

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.

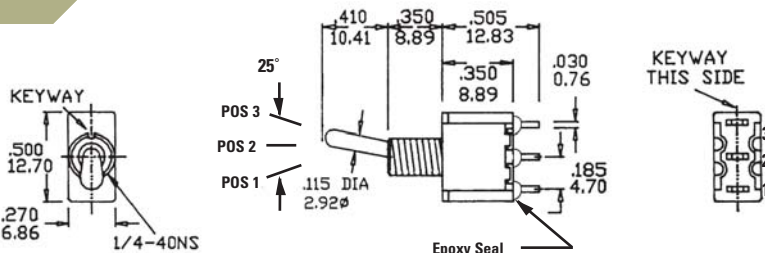


SPDT



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

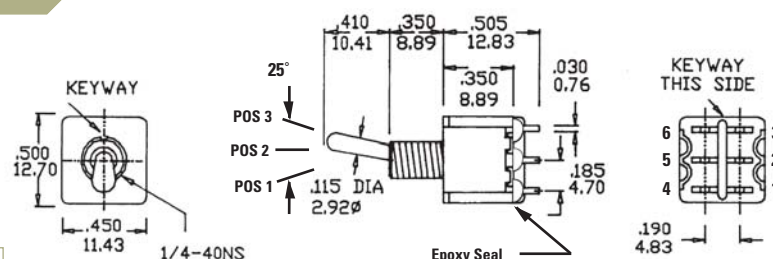
() = Momentary

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

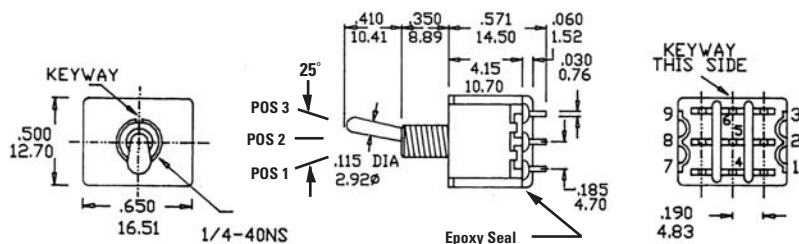
() = Momentary

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

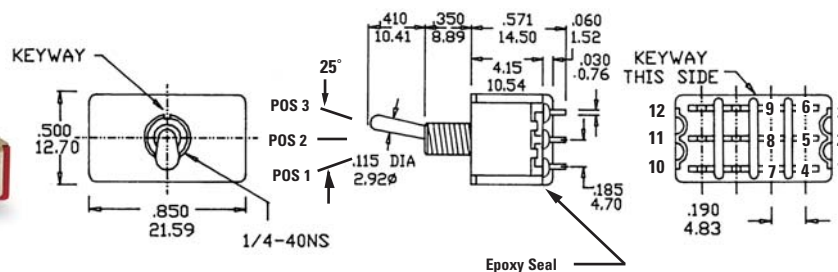
() = Momentary

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

() = Momentary

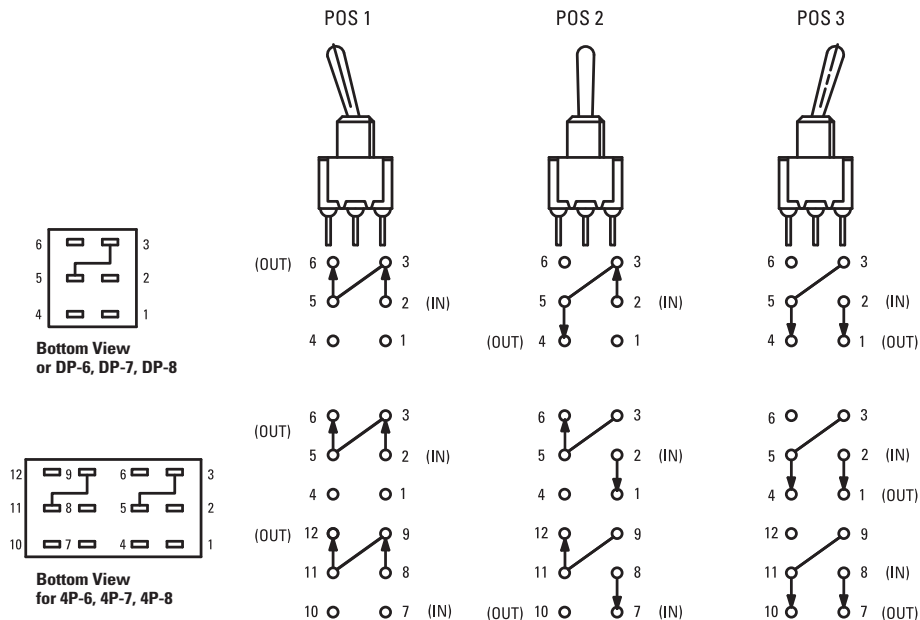
() = Momentary



SERIES 100 SWITCHES

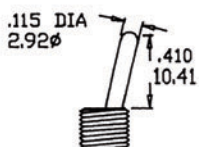
TOGGLE SWITCHES - MINIATURE

3 - WAY WIRING DIAGRAM SCHEMATICS

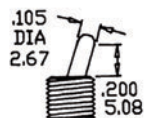


ACTUATOR OPTIONS

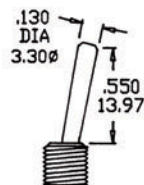
T1* STANDARD



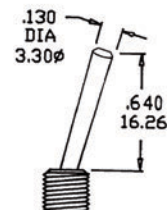
T2*



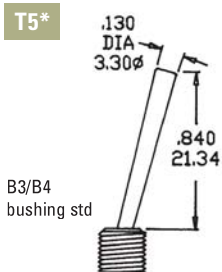
T3*



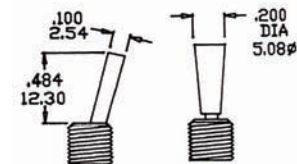
T4*



T5*

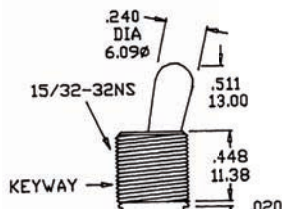


T6 FLATTED WITH BUILT IN ANTIROTATION



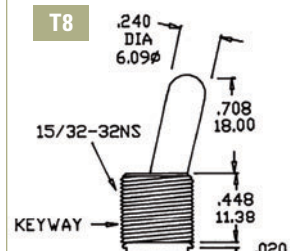
Use with B11, B12, B15, B16 only

T7



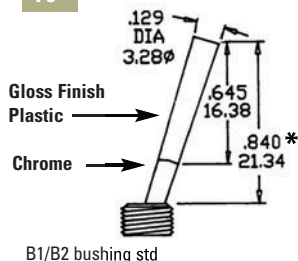
Use with B13 bushing

T8

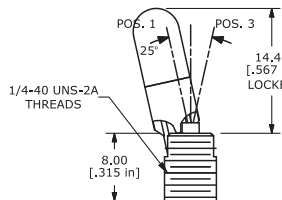


Use with B13 bushing

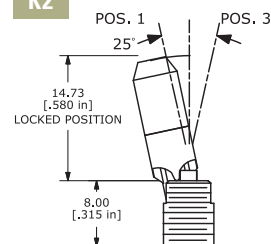
T9* PLASTIC BLACK



K1



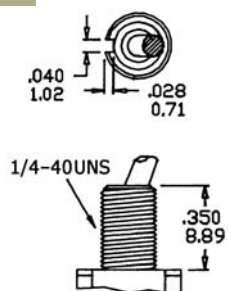
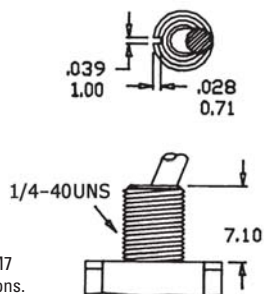
K2



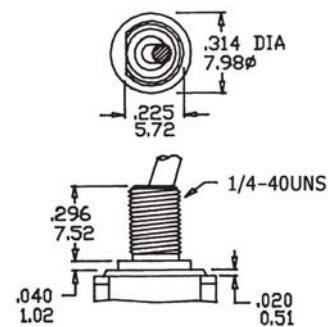
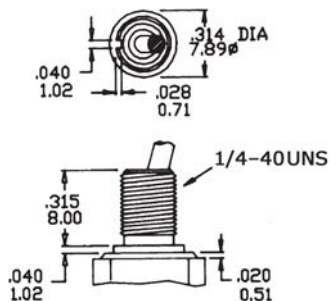
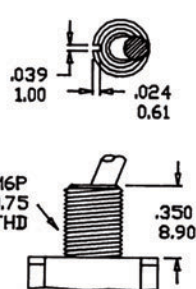
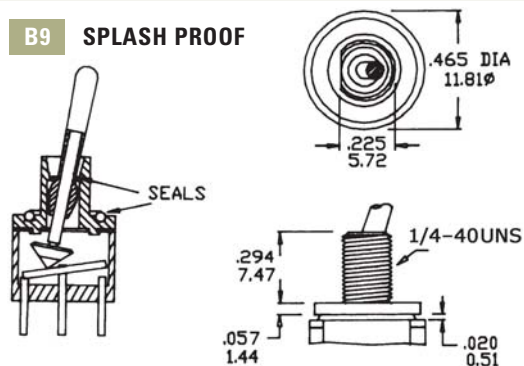
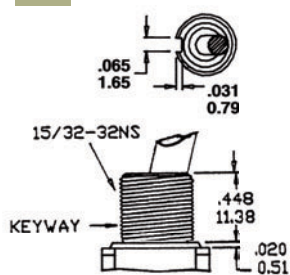
* Add .070 (1.78) for B3, B4 bushings, subtract .020 (0.51) for B6 bushing.



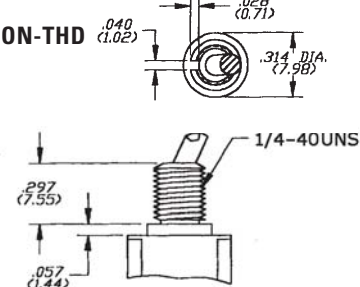
BUSHING OPTIONS

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

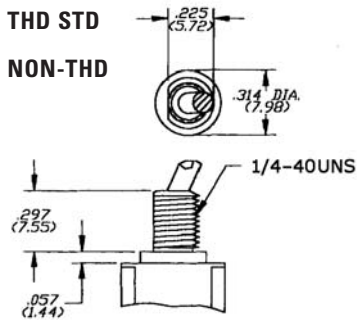
B4 is standard for M6, M7 and VS termination options.

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

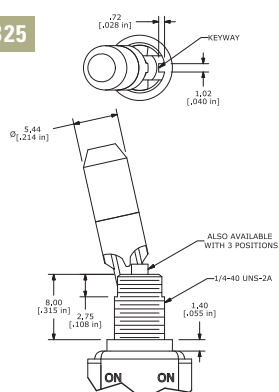
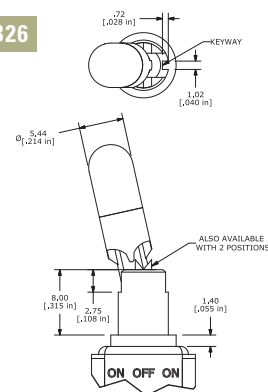
Use with T7 and T8 actuators only

B11 THD STD**B12 NON-THD**

Use with T6 actuator only

B15 THD STD**B16 NON-THD**

Use with T6 actuator only

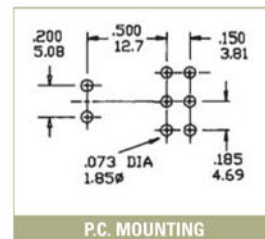
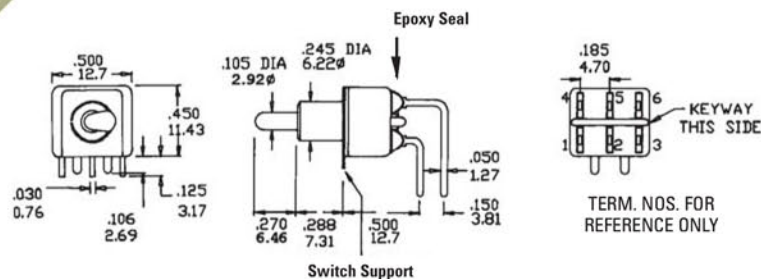
B25**B26**

CAP
OPTIONS

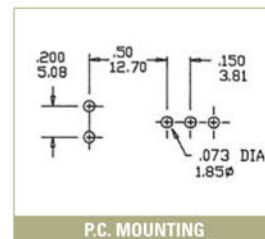
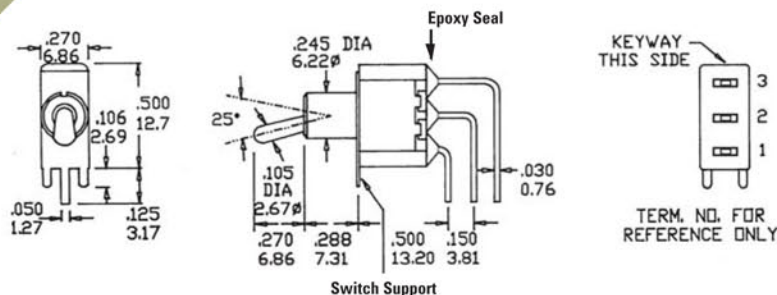
Fax: 763-531-8235

**M6**

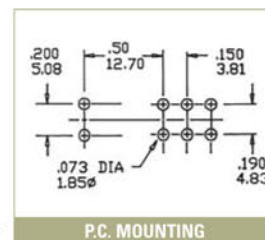
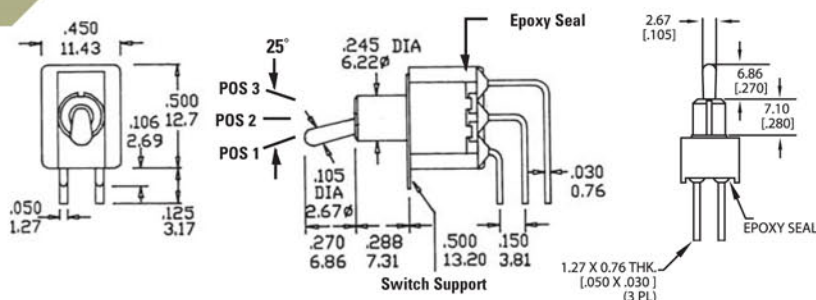
DPDT

**M7**

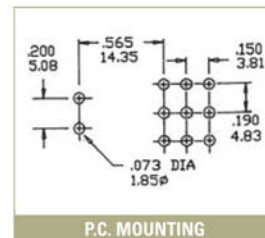
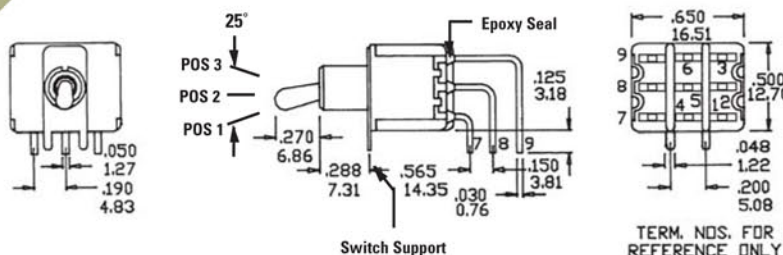
SPDT

**M7**

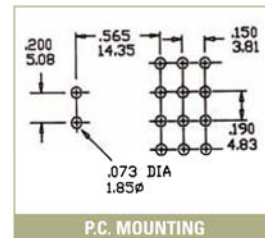
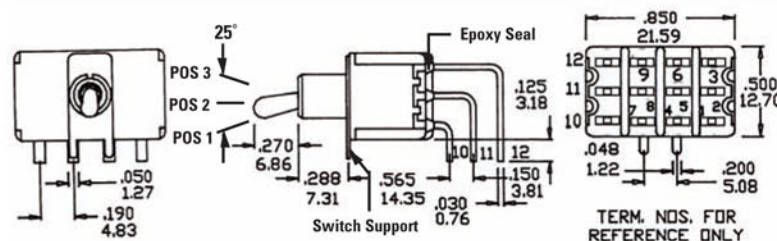
DPDT

**M7**

3PDT

**M7**

4PDT



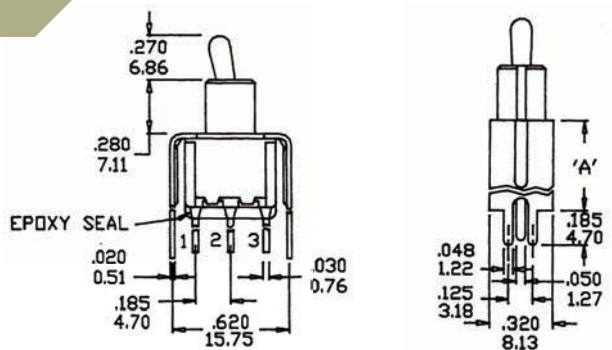
TACT
SWITCHESNAVIGATION
SWITCHESPUSHBUTTON
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SWITCHESROCKER
SWITCHESSLIDE
SWITCHESSNAP-ACTION
SWITCHESDIP
SWITCHESKEYLOCK
SWITCHESROTARY
SWITCHESDETECTOR
SWITCHESCAP
OPTIONS

SERIES 100 SWITCHES

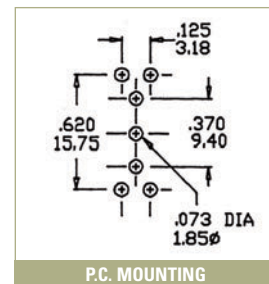
TOGGLE SWITCHES - MINIATURE

VS2-VS3

SPDT



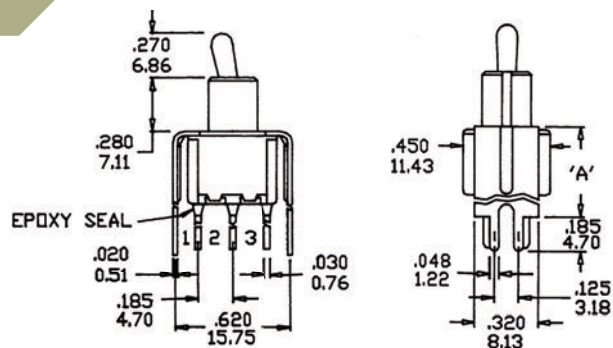
Option Code	Dim. 'A'
VS2	.460 (11.68)
VS3	.630 (16.00)



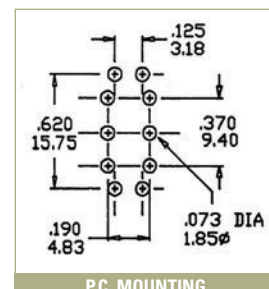
P.C. MOUNTING

VS2-VS3

DPDT



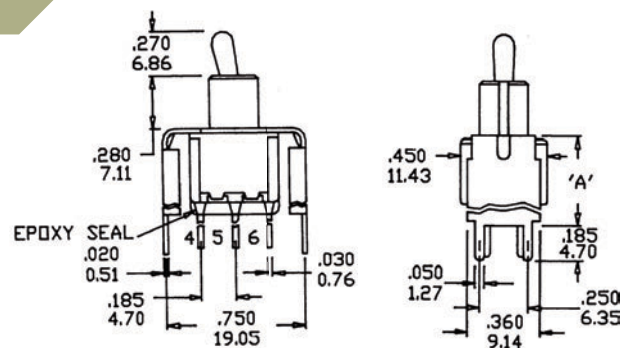
Option Code	Dim. 'A'
VS2	.460 (11.68)
VS3	.630 (16.00)



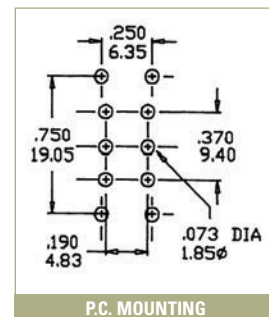
P.C. MOUNTING

VS5

DPDT



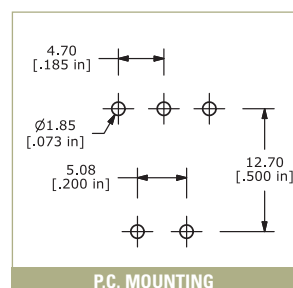
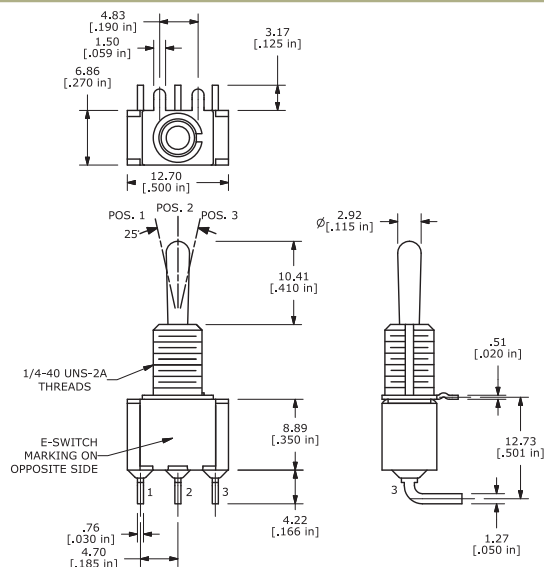
Option Code	Dim. 'A'
VS5	.630 (16.00)



P.C. MOUNTING

M61

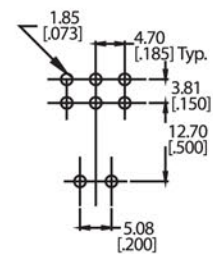
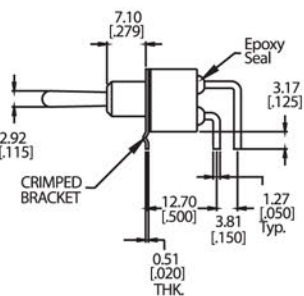
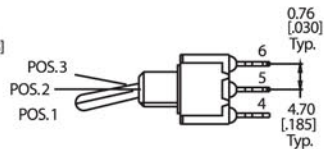
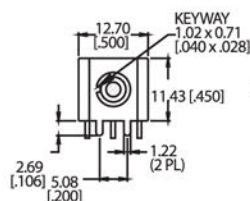
SPDT



P.C. MOUNTING

**M61**

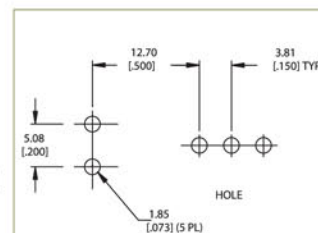
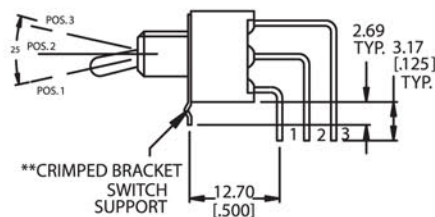
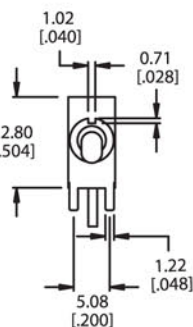
DPDT



P.C. MOUNTING

M71

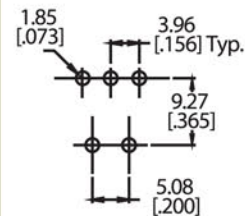
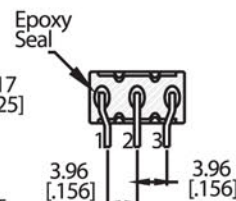
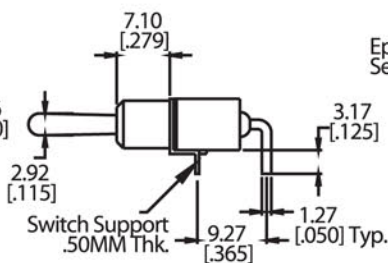
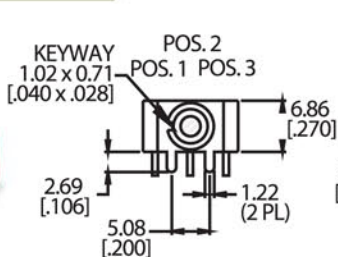
SPDT



P.C. MOUNTING

M64

SPDT



P.C. MOUNTING



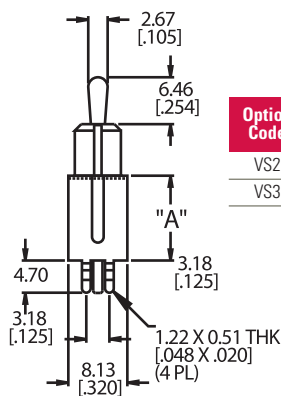
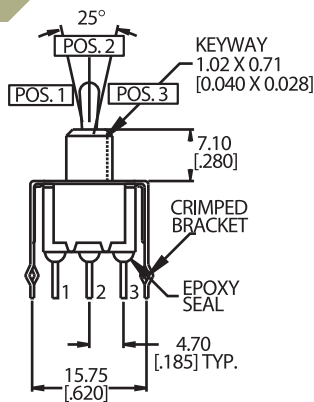
SERIES 100 SWITCHES

TOGGLE SWITCHES - MINIATURE

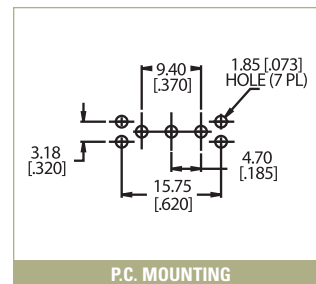
TACT
SWITCHESNAVIGATION
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SWITCHESDIP
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SWITCHESCAP
OPTIONS

VS21-VS31

SPDT



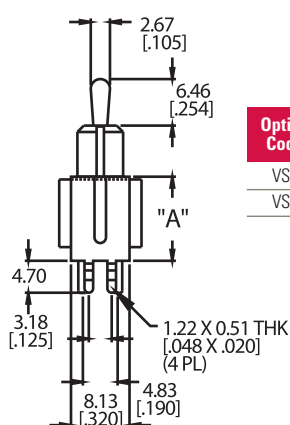
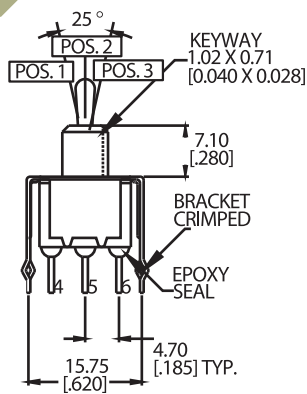
Option Code	Dim. 'A'
VS2	.460 (11.68)
VS3	.630 (16.00)



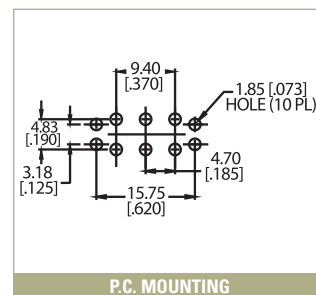
P.C. MOUNTING

VS21-VS31

DPDT



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

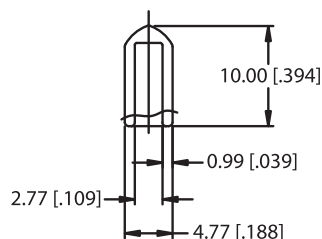


P.C. MOUNTING

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

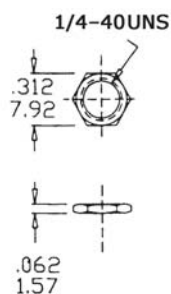
R

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)



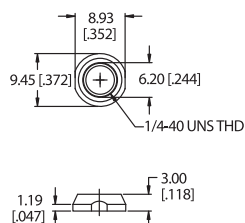
HARDWARE

HDW2 1/4 IN. NUTS

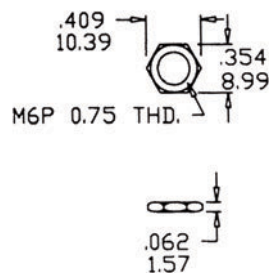


Supplied standard with
B1, B3, B5, B6 and B9 options

HDW3 BLIND DRESSNUT

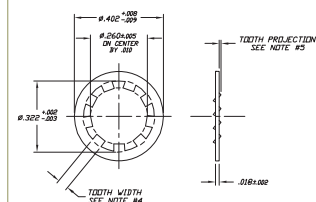


HDW6 METRIC NUT

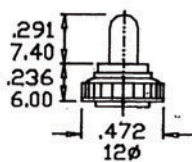


Supplied standard with B8
metric bushing

HDW11 LOCK WASHER

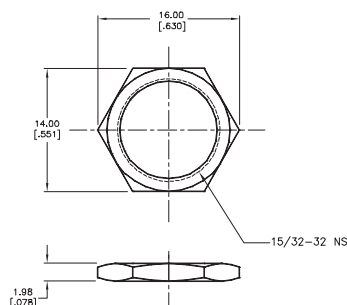


Supplied standard with B1/B3
bushing

Optional Rubber Hood
Sealing E1

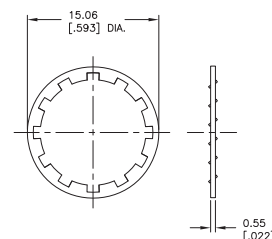
E1= Inch (Std.) for actuator T1, T2 and bushings
B1, B3, B5, B6 Optional rubber boot sealing

HDW4 15/32 IN. NUTS



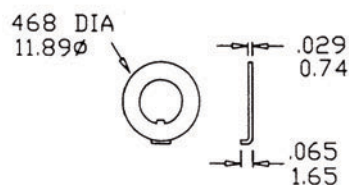
Supplied standard with B13 bushing

HDW12 LOCK WASHER



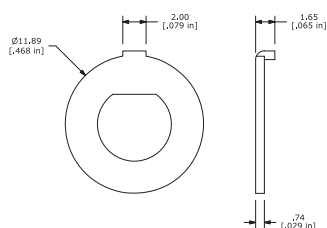
Supplied standard with B13 bushing

HDW15 LOCKING RING



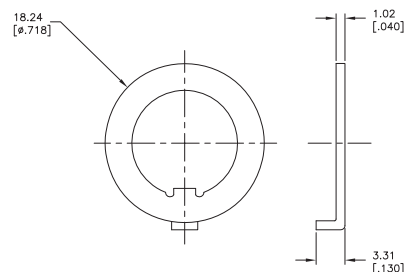
Supplied standard

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