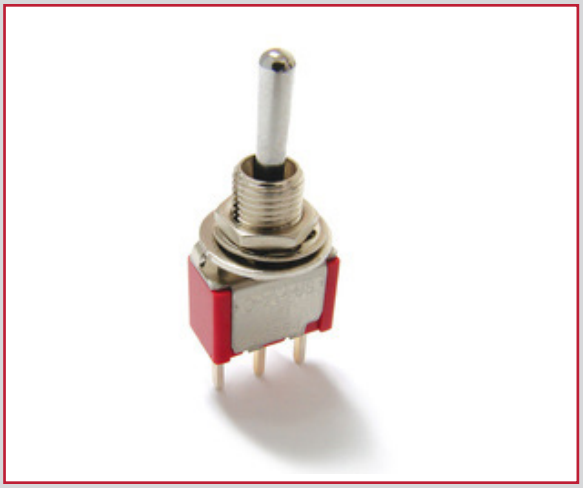
100 Series Toggle Switch



Applications / Markets

Floor Care Appliances

Commercial Appliances

Industrial Controls

Medical / Dental

HVAC

Vending Machines

RoHS

Specifications

Contact Rating: Silver - 5 Amps with resistive load @ 120VAC or 28VDC;
2 Amps with resistive load @ 250VAC
Gold - 0.4 Volt-Amps (VA) max. @ 20V max. (AC or DC)
Mechanical Life: 40,000 Make-and-Break Cycles
Electrical Life: 6,000 at Full Power
Contact Resistance: 10mΩ Max. Initial
Insulation Resistance: 1,000MΩ Min.
Dielectric Strength: 1,000V RMS at Sea Level
Operating Temperature: -40°C to 85°C
Torque: Max. 5kg·cm (70 ounce·inch)

Features & Benefits

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

Part Number Configurator

Series
100

Function
SP1 - SPDT - On - None - On
SP2 - SPDT - On - None - (On) *
SP3 - SPDT - On - Off - On
SP4 - SPDT - (On) - Off - (On) *
SP5 - SPDT - On - Off - (On) *
DP1 - DPDT - On - None - On
DP2 - DPDT - On - None - (On) *
DP3 - DPDT - On - Off - On
DP4 - DPDT - (On) - Off - (On) *
DP5 - DPDT - On - Off - (On) *
DP6 - DPDT - On - On - On
DP7 - DPDT - On - On - (On) *
DP8 - DPDT - (On) - On - (On) *
3P1 - 3PDT - On - None - On
3P2 - 3PDT - On - None - (On) *
3P3 - 3PDT - On - Off - On
3P4 - 3PDT - (On) - Off - (On) *
3P5 - 3PDT - On - Off - (On) *
4P1 - 4PDT - On - None - On
4P2 - 4PDT - On - None - (On) *
4P3 - 4PDT - On - Off - On
4P4 - 4PDT - (On) - Off - (On) *
4P5 - 4PDT - On - Off - (On) *
4P6 - 4PDT - On - On - On
4P7 - 4PDT - On - On - (On) *
4P8 - 4PDT - (On) - On - (On) *

Actuator
T1 - Standard Height = 0.410 ***
T2 - Height = 0.200
T3 - Height = 0.550
T4 - Height = 0.640
T5 - Height = 0.840
T6 [1] - Height = 0.484 Flatted With Built-In Antirotation. Use with B11, B12, B15, B16 Only.
T7 [2] - Use With B13 Bushing Only
T8 [2] - Use With B13 Bushing Only
T9 [7] - Plastic Black Height = 0.840 B1, B3, & B9 Bushing Standard
K1 [6]
K2 [6]

Bushing
B1 - THD-STD
B2 [3] - NON-THD
B3 - THD-STD
B4 [8] - NON-THD Standard For M6, M7 & VS Termination
B5 - HIGH TORQUE
B6 - HIGH TORQUE
B8 - METRIC-THD
B9 - SPLASH PROOF
B11 [4] - THD-STD For T6 Only
B12 [3 4] - NON-THD For T6 Only
B13 [5] - For T7 & T8 Only
B15 [4] - THD-STD For T6 Only
B16 [3 4] - NON-THD For T6 Only
B25 - For K1 & K2 Only **
B26 - For K1 & K2 Only **

Termination
M1 - Solder Lug
M2 - PCB Mount
M3 - Quick Connect
M5 - Wire Wrap
M6 - Horizontal Rt. Angle PCB Mount
M61 - Horizontal Rt. Angle PCB Mount w/Retention Bracket
M7 - Vertical Rt. Angle PCB Mount
M71 - Vertical Rt. Angle w/Retention Bracket
VS2 [9] - Vertical Bracket PCB Mount Dim A = 0.460
VS3 [9] - Vertical Bracket PCB Mount Dim A = 0.630
VS5 - Vertical Bracket PCB Mount Dim A = 0.630 *
VS64 - Horizontal Rt. Angle *
VS21 - Vertical w/Retention Bracket Dim A = 0.460 *
VS31 - Vertical w/Retention Bracket Dim A = 0.630 *

Contact Material
Q- Silver
R - Gold

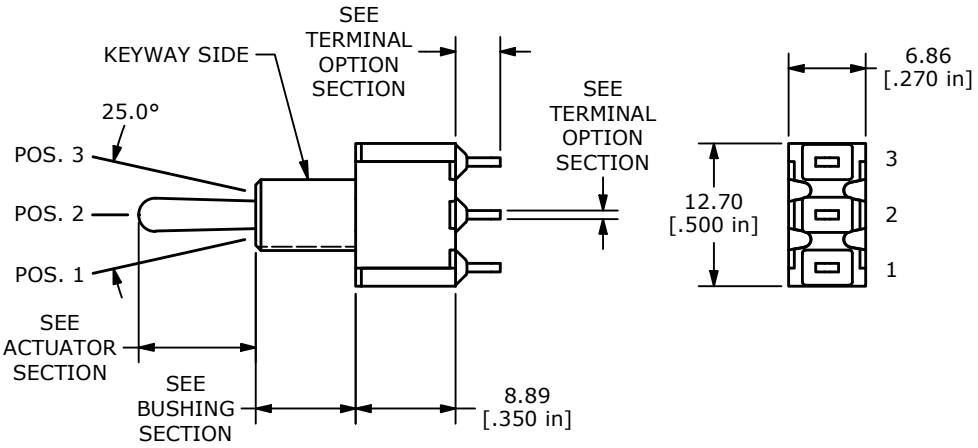
Seal
E - Epoxy Sealed

Hardware
(None)
H - Hardware to be used with threaded bushing options only

NOTES:
( ) = Denotes function is momentary
* = Not available with K1 or K2 Actuator
** = Only available with K1 or K2 Actuator
*** = Optional Toggle Cap (T1 only) T100-1 = White T100-2 = Black
[1] = Only available with B11, B12, B15, B16 Bushing
[2] = Only available with B13 Bushing
[3] = NON-THD has no hardware avialable
[4] = Only available with T6 Actuator
[5] = Only available with T7 and T8 Actuators
[6] = Only available with B25 and B26 Bushings
[7] = Add 1.78 [.070 in] for B3 and B4 Bushings Subtract 0.51 [.020 in] for B6 Bushing
[8] = B4 is standard for M6, M7, and VS Terminations
[9] = VS2 and VS3 frame requires M2 Termination

Specifications subject to change without notice 11.4.2025

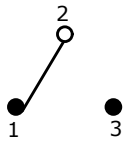
Function Options

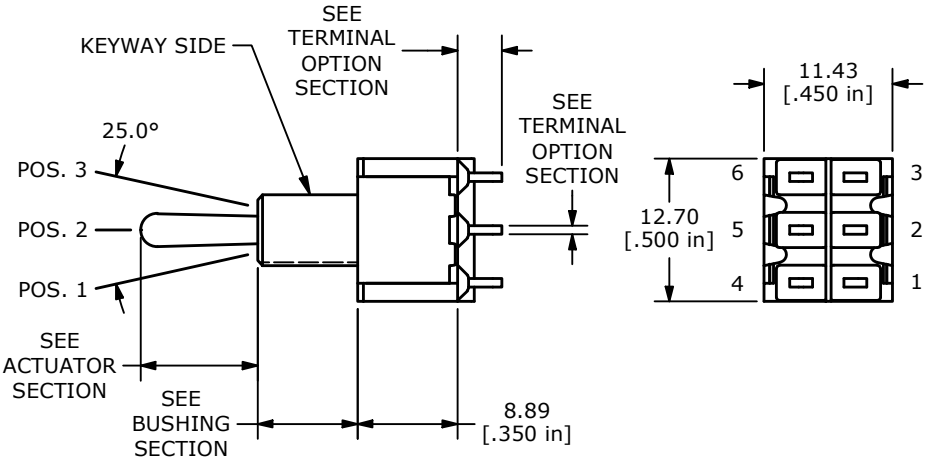


Single Pole

MODEL NO.	POS. 1	POS. 2	POS. 3
SP1	ON	NONE	ON
SP2*	ON	NONE	(ON)
SP3	ON	OFF	ON
SP4*	(ON)	OFF	(ON)
SP5*	ON	OFF	(ON)
TERMINAL CLOSURE	2-3	OPEN	2-1

( ) = MOMENTARY
* = NOT AVAILABLE W/ K1 & K2 ACTUATOR

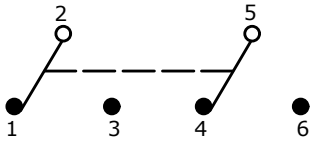




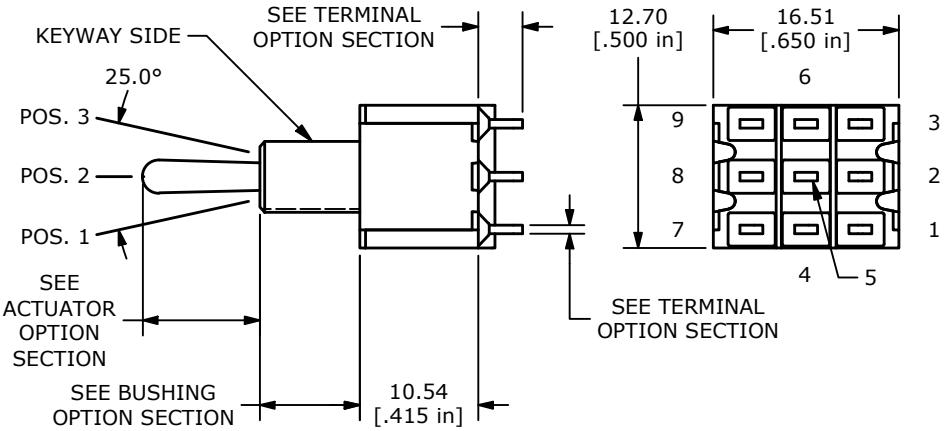
Double Pole

MODEL NO.	POS. 1	POS. 2	POS. 3
DP1	ON	NONE	ON
DP2*	ON	NONE	(ON)
DP3	ON	OFF	ON
DP4*	(ON)	OFF	(ON)
DP5*	ON	OFF	(ON)
DP6	ON	ON	ON
DP7*	ON	ON	(ON)
DP8*	(ON)	ON	(ON)
TERMINAL CLOSURE	2-3, 5-6	2-3, 5.4	2-1, 5-4

( ) = MOMENTARY
* = NOT AVAILABLE W/ K1 & K2 ACTUATOR



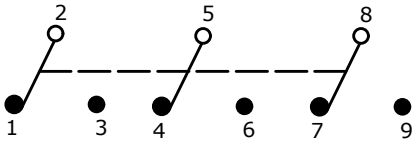
FUNCTION OPTIONS (CONTINUED)

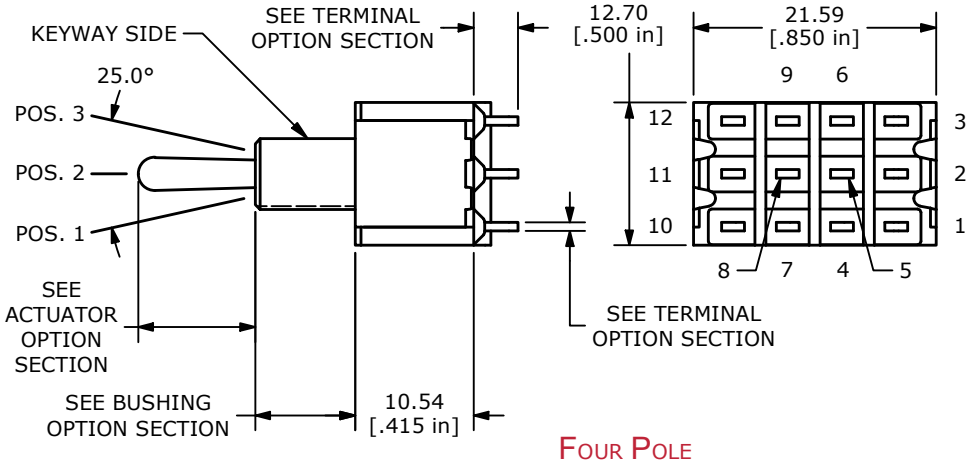


THREE POLE

MODEL NO.	POS. 1	POS. 2	POS. 3
3P1	ON	NONE	ON
3P2*	ON	NONE	(ON)
3P3	ON	OFF	ON
3P4*	(ON)	OFF	(ON)
3P5	ON	OFF	(ON)
TERMINAL CLOSURE	2-3, 5-6, 8-9	OPEN	2-1, 5-4, 8-7

( ) = MOMENTARY
* = NOT AVAILABLE W/ K1 & K2 ACTUATOR

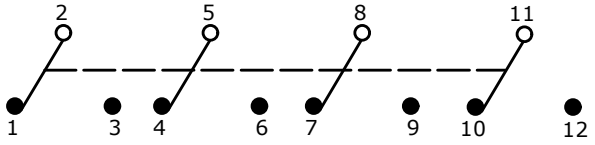




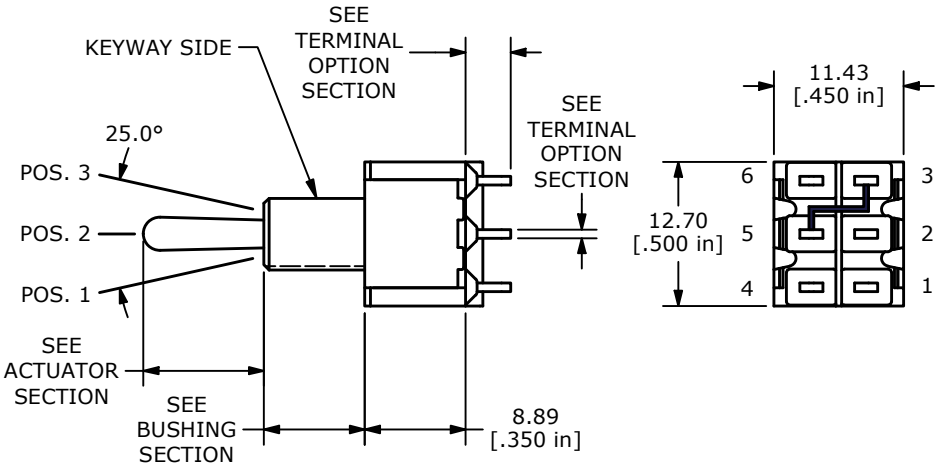
FOUR POLE

MODEL NO.	POS. 1	POS. 2	POS. 3
4P1	ON	NONE	ON
4P2*	ON	NONE	(ON)
4P3	ON	OFF	ON
4P4*	(ON)	OFF	(ON)
4P5*	ON	OFF	(ON)
4P6	ON	ON	ON
4P7*	ON	ON	(ON)
4P8*	(ON)	ON	(ON)
TERMINAL CLOSURE	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
* = NOT AVAILABLE W/ K1 & K2 ACTUATOR

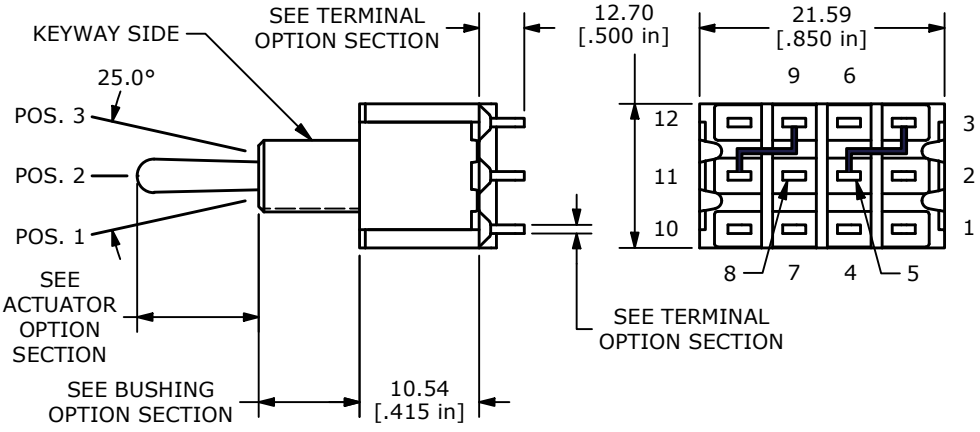


3 - Way Wiring Diagram Schematics



POS. 1	POS. 2	POS. 3
(OUT) 6, 3, 5, 2 (IN), 4, 1	6, 3, 5, 2 (IN), (OUT) 4, 1	6, 3, 5, 2 (IN), 4, 1 (OUT)

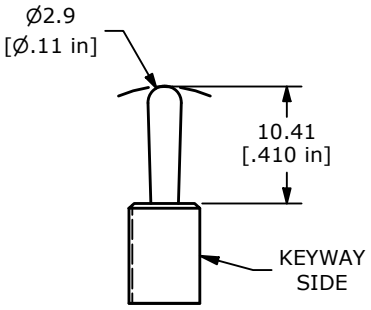
Bottom View for DP6, DP7, DP8



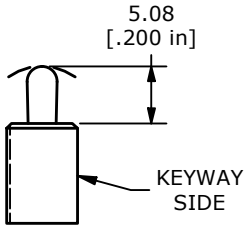
POS. 1	POS. 2	POS. 3
9, 6, 12, 3, 11, 2, 10, 1, 8, 7, 4, 5	9, 6, 12, 3, 11, 2, 10, 1, 8, 7, 4, 5	9, 6, 12, 3, 11, 2, 10, 1, 8, 7, 4, 5

Bottom View for 4P6, 4P7, 4P8

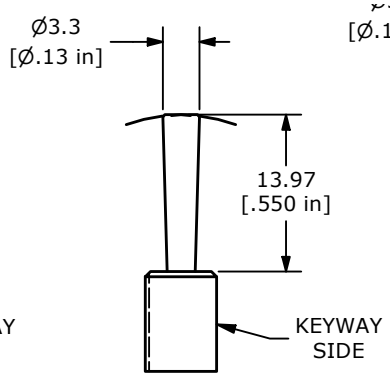
ACTUATOR OPTIONS



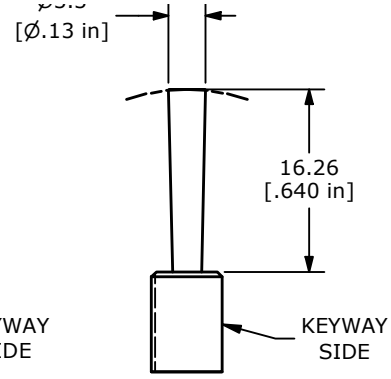
T1*



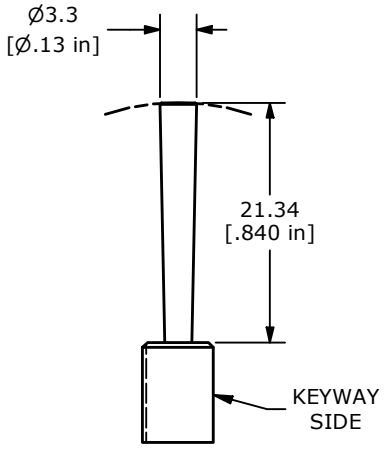
T2*



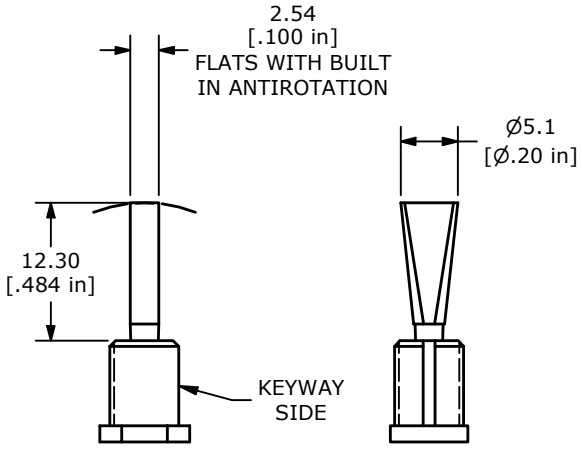
T3*



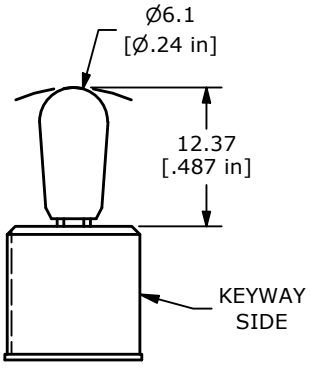
T4*



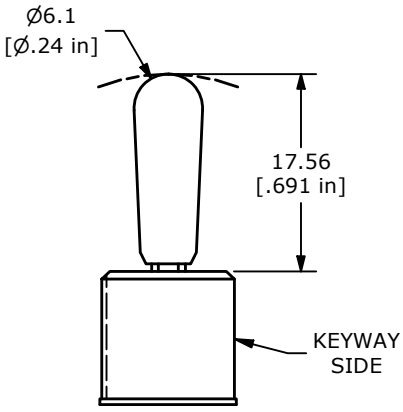
T5*
B3, B4 BUSHING
STANDARD



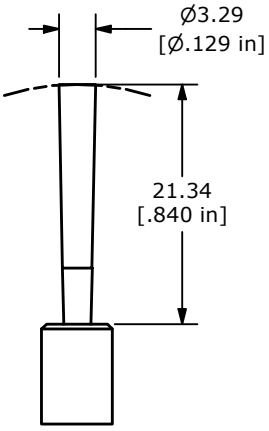
T6
USE WITH B11, B12,
B15, B16 ONLY



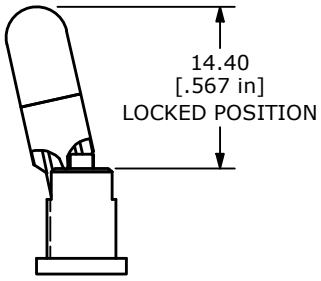
T7
USE WITH B13



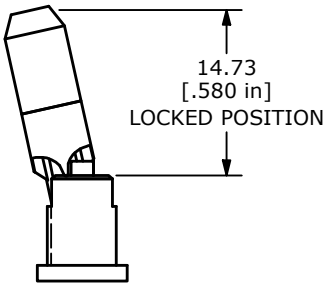
T8
USE WITH B13



T9*
B1, B2
STANDARD



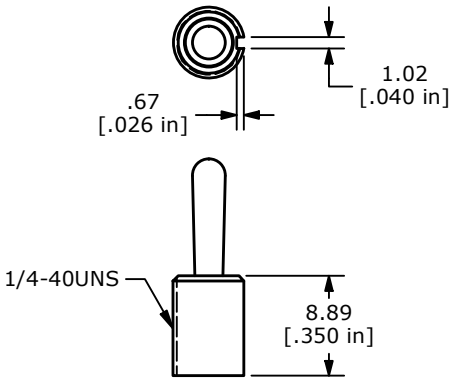
K1
B25, B26 ONLY



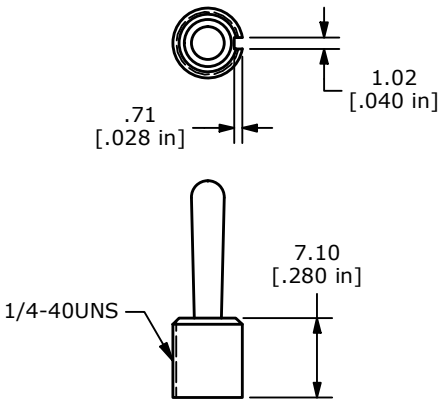
K2
B25, B26 ONLY

* ADD 1.78 [.070] FOR B3, B4
SUBTRACT 0.51 [.020] FOR B6

Bushing Options

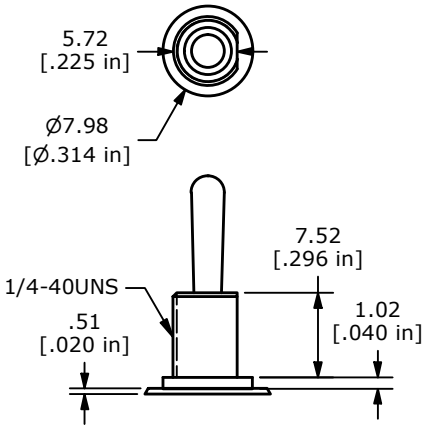


B1 - THD STD
B2 - NON-THD

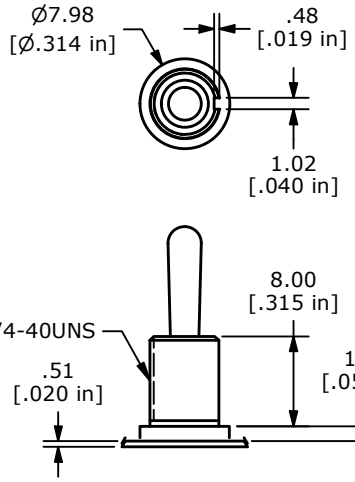


B3 - THD STD
B4 - NON-THD

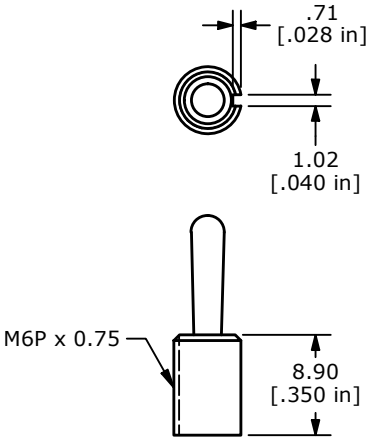
B4 - STD FOR M6, M7, AND VS TERMINATIONS



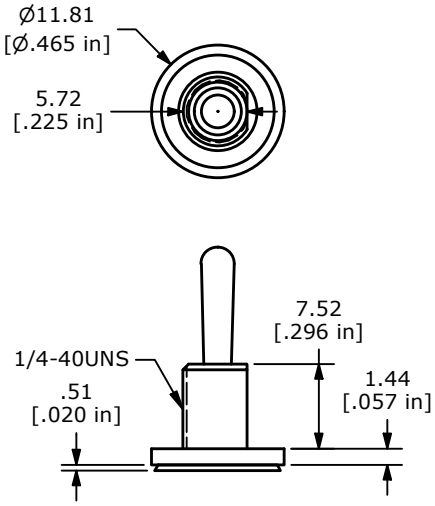
B5 - HIGH TORQUE



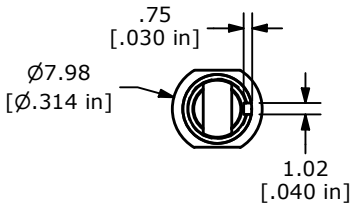
B6 - HIGH TORQUE

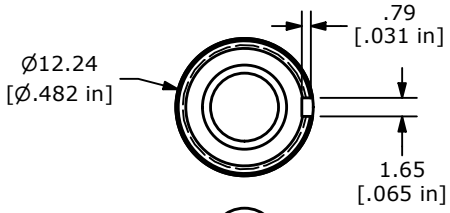


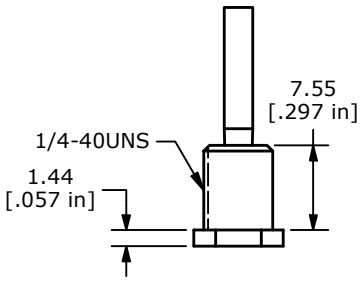
B8 - METRIC THD



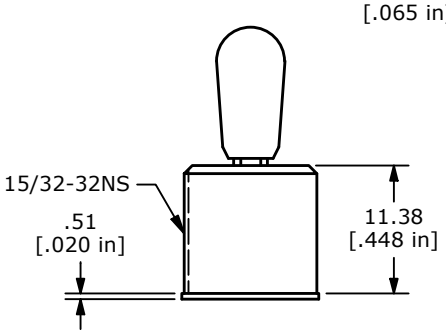
B9 - SPLASH PROOF







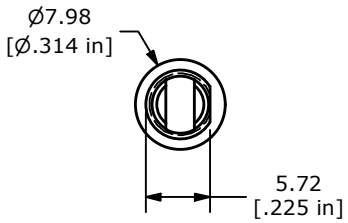
B11 - THD STD
B12 - NON-THD

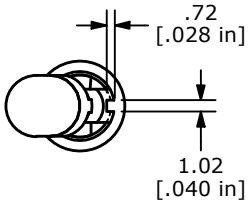


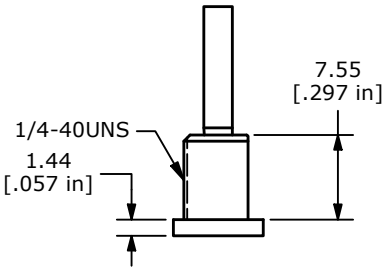
B13

T7, T8 ACTUATORS ONLY

BUSHING OPTIONS (CONTINUED)

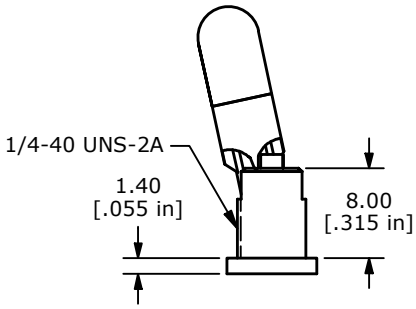






B15 - THD STD
B16 - NON-THD

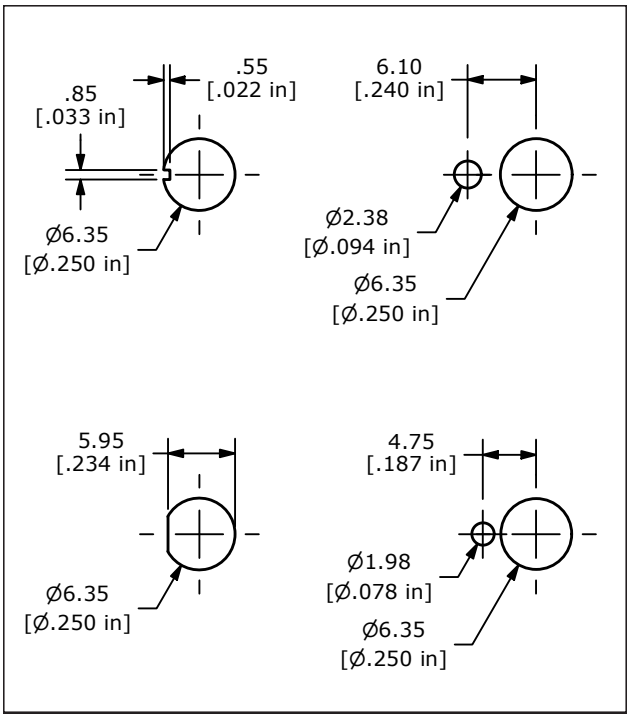
T6
ACTUATOR ONLY



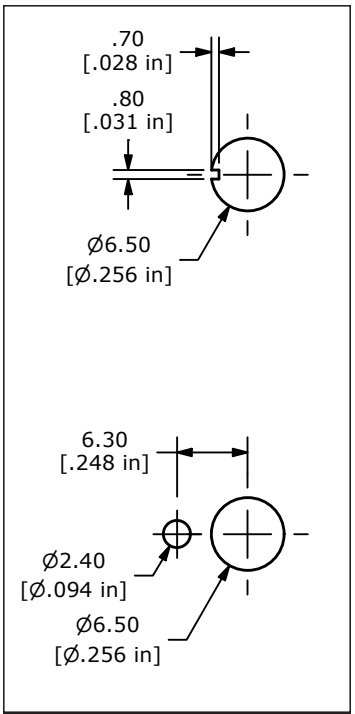
B25 - THD STD
B26 - NON-THD

K1 & K2
ACTUATOR ONLY

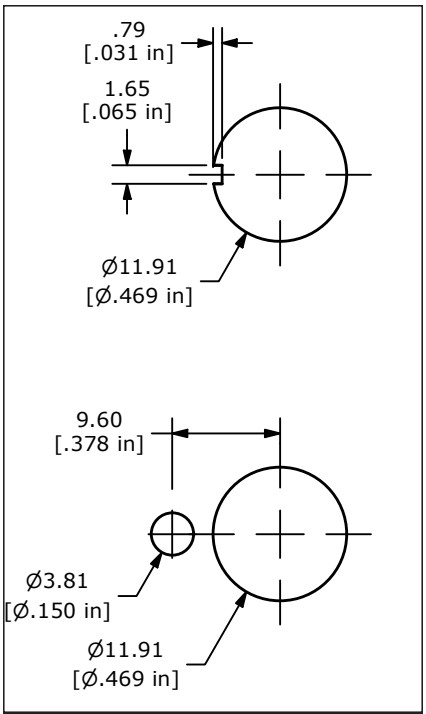
BUSHING OPTIONS PANEL MOUNTING



1/4 IN. BUSHING



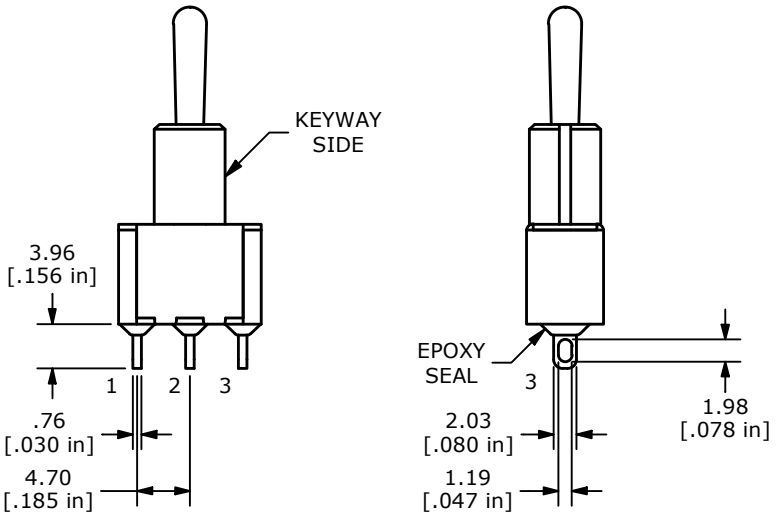
METRIC BUSHING



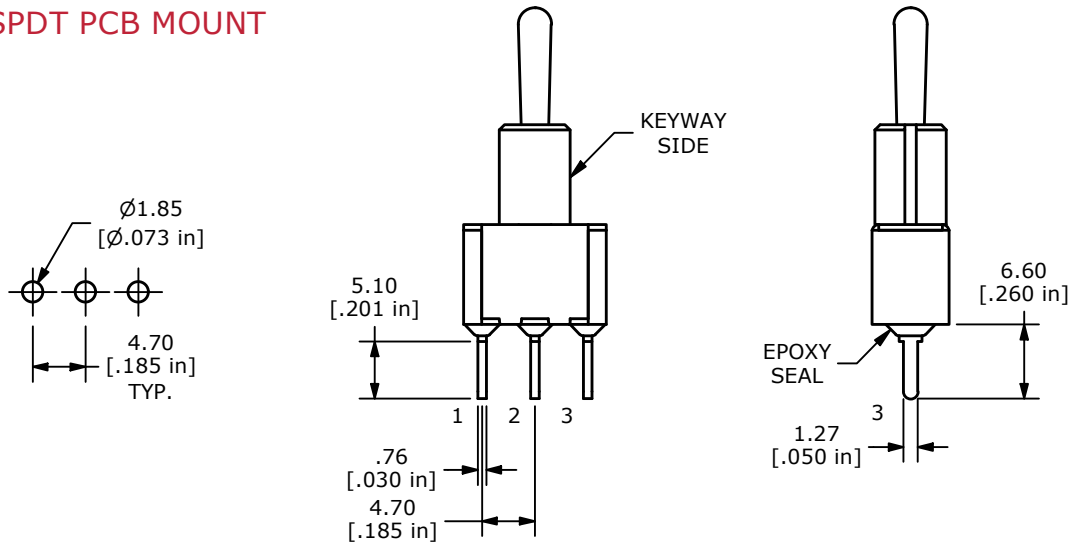
15/32 IN. BUSHING

Termination Options

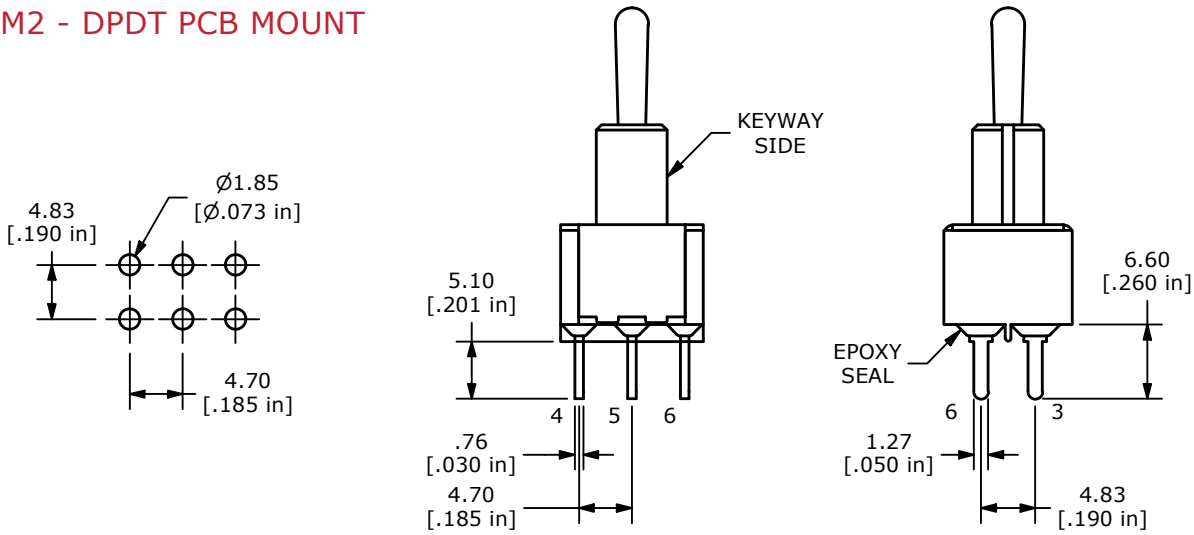
M1 - SOLDER LUG



M2 - SPDT PCB MOUNT

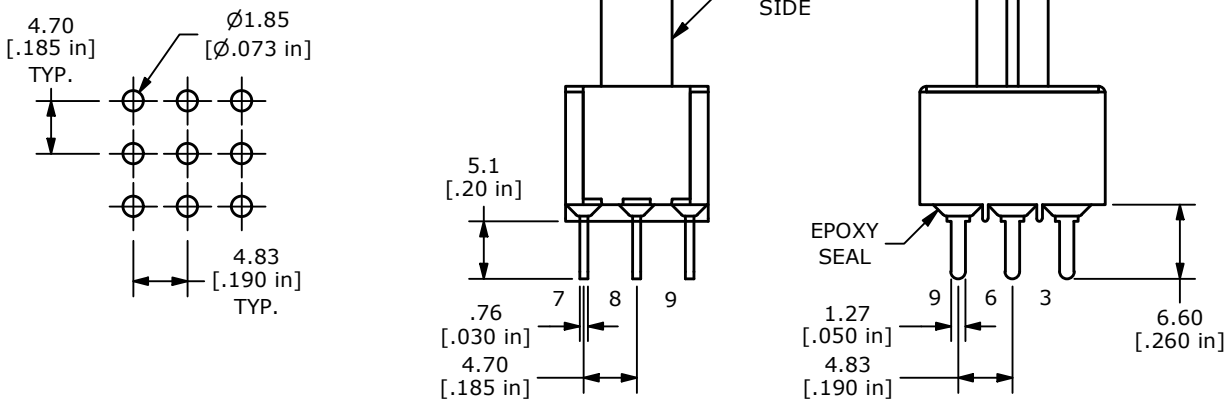


M2 - DPDT PCB MOUNT

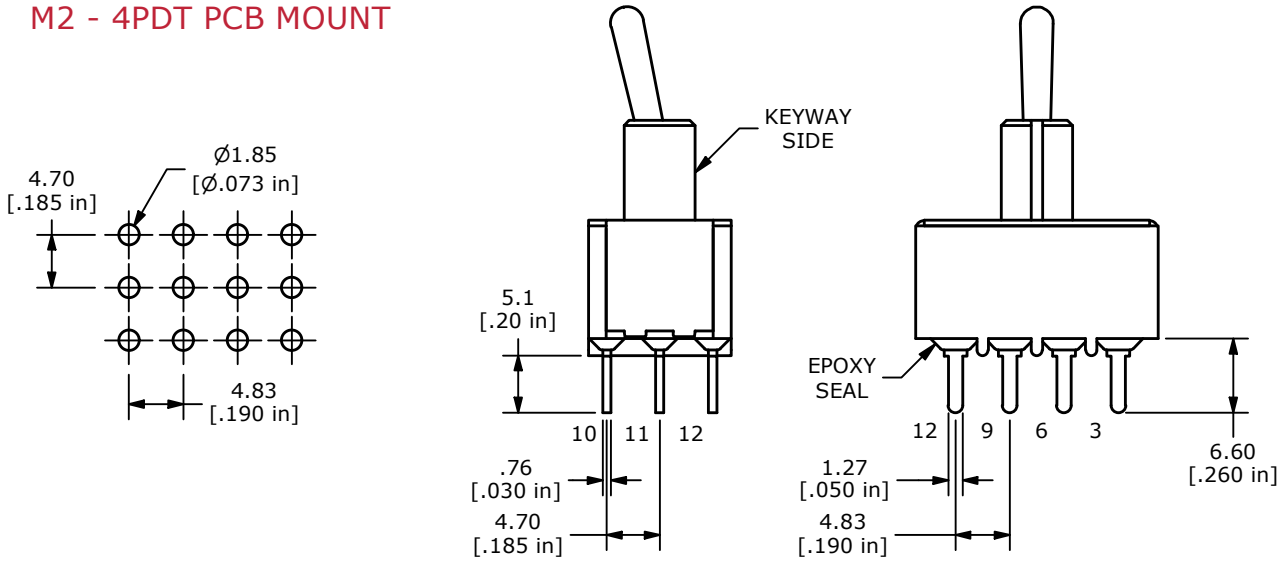


TERMINATION OPTIONS

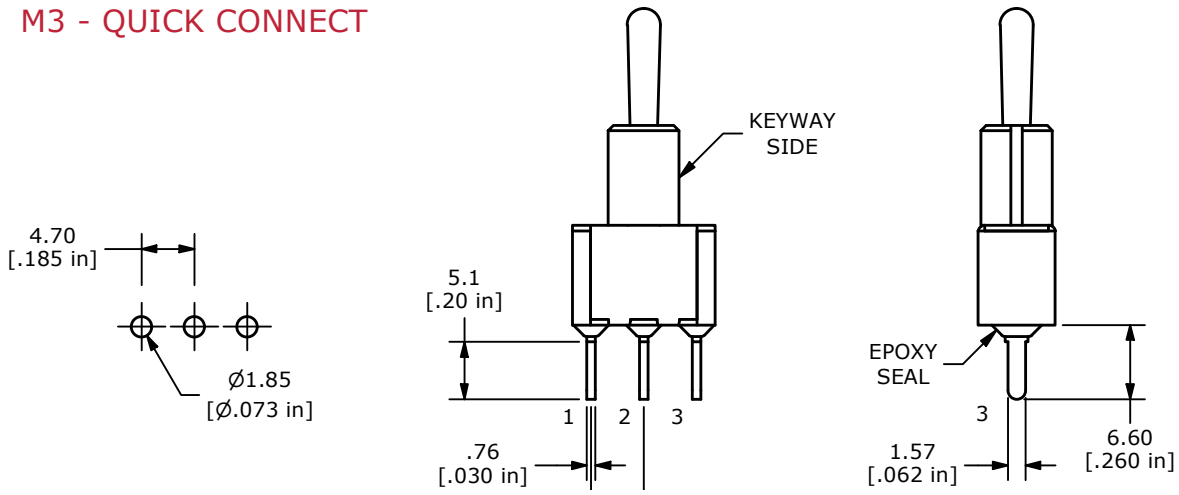
M2 - 3PDT PCB MOUNT



M2 - 4PDT PCB MOUNT



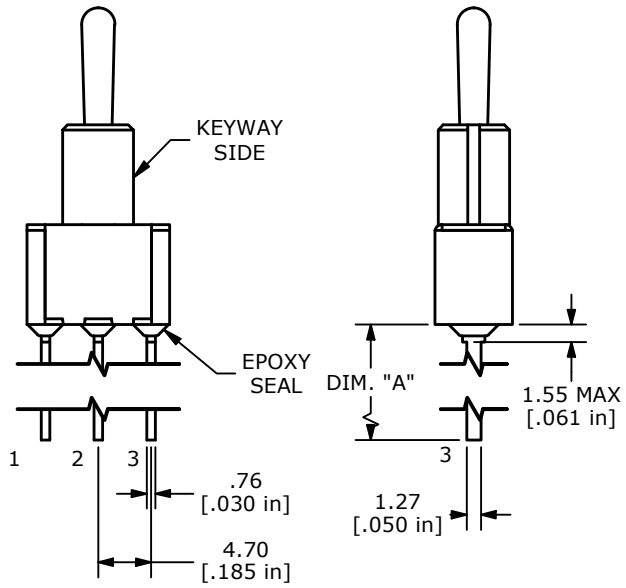
M3 - QUICK CONNECT

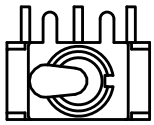


Termination Options

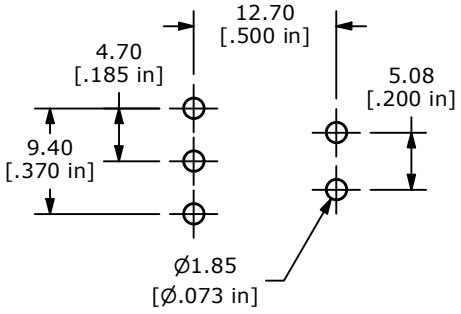
M5 - WIRE WRAP

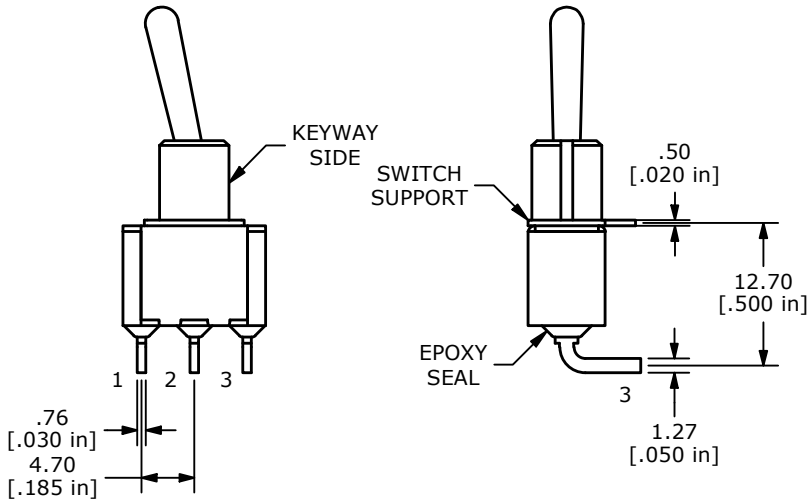
OPTION CODE	DIM "A"
M51	18.70 [0.736 in]
M52	24.20 [0.953 in]
M53	10.55 [0.415 in]
M54	26.97 [1.062 in]



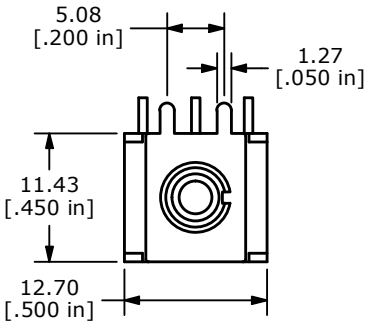


M6 - SP HORIZONTAL RIGHT ANGLE PCB MOUNT

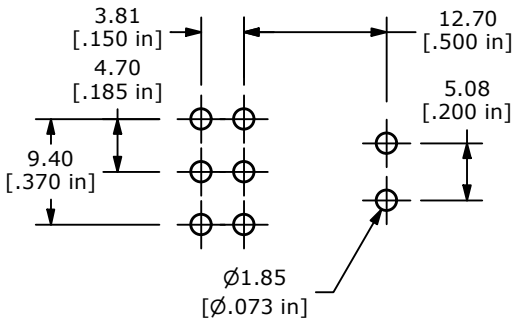


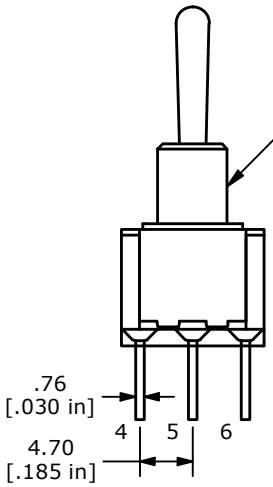


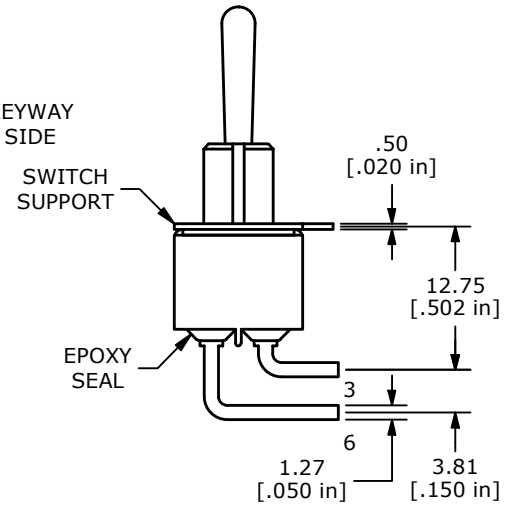
TERMINATION OPTIONS

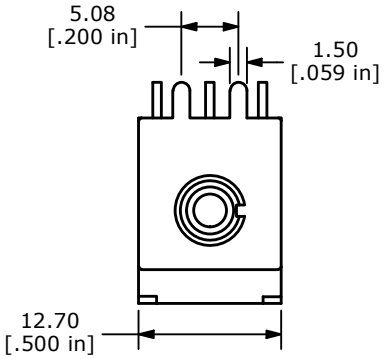


M6 - DP HORIZONTAL RIGHT ANGLE PCB MOUNT

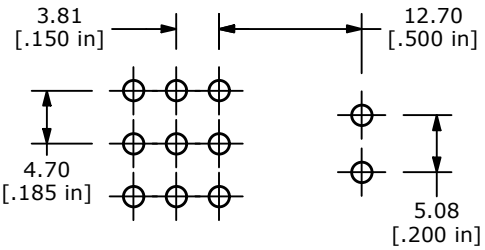


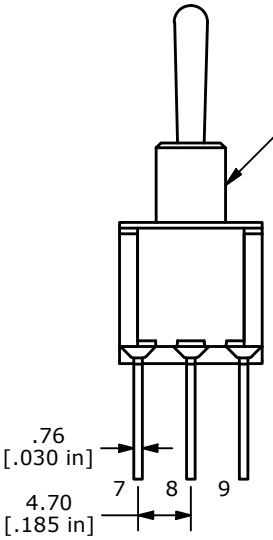


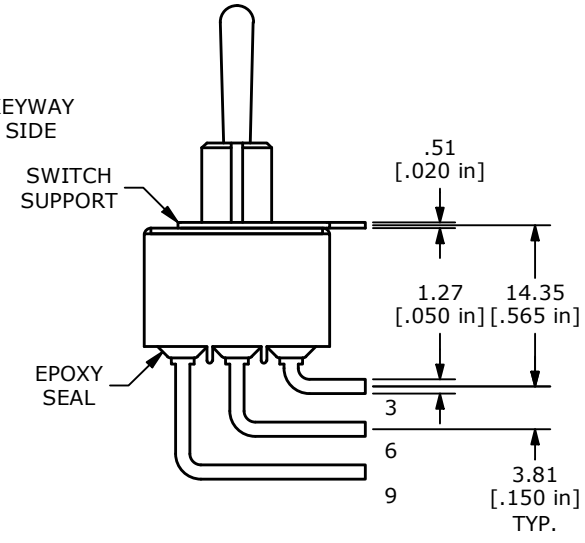




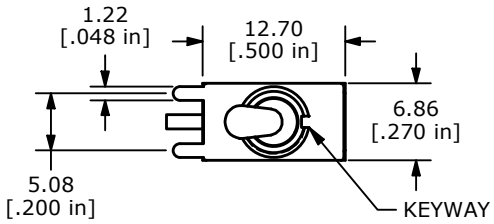
M6 - 3P HORIZONTAL RIGHT ANGLE PCB MOUNT



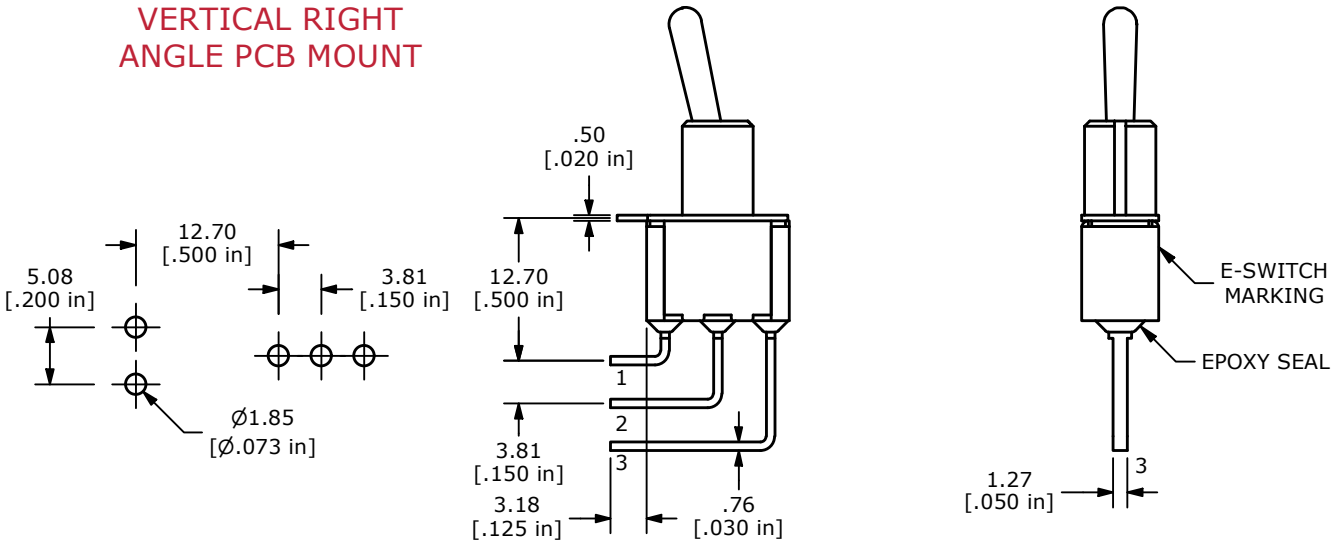


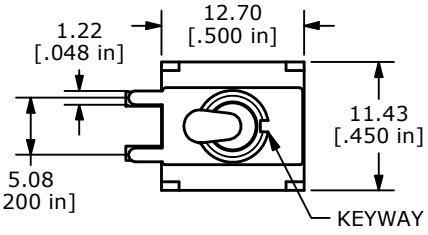


Termination Options

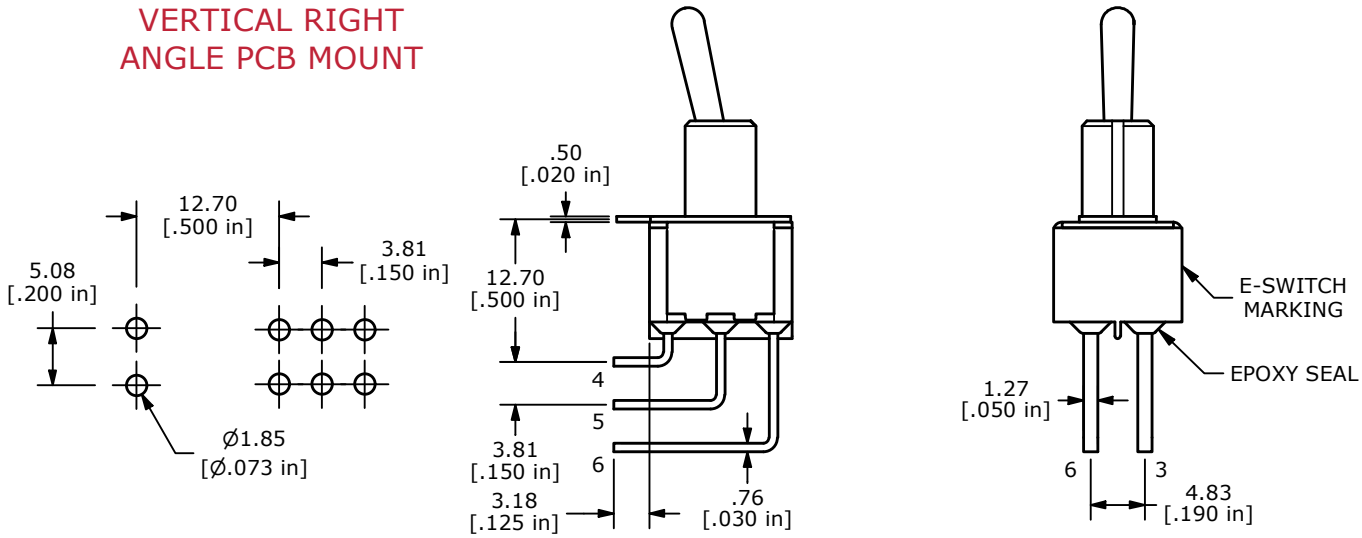


M7 - SP
VERTICAL RIGHT
ANGLE PCB MOUNT



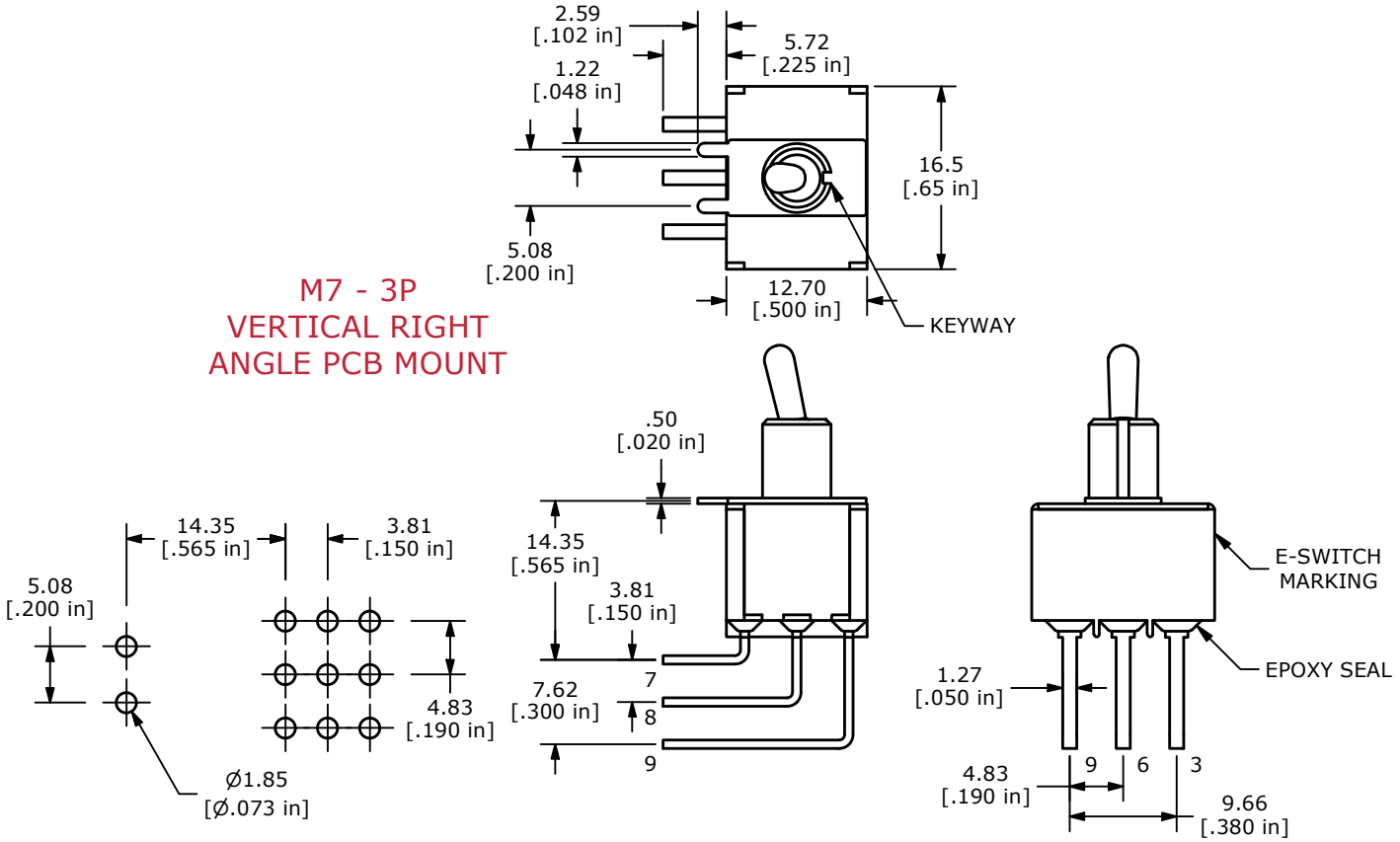


M7 - DP
VERTICAL RIGHT
ANGLE PCB MOUNT

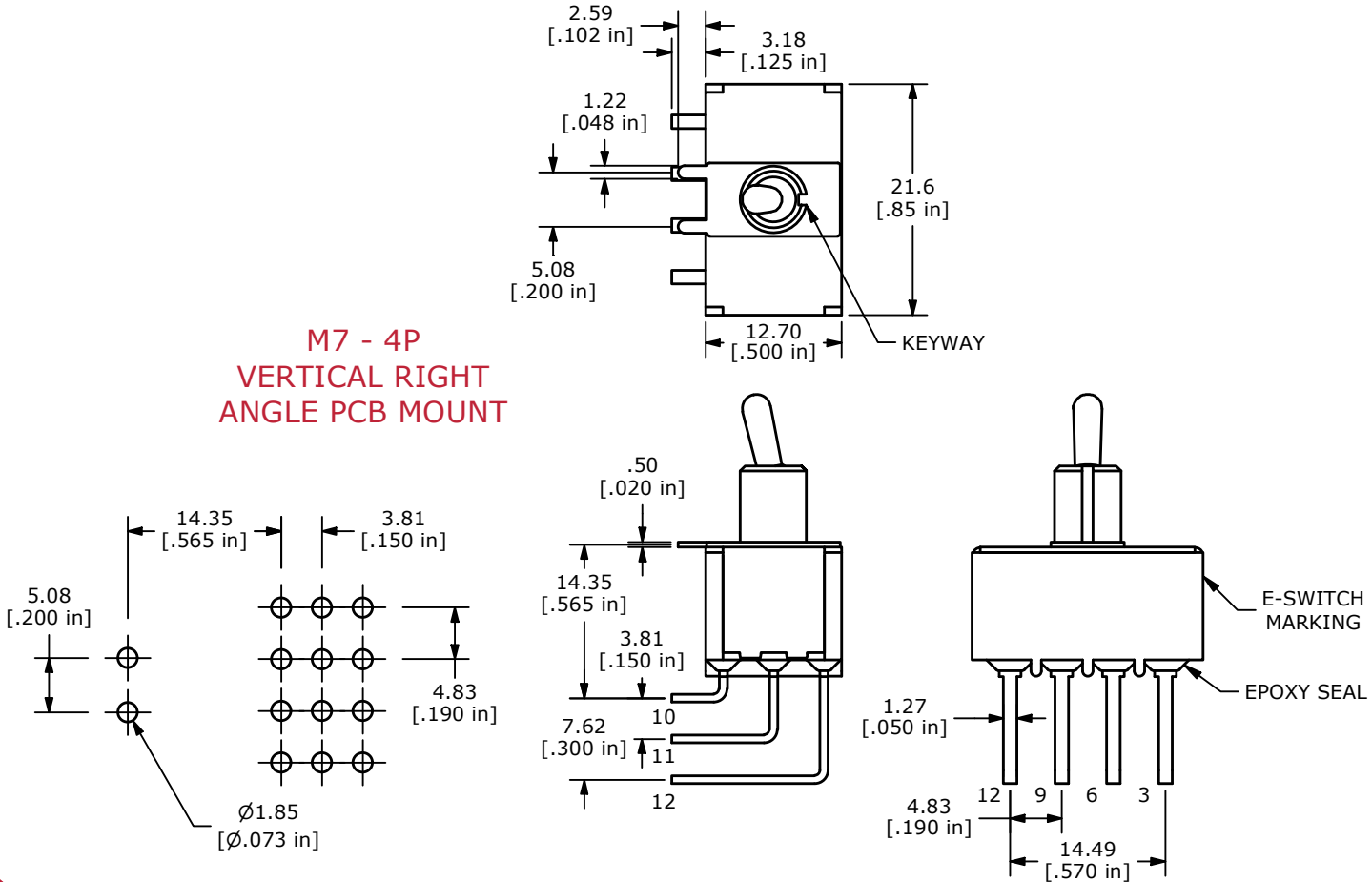


TERMINATION OPTIONS

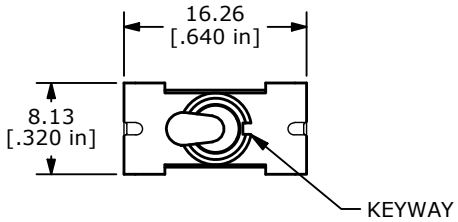
M7 - 3P VERTICAL RIGHT ANGLE PCB MOUNT



M7 - 4P VERTICAL RIGHT ANGLE PCB MOUNT

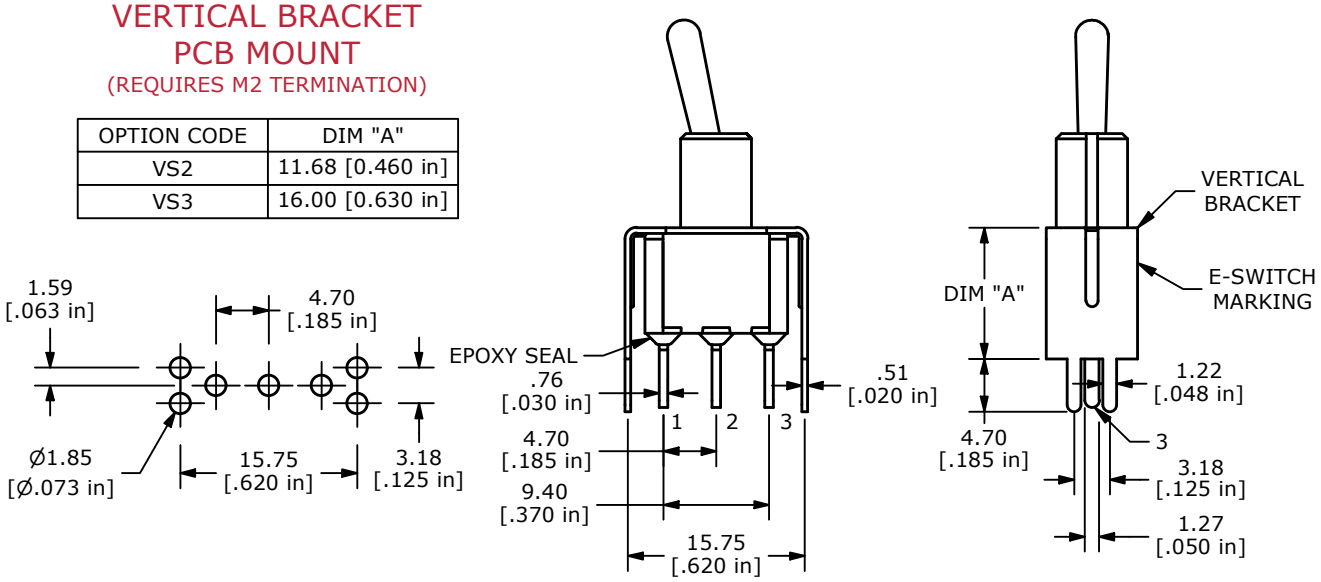


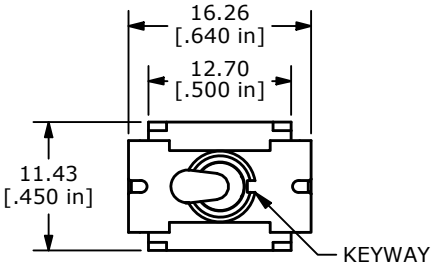
TERMINATION OPTIONS



VS2 - VS3 - SP
VERTICAL BRACKET
PCB MOUNT
(REQUIRES M2 TERMINATION)

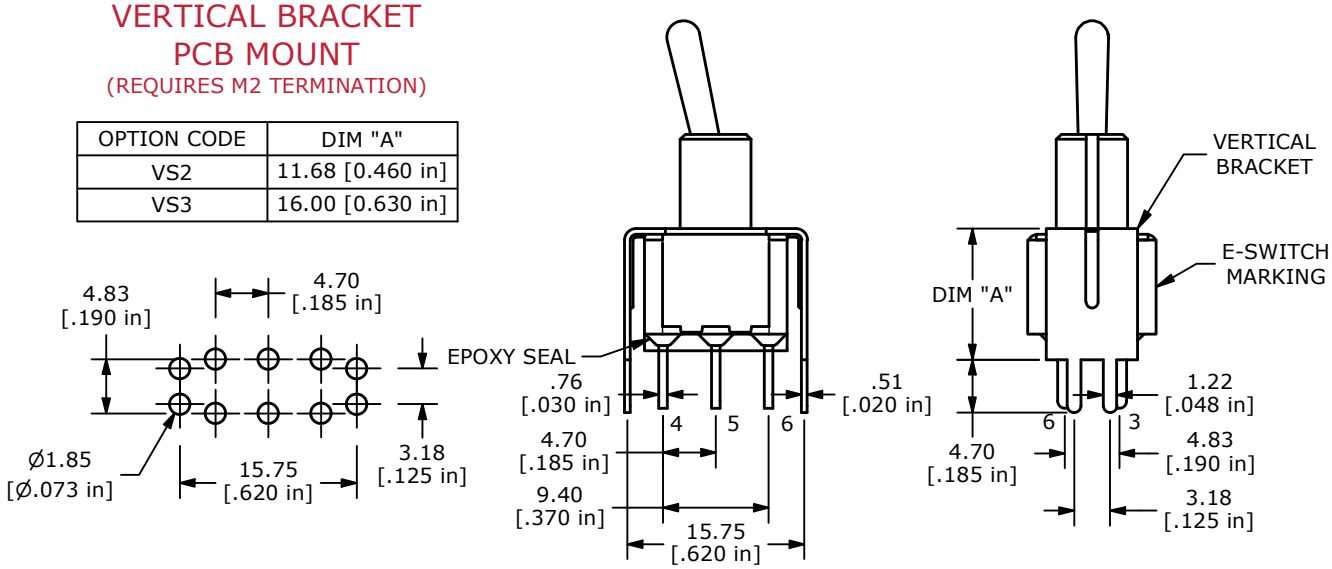
OPTION CODE	DIM "A"
VS2	11.68 [0.460 in]
VS3	16.00 [0.630 in]



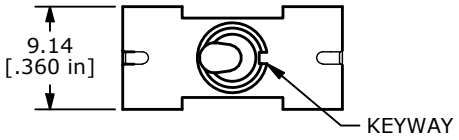


VS2 - VS3 - DP
VERTICAL BRACKET
PCB MOUNT
(REQUIRES M2 TERMINATION)

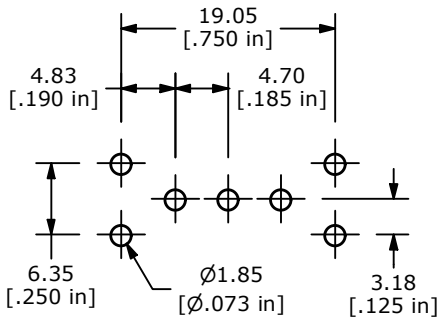
OPTION CODE	DIM "A"
VS2	11.68 [0.460 in]
VS3	16.00 [0.630 in]

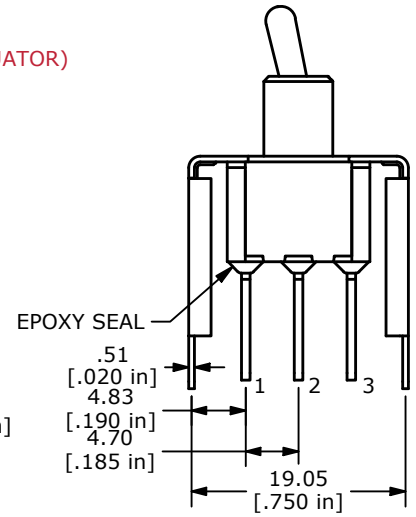


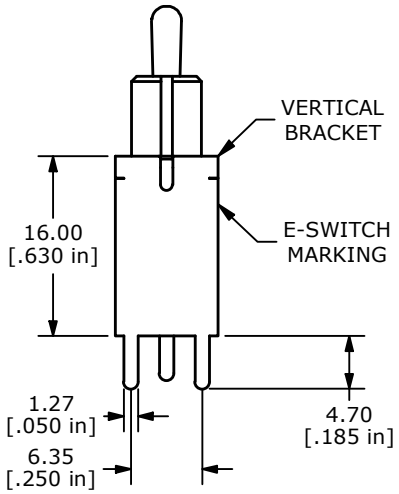
TERMINATION OPTIONS

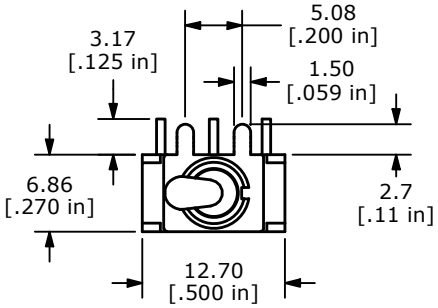


VS5 - SP
VERTICAL BRACKET
PCB MOUNT
(NOT AVAILABLE w/K1 OR K2 ACTUATOR)

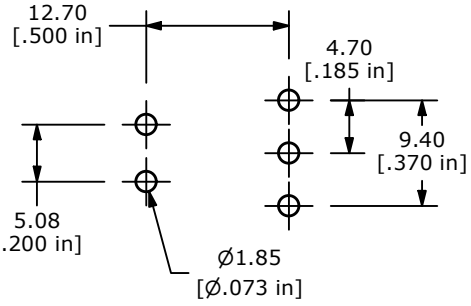


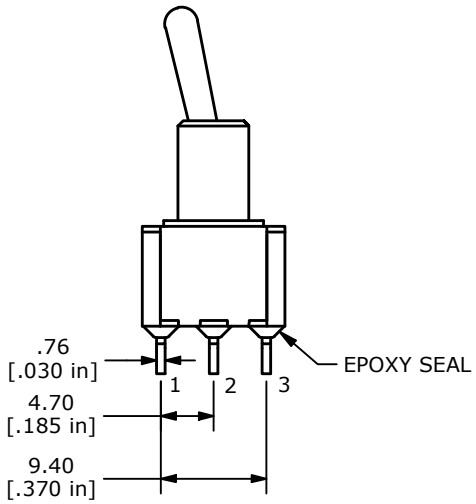


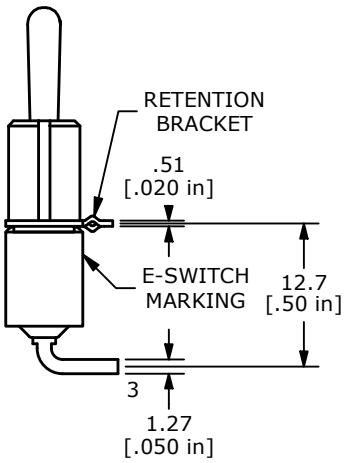




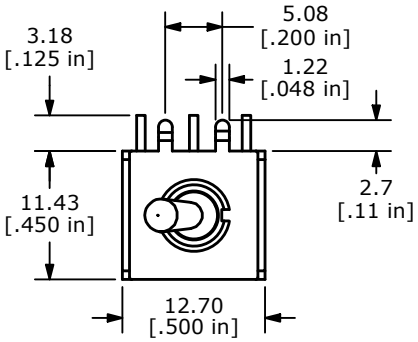
M61 - SP
HORIZONTAL RT.
ANGLE PCB MOUNT
(w/ RETENTION BRACKET)



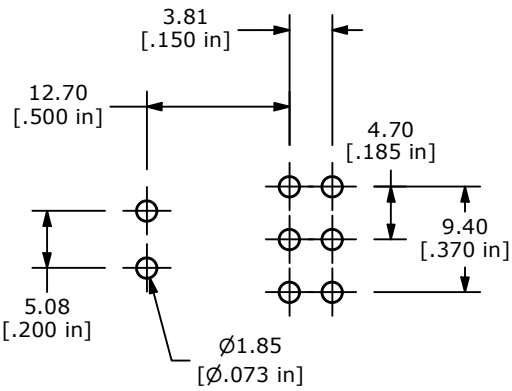


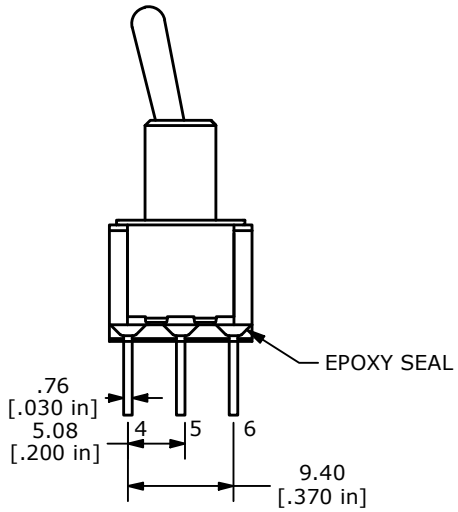


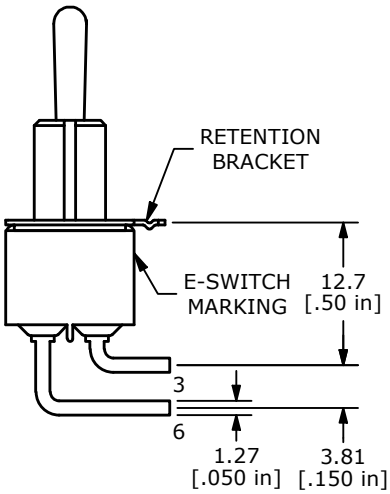
Termination Options

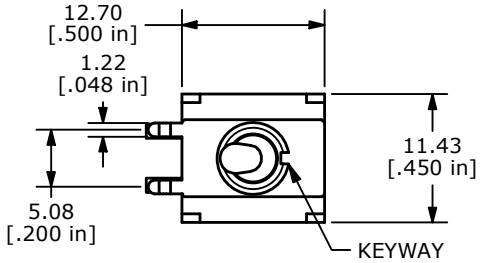


M61 - DP HORIZONTAL RT. ANGLE PCB MOUNT
(w/RETENTION BRACKET)

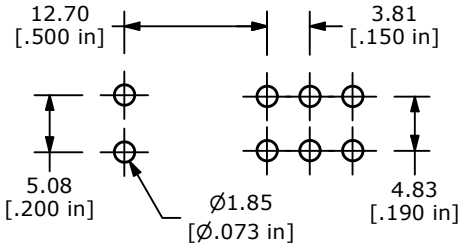


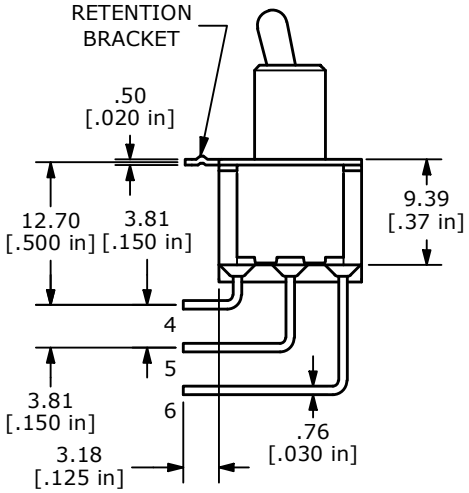


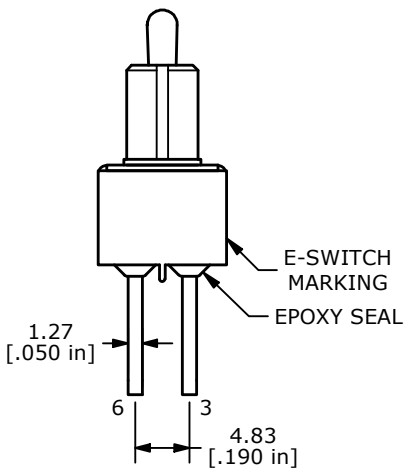




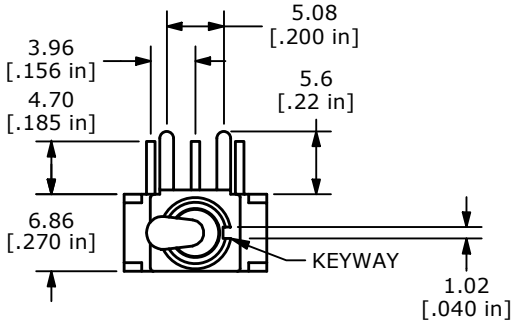
M71 - DP VERTICAL RT. ANGLE PCB MOUNT
(w/RETENTION BRACKET)



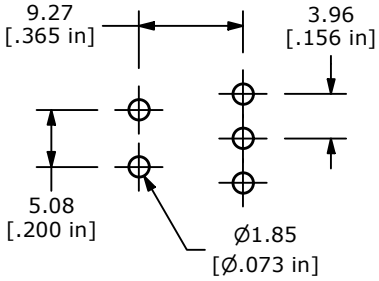


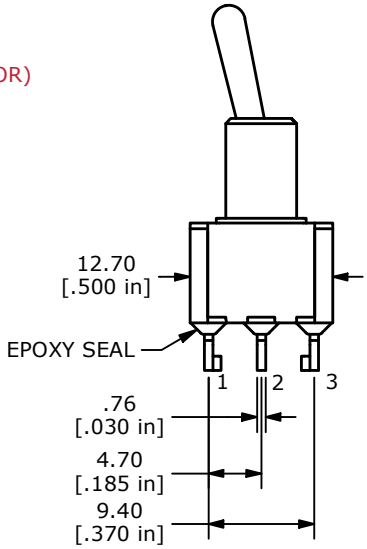


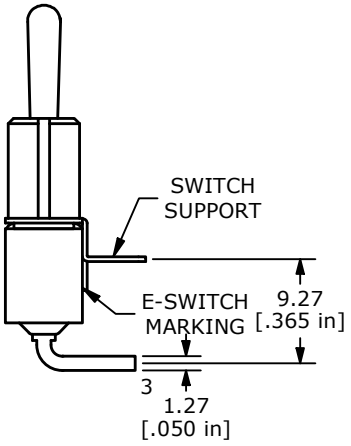
TERMINATION OPTIONS

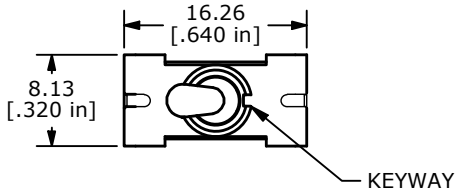


M64 - SP
HORIZONTAL RT. ANGLE PCB MOUNT
(NOT AVAILABLE w/K1 OR K2 ACTUATOR)



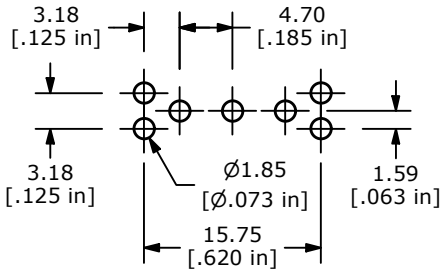


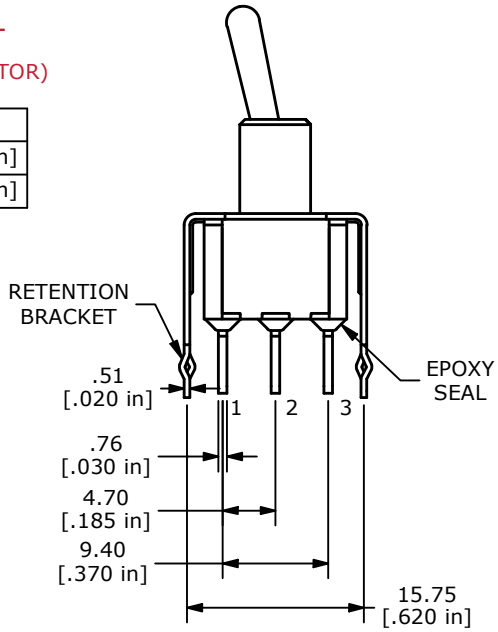


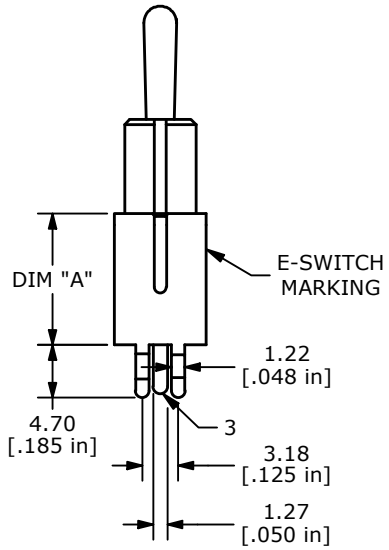


VS21 - VS31 - SP
VERTICAL PCB MOUNT
(NOT AVAILABLE w/K1 OR K2 ACTUATOR)

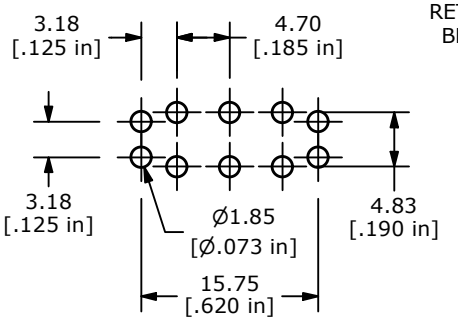
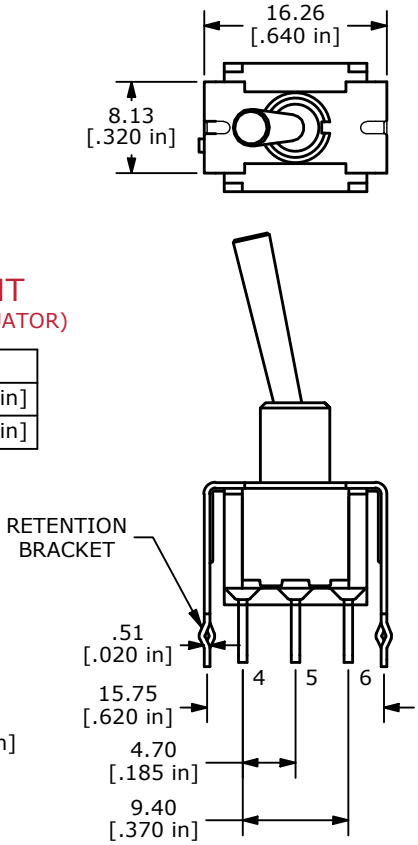
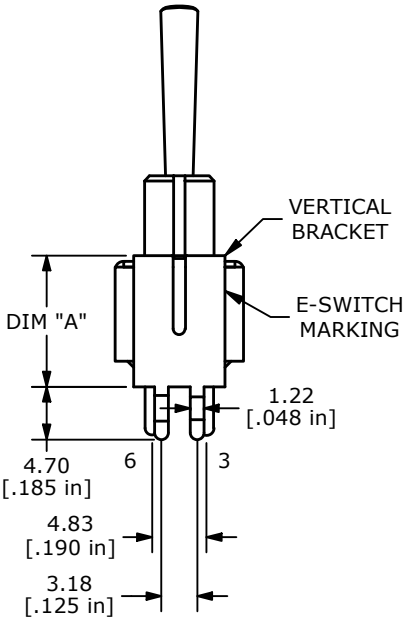
OPTION CODE	DIM "A"
VS21	11.68 [0.460 in]
VS31	16.00 [0.630 in]







Termination Options

VS21 - VS31 - DP
VERTICAL PCB MOUNT
(NOT AVAILABLE w/K1 OR K2 ACTUATOR)

OPTION CODE	DIM "A"
VS21	11.68 [0.460 in]
VS31	16.00 [0.630 in]