

TACT  
SWITCHESNAVIGATION  
SWITCHESPUSHBUTTON  
SWITCHESTOGGLE  
SWITCHESROCKER  
SWITCHESSLIDE  
SWITCHESSNAP-ACTION  
SWITCHESDIP  
SWITCHESKEYLOCK  
SWITCHESROTARY  
SWITCHESDETECTOR  
SWITCHESCAP  
OPTIONS

# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE



### FEATURES & BENEFITS

- ▶ Up to 4 poles available
- ▶ Variety of switching functions
- ▶ Miniature
- ▶ Multiple actuator & bushing options

### APPLICATIONS/MARKETS

- ▶ Telecommunications
- ▶ Instrumentation
- ▶ Networking
- ▶ Medical equipment

### SPECIFICATIONS

Contact Rating:	See contact material options
Life Expectancy:	40,000 make-and-break cycles
Contact Resistance:	10 mΩ max. typical initial @ 2-4 VDC 100 mA for both silver and gold plated contacts
Insulation Resistance:	1,000 MΩ min.
Dielectric Strength:	1,000 V RMS @ sea level
Operating Temperature:	-30° C to 85° C

### MATERIALS

Case:	Diallyl Phthalate (DAP)
Toggle Handle:	Brass, chrome plated
Switch Support:	Brass or steel, tin plated
Bushing:	Brass, nickel plated
Housing:	Stainless steel
Contacts / Terminals:	Silver or gold plated copper alloy



### HOW TO ORDER

SERIES 100	MODEL NO. □ □ □	ACTUATOR □ □	BUSHING □ □ □	TERMINATION □ □ □ □	CONTACT MATERIAL □	SEAL E	HARDWARE □
	SP1 SP2* SP3 SP4* SP5* DP1 DP2* DP3 DP4* DP5* DP6 DP7* DP8* 3P1 3P2* 3P3 3P4* 3P5* 4P1 4P2* 4P3 4P4* 4P5* 4P6 4P7* 4P8*	T1† T2 T3 T4 T5 T6 T7 T8 T9 K1 K2  † Optional Toggle Cap (T1 Only): T100-1 = White T100-2 = Black	B1 B2 B3 B4 B5 B6 B8 B9 B11 B12 B13 B15 B16 B25** B26**	M1 M2 M3 M5 M6 M61 M7 M71 VS2 VS3 VS5* M64* VS21* VS31*	Q = Silver R = Gold	E = Epoxy Sealed at Base of Terminal	H = Hardware



### Example Ordering Number

100-SP1-T4-B2-M1-R-E

Notes: \* Not available with the K1 and K2 actuator options.

\*\* Available only with the K1 and K2 actuator options.

Specifications subject to change without notice.

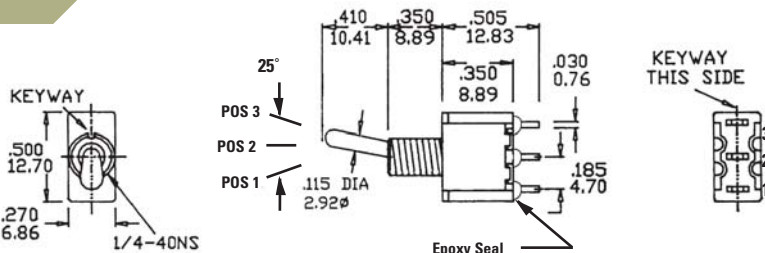


## SPDT



2 Comm.  
1 3

SCHEMATIC



Model No.	POS 1	POS 2	POS 3
SP-1	ON	NONE	ON
SP-2	ON	NONE	(ON)
SP-3	ON	OFF	ON
SP-4	(ON)	OFF	(ON)
SP-5	ON	OFF	(ON)
Term. Comm.	2-3	OPEN	2-1

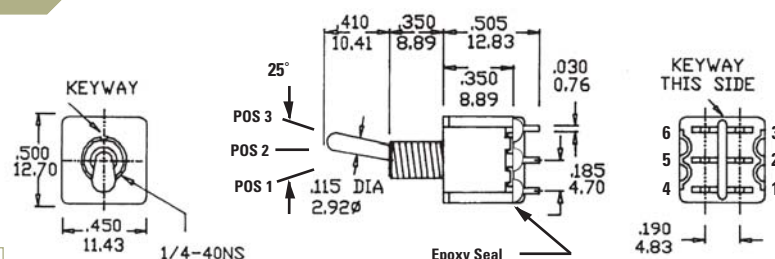
( ) = Momentary

## DPDT



2 Comm. 5 Comm.  
1 3 4 6

SCHEMATIC



Model No.	POS 1	POS 2	POS 3
DP-1	ON	NONE	ON
DP-2	ON	NONE	(ON)
DP-3	ON	OFF	ON
DP-4	(ON)	OFF	(ON)
DP-5	ON	OFF	(ON)
DP-7	ON	ON	(ON)
DP-8	(ON)	ON	(ON)
Term. Comm.	2-3, 5-6	OPEN	2-1, 5-4

DP-6	ON	ON	ON
Term. Comm.	2-3, 5-6	2-3, 5-4	2-1, 5-4

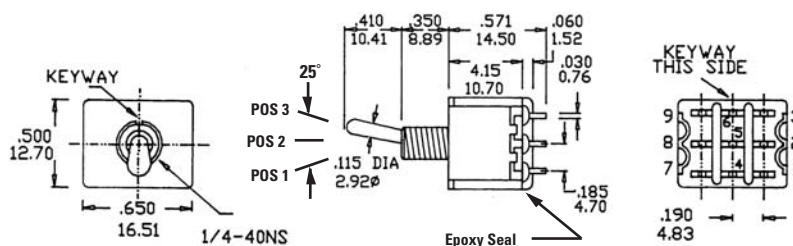
( ) = Momentary

## 3PDT



2 Comm. 5 Comm. 8 Comm.  
1 3 4 6 7 9

SCHEMATIC



Model No.	POS 1	POS 2	POS 3
3P-1	ON	NONE	ON
3P-2	ON	NONE	(ON)
3P-3	ON	OFF	ON
3P-4	(ON)	OFF	(ON)
3P-5	ON	OFF	(ON)
Term. Comm.	2-3, 5-6 8-9	OPEN	2-1, 5-4 8-7

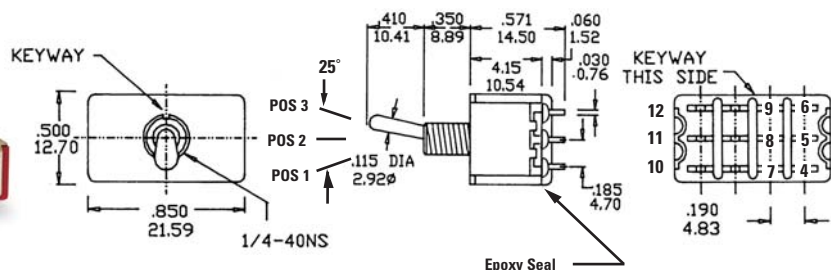
( ) = Momentary

## 4PDT



2 Comm. 5 Comm. 8 Comm. 11 Comm.  
1 3 4 6 7 9 10 12

SCHEMATIC



Model No.	POS 1	POS 2	POS 3
4P-1	ON	NONE	ON
4P-2	ON	NONE	(ON)
4P-3	ON	OFF	ON
4P-4	(ON)	OFF	(ON)
4P-5	ON	OFF	(ON)
4P-7	ON	ON	(ON)
4P-8	(ON)	ON	(ON)
Term. Comm.	2-3, 5-6 8-9 11-12	OPEN	2-1, 5-4 8-7 11-10

4P-6	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

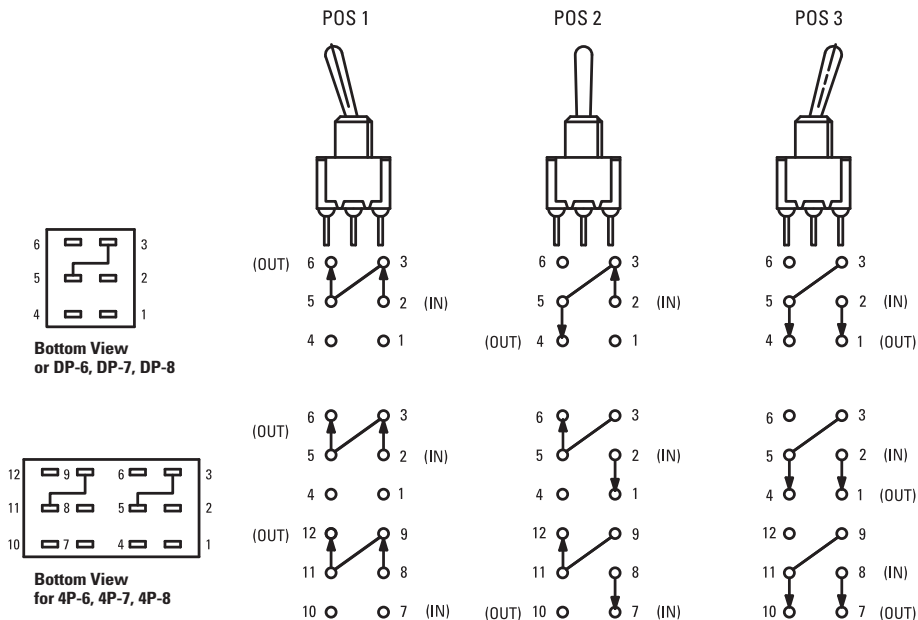
( ) = Momentary



# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

### 3 - WAY WIRING DIAGRAM SCHEMATICS

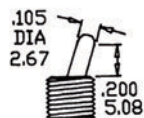


### ACTUATOR OPTIONS

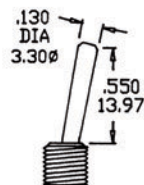
#### T1\* STANDARD



#### T2\*



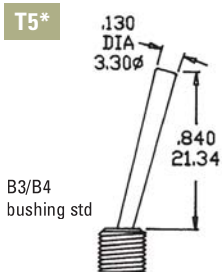
#### T3\*



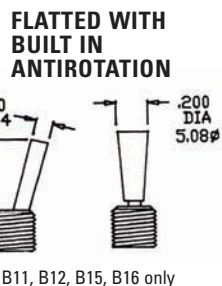
#### T4\*



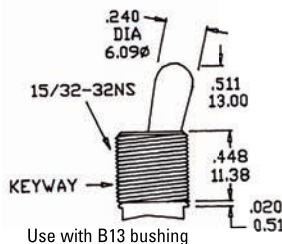
#### T5\*



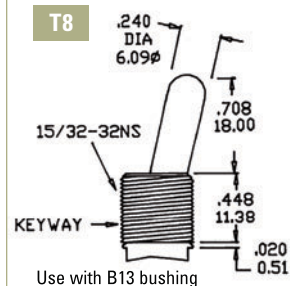
#### T6



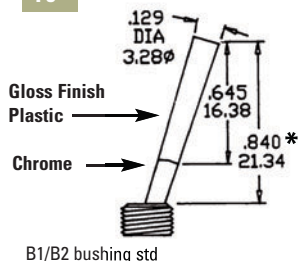
#### T7



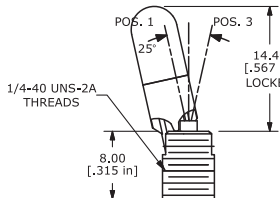
#### T8



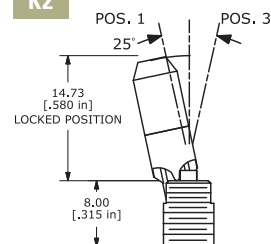
#### T9\* PLASTIC BLACK



#### K1



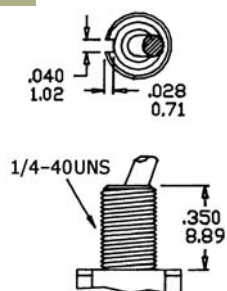
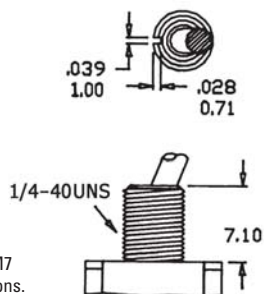
#### K2



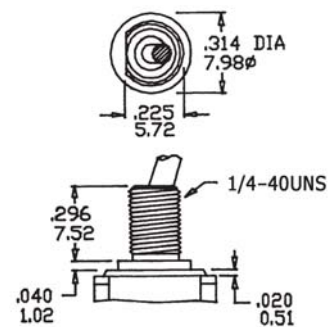
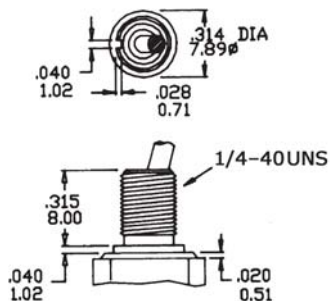
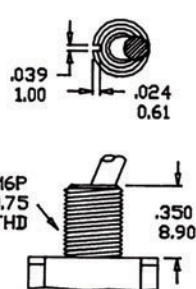
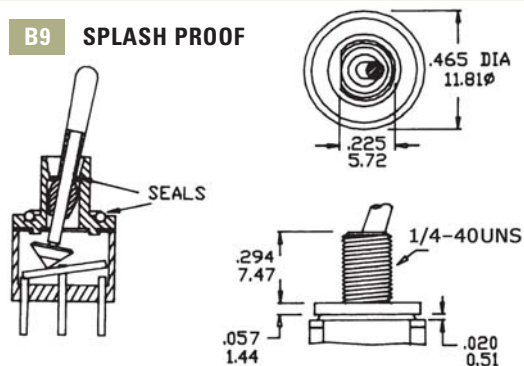
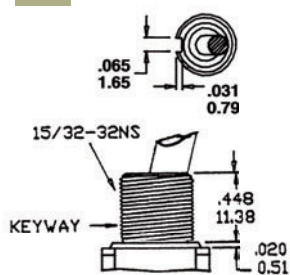
\* Add .070 (1.78) for B3, B4 bushings, subtract .020 (0.51) for B6 bushing.



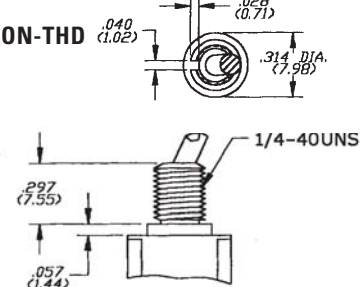
## BUSHING OPTIONS

**B1 THD STD****B2 NON-THD****B3 THD STD****B4 NON-THD**

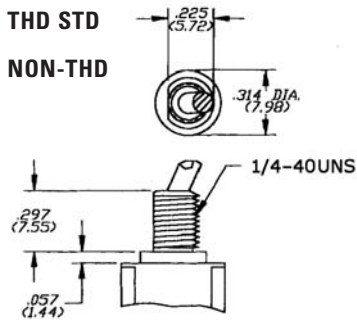
B4 is standard for M6, M7 and VS termination options.

**B5 HIGH TORQUE****B6 HIGH TORQUE****B8 METRIC THD****B9 SPLASH PROOF****B13**

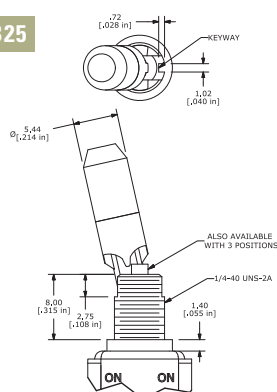
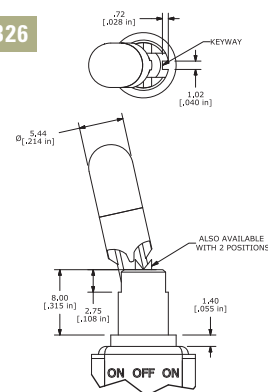
Use with T7 and T8 actuators only

**B11 THD STD****B12 NON-THD**

Use with T6 actuator only

**B15 THD STD****B16 NON-THD**

Use with T6 actuator only

**B25****B26**





TACT  
SWITCHES

NAVIGATION  
SWITCHES

PUSHBUTTON  
SWITCHES

TOGGLE  
SWITCHES

ROCKER  
SWITCHES

SLIDE  
SWITCHES

SNAP-ACTION  
SWITCHES

DIP  
SWITCHES

KEYLOCK  
SWITCHES

ROTARY  
SWITCHES

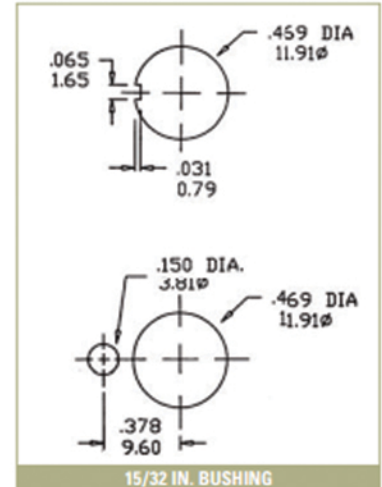
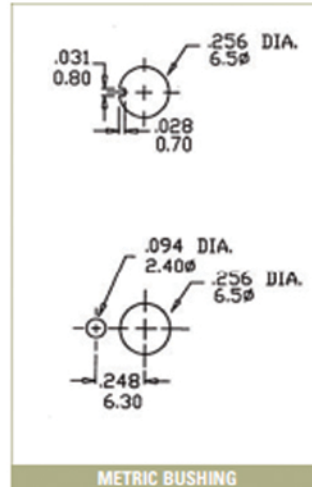
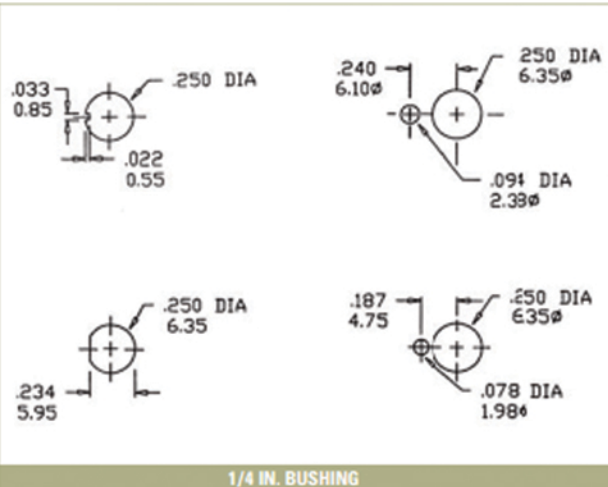
DETECTOR  
SWITCHES

CAP  
OPTIONS

# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

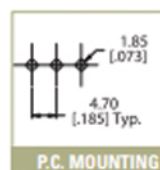
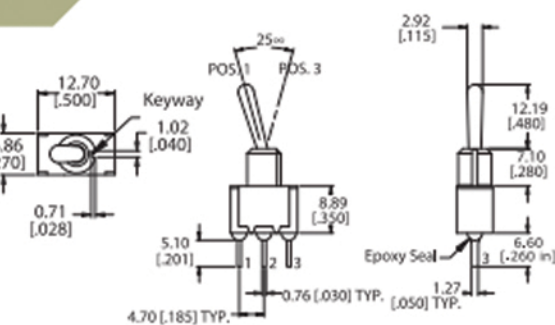
### BUSHING OPTIONS - PANEL MOUNTING



### TERMINATION OPTIONS

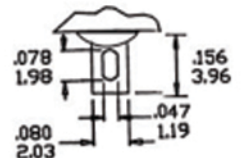
#### M2

##### SPDT



#### M1

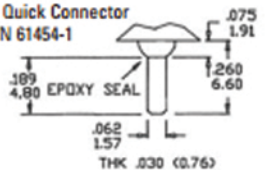
##### SOLDER LUG



#### M3

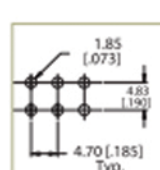
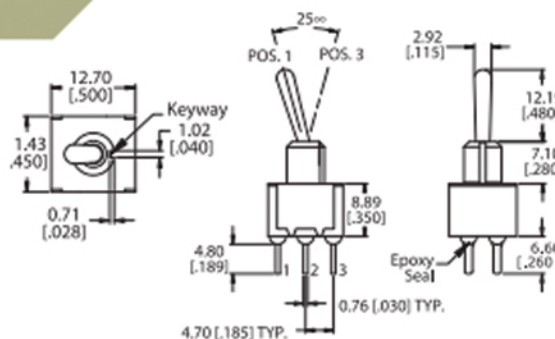
##### QUICK CONNECT

Mating Quick Connector  
Amp P/N 61454-1



#### M2

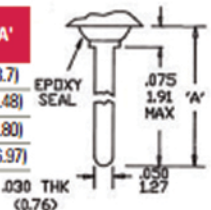
##### DPDT



#### M5

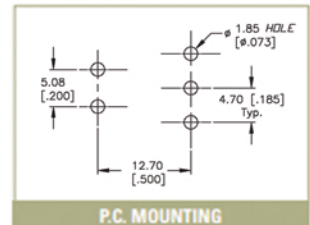
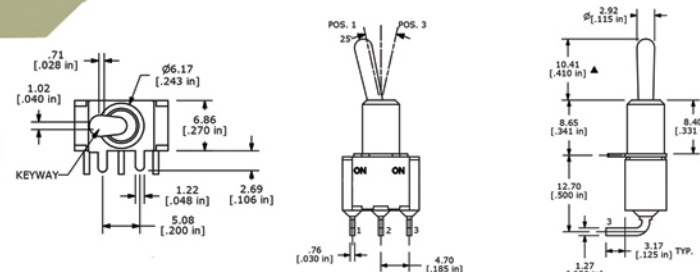
##### WIRE WRAP

Option Code	Dim. 'A'
M51	.750 (18.7)
M52	.964 (24.48)
M53	.425 (10.80)
M54	1.062 (26.97)



#### M6

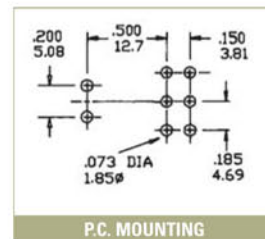
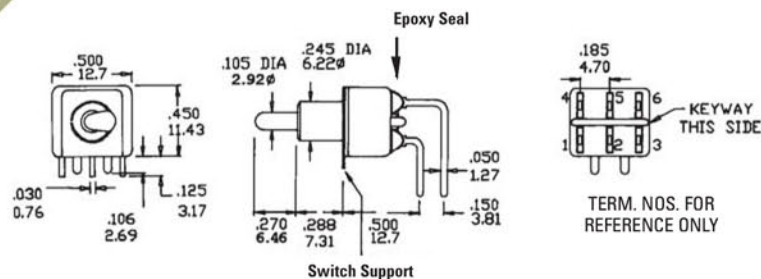
##### SPDT





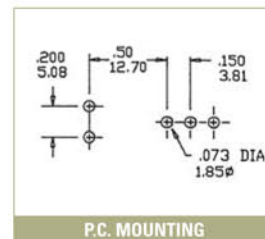
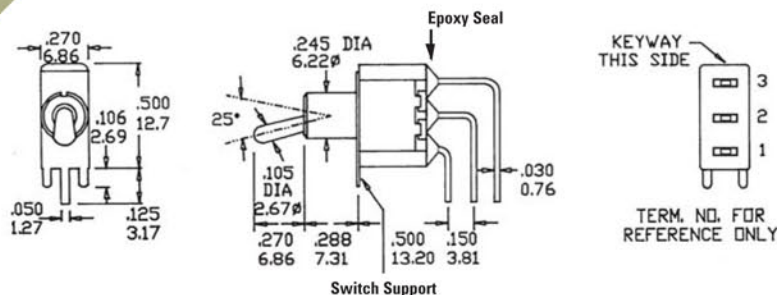
## M6

DPDT



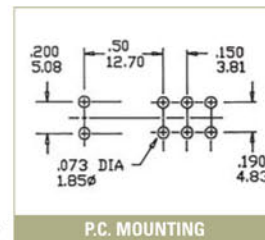
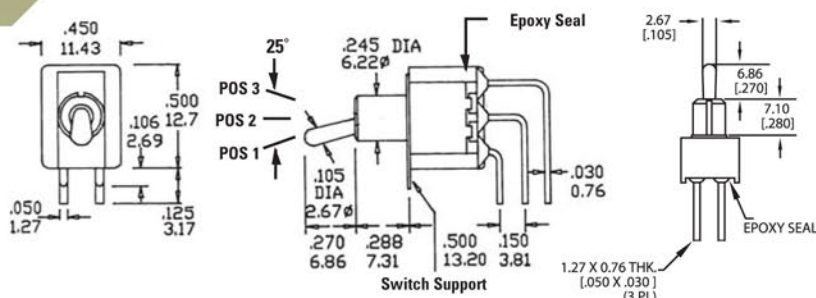
## M7

SPDT



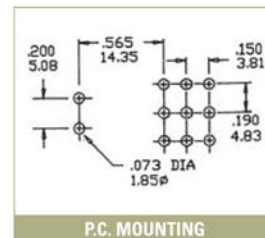
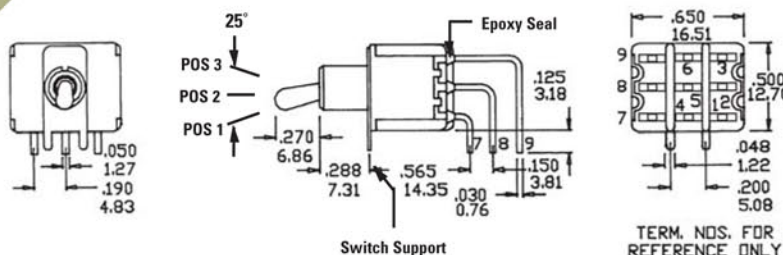
## M7

DPDT



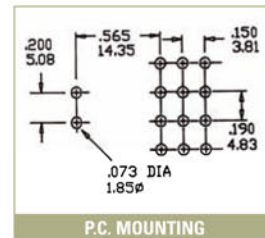
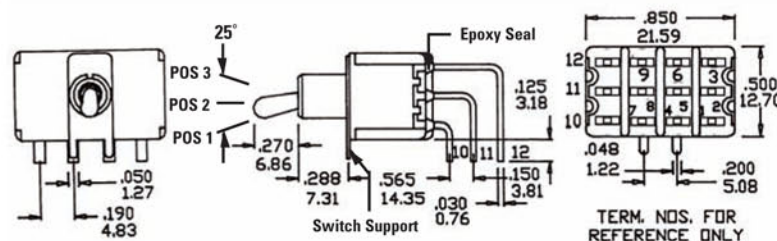
## M7

3PDT



## M7

4PDT





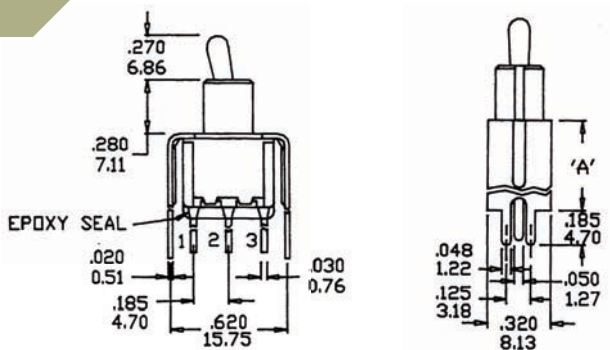
# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

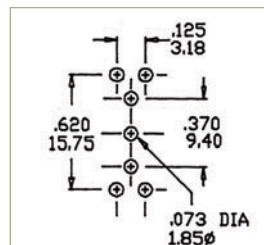
TACT  
SWITCHESNAVIGATION  
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SWITCHESDIP  
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SWITCHESROTARY  
SWITCHESDETECTOR  
SWITCHESCAP  
OPTIONS

### VS2-VS3

SPDT



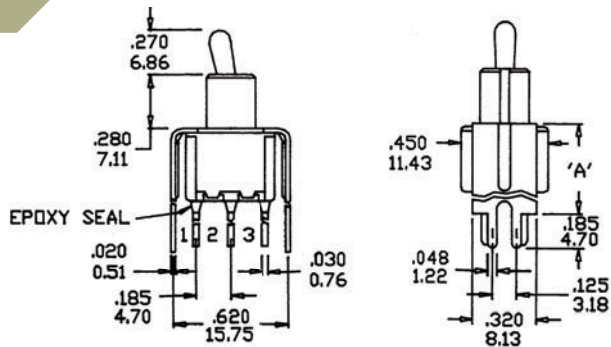
Option Code	Dim. 'A'
VS2	.460 (11.68)
VS3	.630 (16.00)



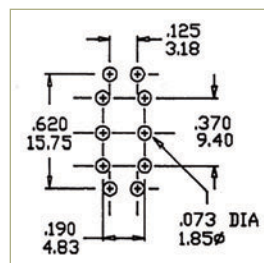
P.C. MOUNTING

### VS2-VS3

DPDT



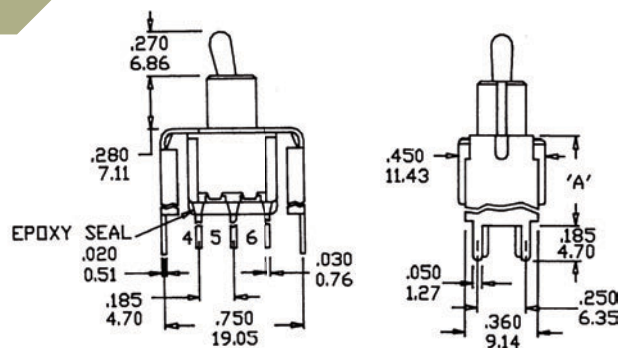
Option Code	Dim. 'A'
VS2	.460 (11.68)
VS3	.630 (16.00)



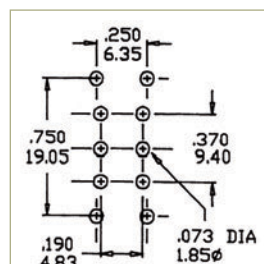
P.C. MOUNTING

### VS5

DPDT



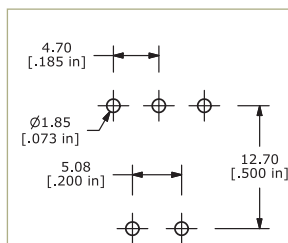
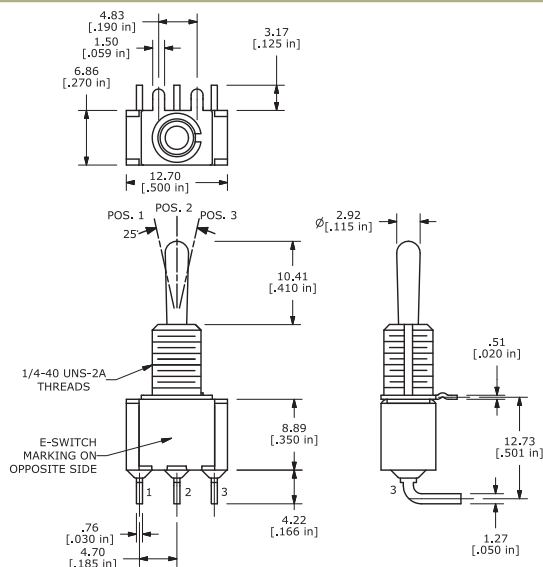
Option Code	Dim. 'A'
VS5	.630 (16.00)



P.C. MOUNTING

### M61

SPDT

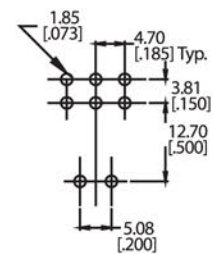
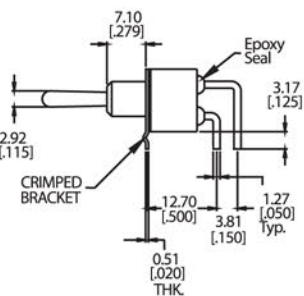
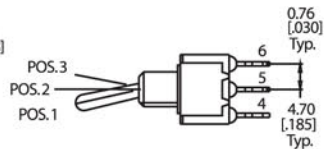
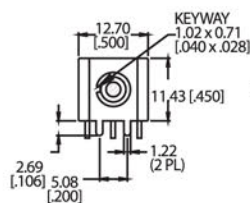


P.C. MOUNTING



**M61**

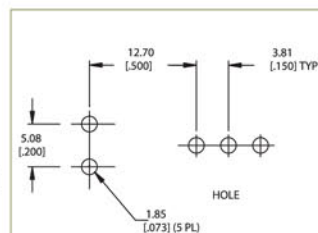
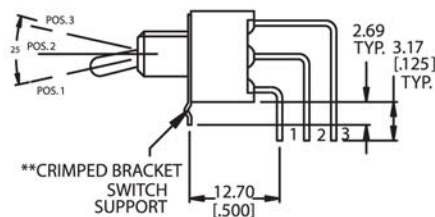
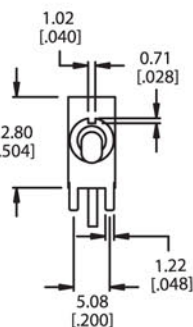
DPDT



P.C. MOUNTING

**M71**

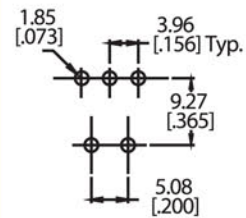
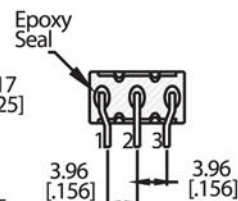
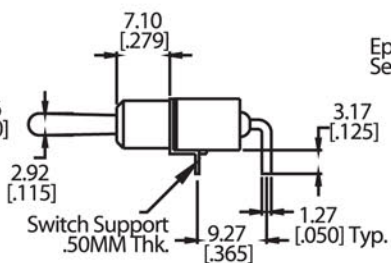
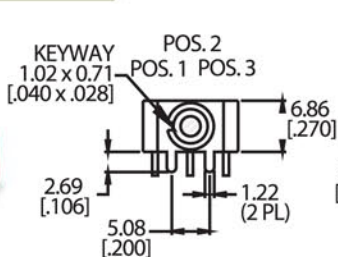
SPDT



P.C. MOUNTING

**M64**

SPDT



P.C. MOUNTING





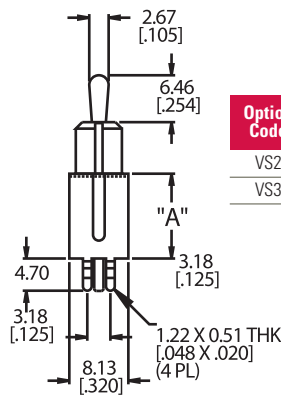
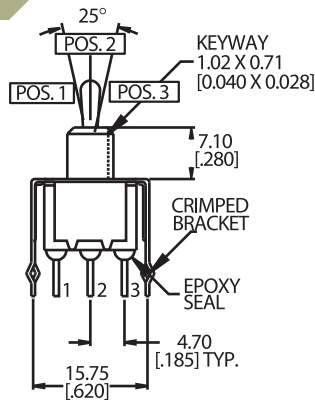
# SERIES 100 SWITCHES

## TOGGLE SWITCHES - MINIATURE

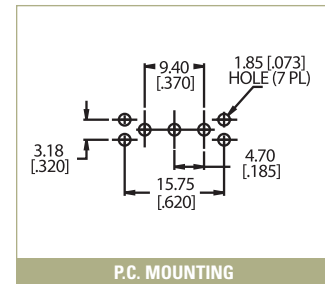
TACT  
SWITCHESNAVIGATION  
SWITCHESPUSHBUTTON  
SWITCHESTOGGLE  
SWITCHESROCKER  
SWITCHESSLIDE  
SWITCHESSNAP-ACTION  
SWITCHESDIP  
SWITCHESKEYLOCK  
SWITCHESROTARY  
SWITCHESDETECTOR  
SWITCHESCAP  
OPTIONS

### VS21-VS31

SPDT



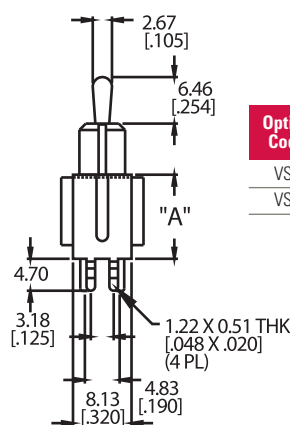
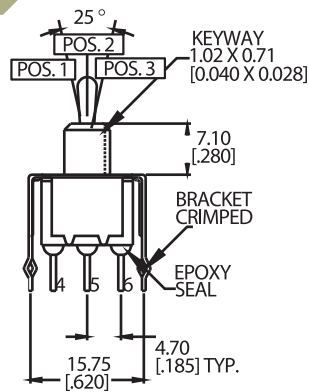
Option Code	Dim. 'A'
VS2	.460 (11.68)
VS3	.630 (16.00)



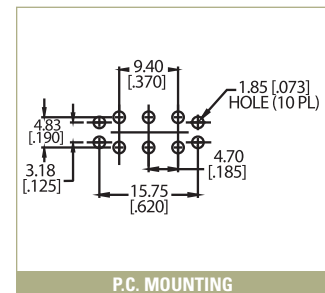
P.C. MOUNTING

### VS21-VS31

DPDT



Option Code	Dim. 'A'
VS2	.460 (11.68)
VS3	.630 (16.00)

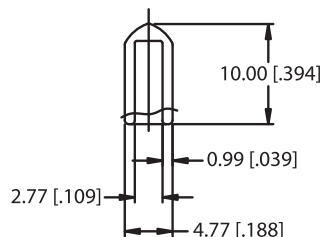


P.C. MOUNTING

### OPTIONAL TOGGLE CAP



Use with T1  
T100-1 WHITE  
T100-2 BLACK



### CONTACT MATERIAL OPTIONS

Q

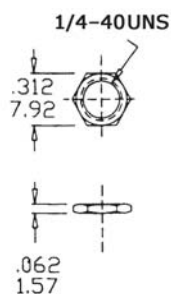
Fixed Terminal:	Silver plated over copper alloy
Moving Contact:	Silver plated over copper alloy
Rating:	5 Amps with resistive load @ 120VAC or 28VDC; 2 Amps with resistive load @ 250VAC

R

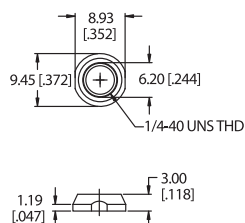
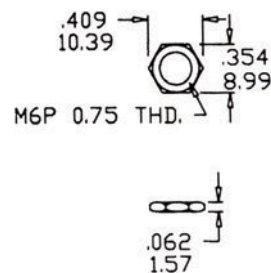
Fixed Terminal:	Copper alloy with gold plate over nickel plate
Moving Contact:	Copper alloy with gold plate over nickel plate
Rating:	0.4 Volt-Amps (VA) max. @ 20V max. (AC or DC)



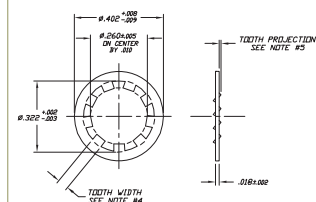
## HARDWARE

**HDW2 1/4 IN. NUTS**

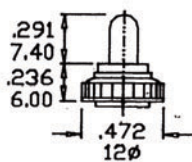
Supplied standard with  
B1, B3, B5, B6 and B9 options

**HDW3 BLIND DRESSNUT****HDW6 METRIC NUT**

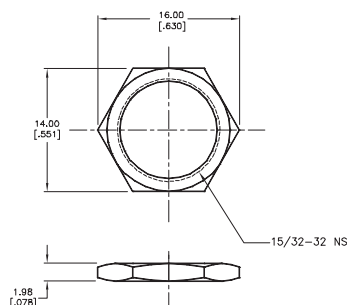
Supplied standard with B8  
metric bushing

**HDW11 LOCK WASHER**

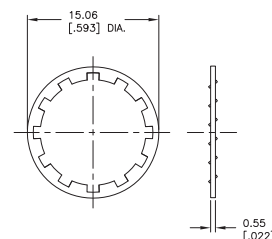
Supplied standard with B1/B3  
bushing

**Optional Rubber Hood  
Sealing E1**

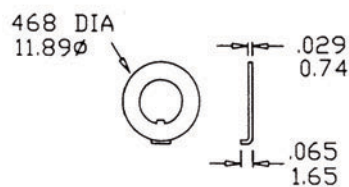
E1= Inch (Std.) for actuator T1, T2 and bushings  
B1, B3, B5, B6 Optional rubber boot sealing

**HDW4 15/32 IN. NUTS**

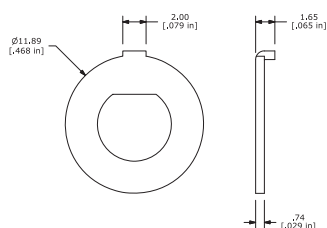
Supplied standard with B13 bushing

**HDW12 LOCK WASHER**

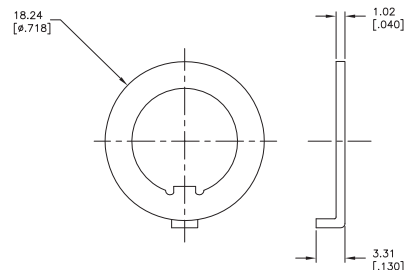
Supplied standard with B13 bushing

**HDW15 LOCKING RING**

Supplied standard

**HDW16 LOCKING RING**

Supplied with B5 bushing

**HDW17 LOCKING RING**

Supplied with B13 bushing

TACT  
SWITCHESNAVIGATION  
SWITCHESPUSHBUTTON  
SWITCHESTOGGLE  
SWITCHESROCKER  
SWITCHESSLIDE  
SWITCHESSNAP-ACTION  
SWITCHESDIP  
SWITCHESKEYLOCK  
SWITCHESROTARY  
SWITCHESDETECTOR  
SWITCHESCAP  
OPTIONS