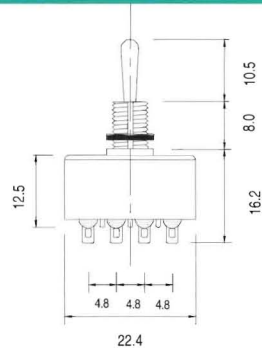
2PDT



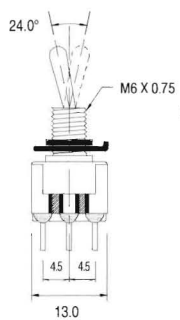
3PDT



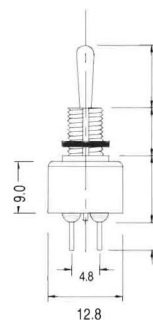
4PDT



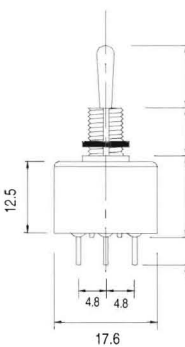
3T Printed Circuit (P/C) SPDT



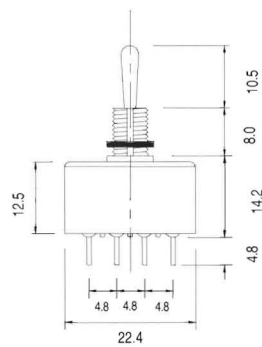
2PDT



3PDT

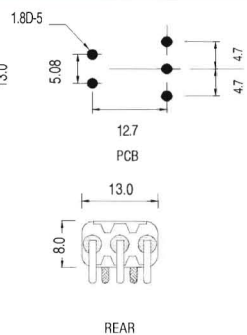
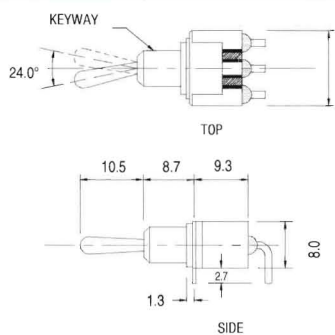


4PDT

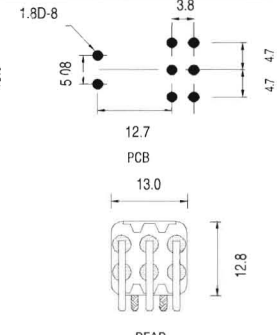
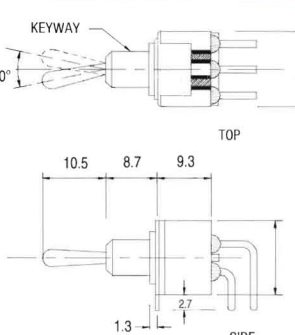


3T Right Angle (R/A)

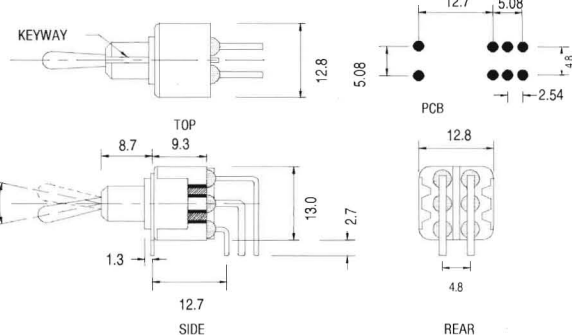
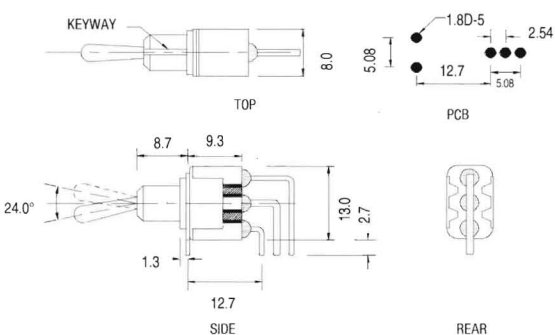
SPDT



2PDT



3T Vertical Mount (V/M) SPDT



Series 3P Pushbutton Switches

3P Solder Lug

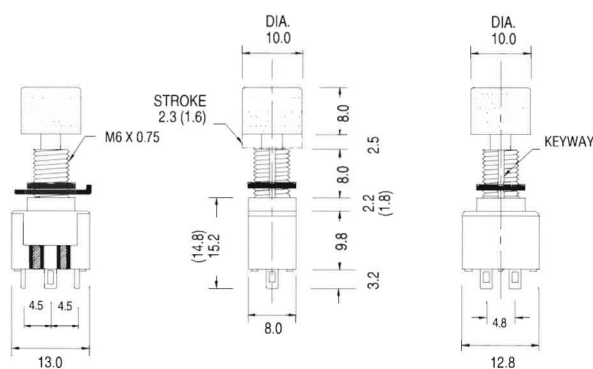
SPDT

DPDT

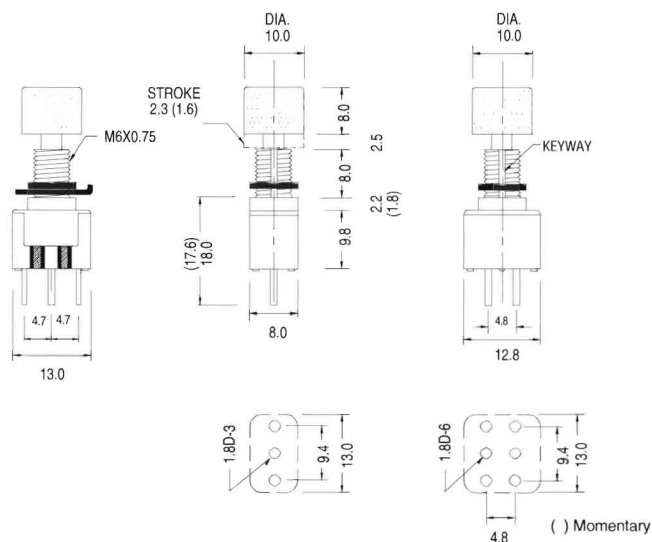
3P P/C Mount P/C

SPDT

DPDT



() Momentary

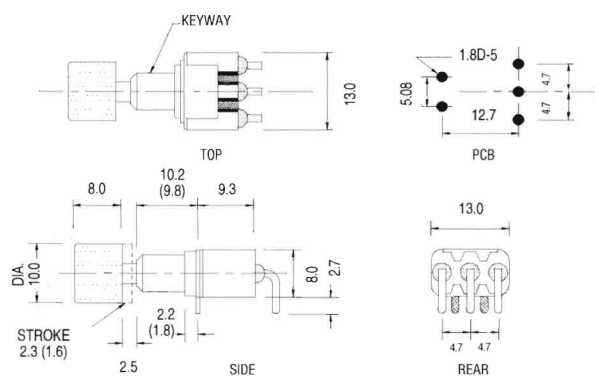


() Momentary

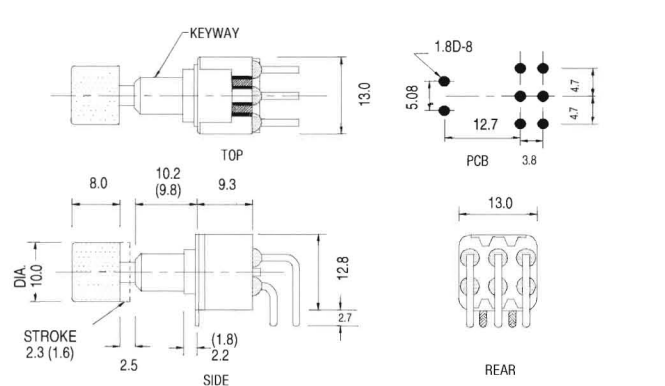
3P Right Angle (R/A)

SPDT

DPDT



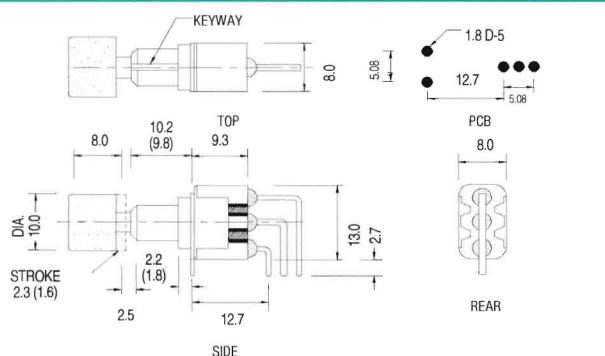
() Momentary



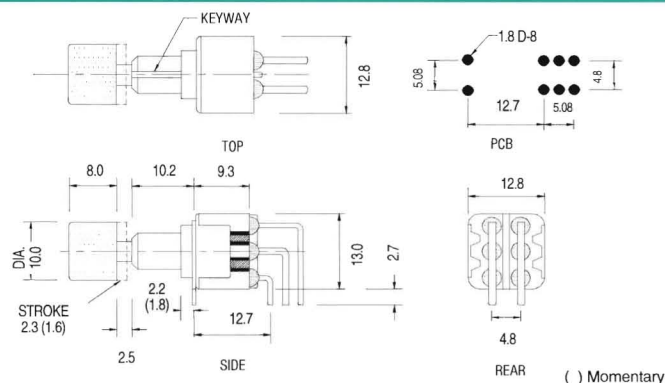
() Momentary

3P Vertical Mount (V/M) SPDT

DPDT



() Momentary



() Momentary

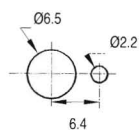
Actuators for Series 3T

Example: 3TS106D, for short (S) toggle.

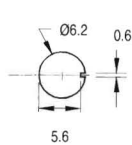
Short (S)	Standard	Long (L)	Large Toggle (J)
Flatted Short (FS)	Flatted (F)		Flatted Long (FL)
Locking (K)	Plastic (T)*	W/Splashproof (W)	*Plastic tip (T) colors: Red, Black, Blue, Green, Yellow, Gray, White.

Panel Layout

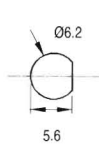
Standard
W/Locking Ring



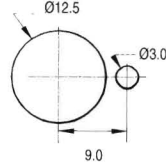
Standard
W/O Locking Ring



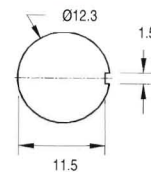
Standard
W/Splashproof



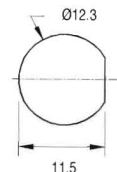
Large
W/Locking Ring



Large
W/O Locking Ring



Large Toggle
W/Splashproof



Toggle Caps for Series 3T

Plastic * (R)	Plastic * (S)	Metal (AL)	Rubber (M6)	Rubber (M12)

Actuators for Series 3P

Standard (3P) *	W/Splashproof (3PW) *	Large (3PJ)

Hardware

Mounting Nut (HEX) 	Lockwasher
Locking Ring 	Mounting Nut (ROUND)

Designation of Actuator Caps:

- For Toggle 3T Series
Plastic (R) & (S)
3T106D with Red Cap (R)
1a) Metal (AL): Ni Plated, Black, Red, Blue
- For Push-Button 3P Series
3P106D with Red Button

***Colors:** For Plastic Toggle and Push-Button Caps.
Red, Black, Green, Blue, Yellow, Gray, White
Black is the standard.

SP Switches

Specifications:

Contact Rating (Resistive Load):
3A @ 125 VAC

Contact Resistance (Initial):
Max. 20 milli-ohm

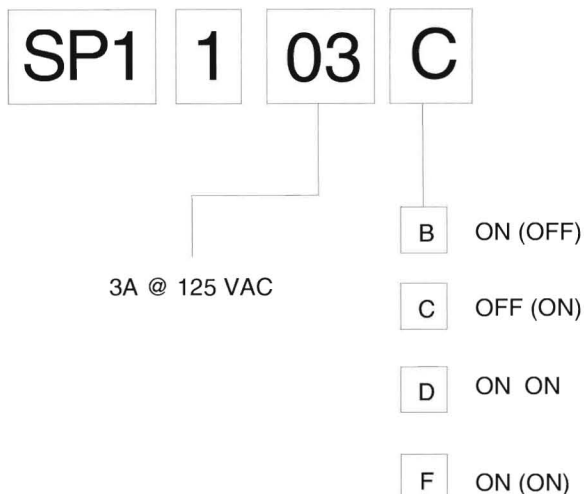
Insulation Resistance:
Min. 100meg-ohm @ 500 VDC

Dielectric Strength:
1000 VAC, 1 Min.

Electrical Life (Resistive Load):
Min. 10,000 cycles

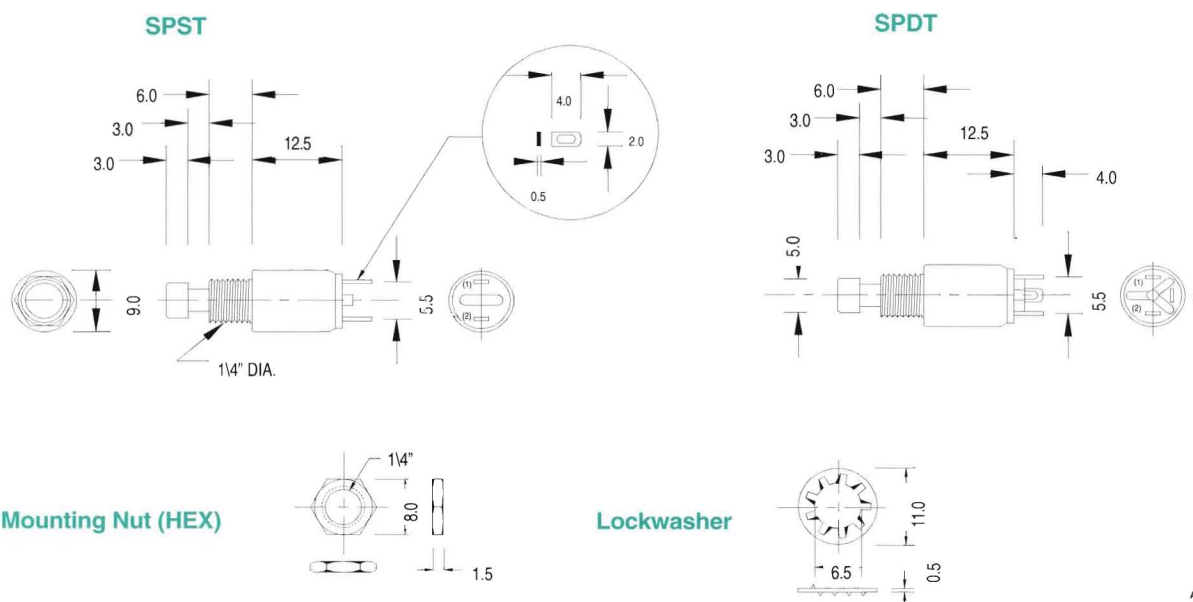
Mechanical Life:
Min. 30,000 cycles

Operating Temperature:
-20C to +70C



CIRCUIT	PART NUMBER	CONTACT RATING	SWITCH FUNCTION
SPST	SP1103B	3A 125 VAC	ON 1-2 (OFF) ----
	SP1103C		OFF ---- (ON) 1-2
SPDT	SP1103D		ON 2-3 ON 1-2
	SP1103F		ON 2-3 (ON) 1-2

() Indicates Momentary



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