SERIES 200 SWITCHES

TOGGLE SWITCHES - SUB MINIATURE



SPECIFICATIONS

Contact Rating:	Dependent upon contact material
Mechanical Life:	30,000 make-and-break cycles
Electrical Life:	6,000 make-and-break cycles at full load
Contact Resistance:	20 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:	-40°C to 85°C

MATERIALS

Case:	Diallyl Phthalate (DAP) or glass filled nylon (UL94-V0)
Toggle Handle:	Brass, chrome plated
Bushing:	Brass, nickel plated
Housing:	Stainless steel
Switch Support:	Brass, tin plated
Contacts / Terminals:	Silver or gold plated copper alloy

FEATURES & BENEFITS

- Variety of switching functions
- Sub-miniature
- Multiple actuator & bushing options

APPLICATIONS/MARKETS

- Telecommunications
- Instrumentation
- Networking
- Medical equipment

HOW TO ORDER

SERIES	MODEL NO.	ACTUATOR	BUSHING	TERMINATION	CONTACT MATERIAL	SEAL	HARDWARE
200						E	
	MSP1 MSP2 MSP3 MSP4 MSP5 MSP6* MDP1 MDP2 MDP3 MDP4 MDP5 MDP6	T1 T2 T3 T4 T5	B1 B2 B3 B4 B5 B6 B7 B8	M1 M2 M6 M7 VS2	Q = Silver R = Gold	E = Epoxy Sealed at Base of Terminal	H = Hardware

Example Ordering Number

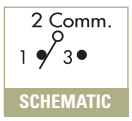
200–MSP1–T4–B5–M1–R–E–H

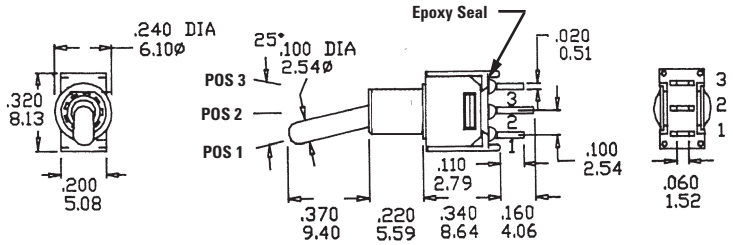
***MSP6 - not available with M1, M6 & M7 termination**

Specifications subject to change without notice.

SPDT







Model No.	POS 1	POS 2	POS 3
MSP-1	ON	NONE	ON
MSP-2	ON	NONE	(ON)
MSP-3	ON	OFF	ON
MSP-4	(ON)	OFF	(ON)
MSP-5	ON	OFF	(ON)
Term. Comm.	2 - 3	OPEN	2 - 1
MSP-6	OFF	NONE	ON
Term. Comm.	OPEN	NONE	3 -1

( ) = Momentary

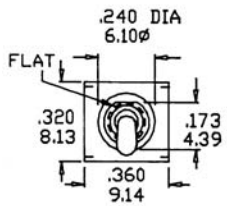
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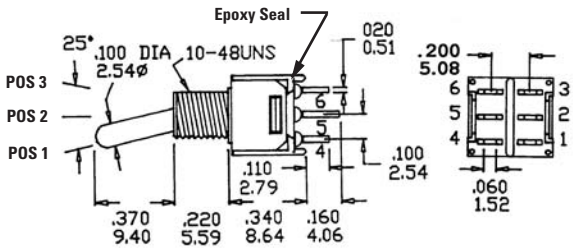
SERIES 200 SWITCHES

TOGGLE SWITCHES - SUB MINIATURE

DPDT

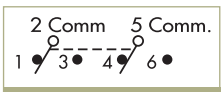






Model No.	POS 1	POS 2	POS 3
MDP-1	ON	NONE	ON
MDP-2	ON	NONE	(ON)
MDP-3	ON	OFF	ON
MDP-4	(ON)	OFF	(ON)
MDP-5	ON	OFF	(ON)
MDP-6	ON	ON	ON
Term. Comm.	2-3, 5-6	OPEN	2-1, 5-4

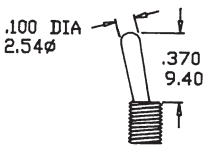
( ) = Momentary



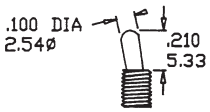
SCHEMATIC

ACTUATOR OPTIONS

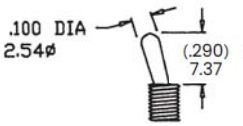
T1



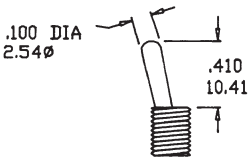
T2



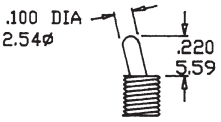
T3*



T4**



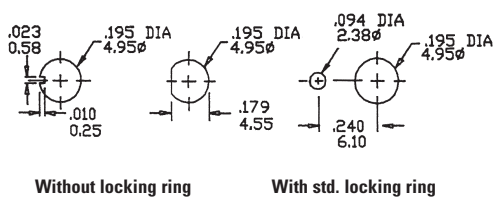
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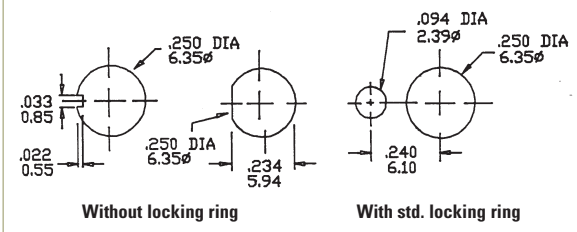
* Actuator shown with B1, B2, B3, or B4 bushing; subtract 0.09 (2.29) for B5, B6 bushing. Subtract 0.040 (1.02) for B7, B8 bushing.

** Actuator shown with B5, B6 bushing; add 0.09 (2.29) for B1, B2, B3, and B4 bushing. Add 0.50 (1.27) for B7, B8 bushing.

PANEL MOUNTING



10-48 BUSHING



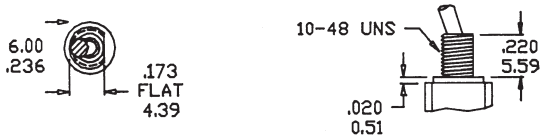
1/4 IN. BUSHING

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BUSHING OPTIONS

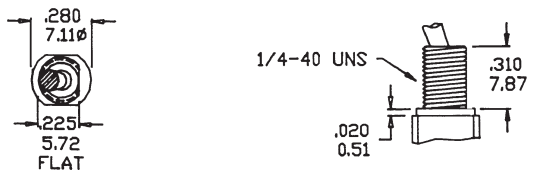
B1 THD

B2 NON-THD



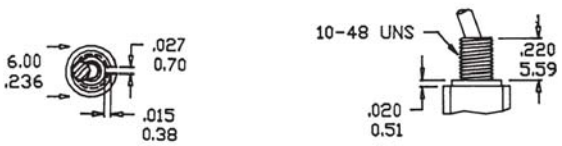
B5 THD

B6 NON-THD



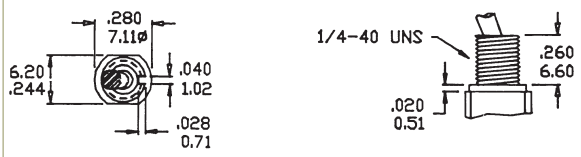
B3 THD

B4 NON-THD



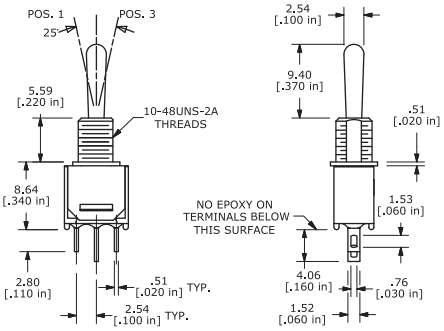
B7 THD

B8 NON-THD

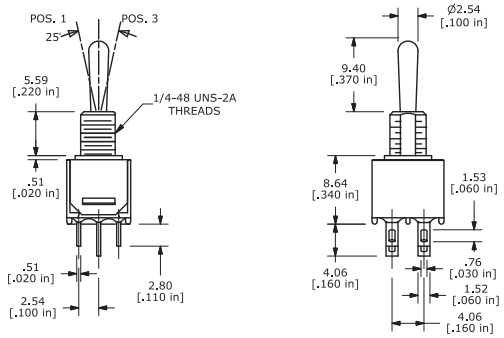


TERMINATION OPTIONS

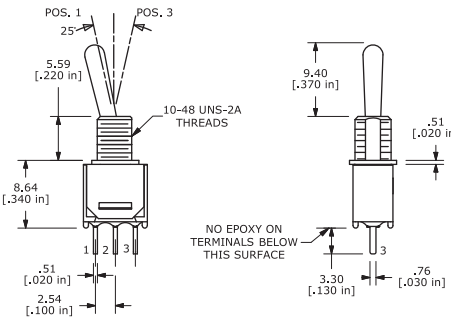
M1 SPDT



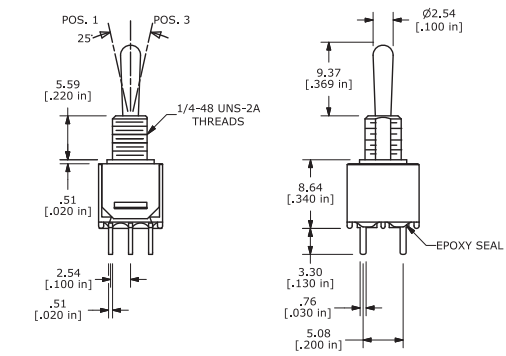
M1 DPDT



M2 SPDT



M2 DPDT



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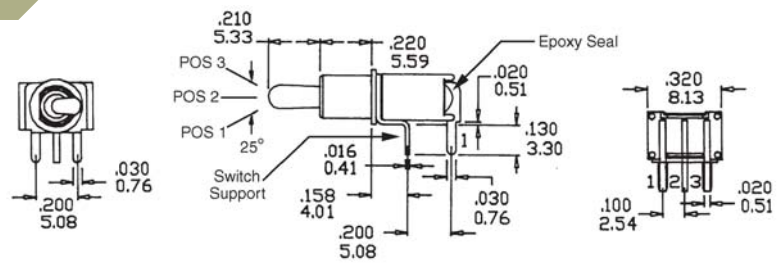
SERIES 200 SWITCHES

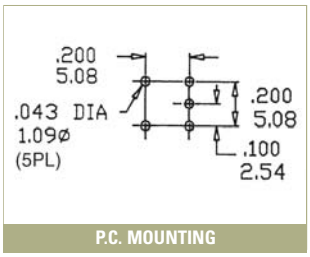
TOGGLE SWITCHES - SUB MINIATURE

M6

SPDT





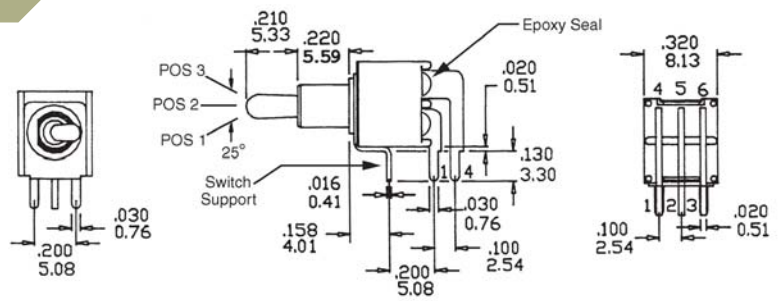


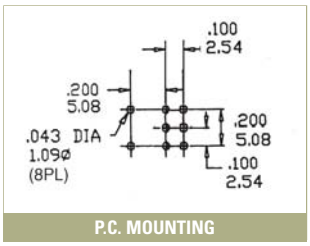
P.C. MOUNTING

M6

DPDT





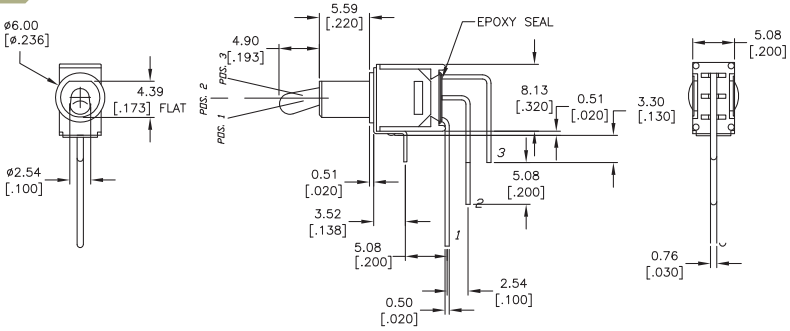


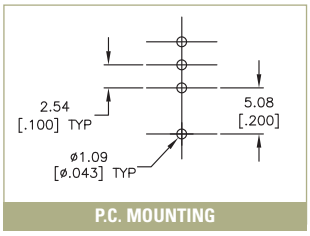
P.C. MOUNTING

M7

SPDT



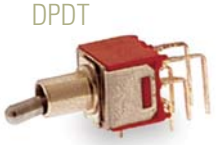


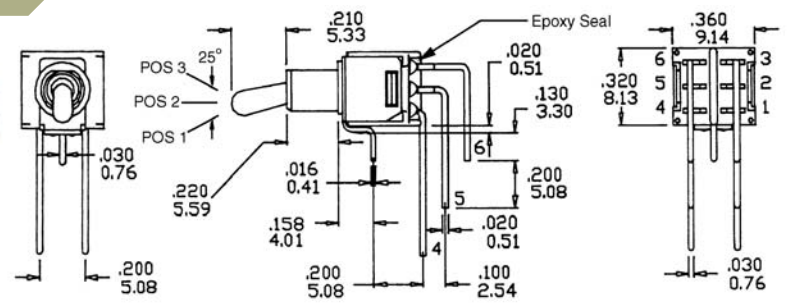


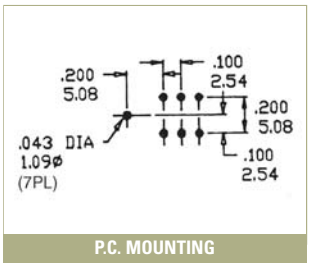
P.C. MOUNTING

M7

DPDT







P.C. MOUNTING

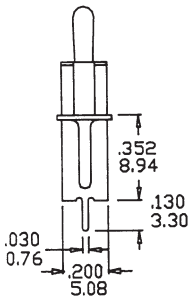
E·SWITCH®
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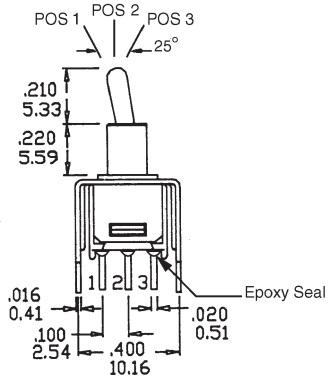
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Fax: 763-531-8235

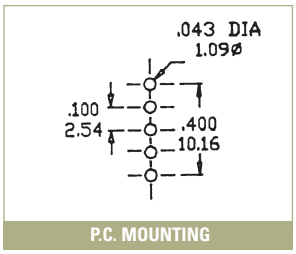
VS2

SPDT







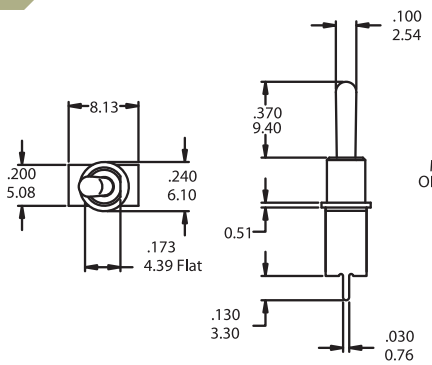


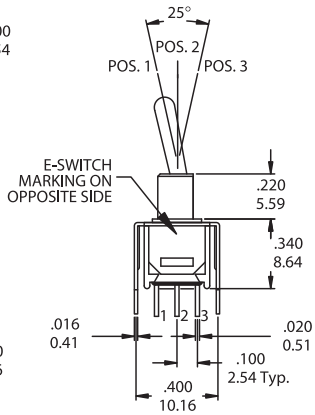
P.C. MOUNTING

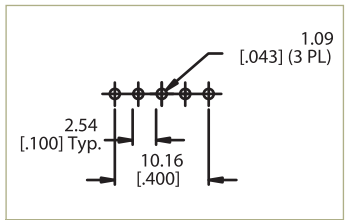
VS2

DPDT









P.C. MOUNTING

CONTACT MATERIAL OPTIONS

Q

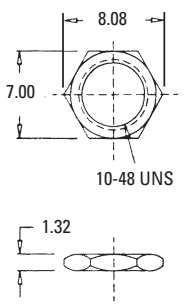
Fixed Terminal:	Silver plated copper alloy
Moving Contact:	Silver plated copper alloy
Rating:	3 Amps @ 120 VAC or 28 VDC; 1 Amp @ 250 VAC

R

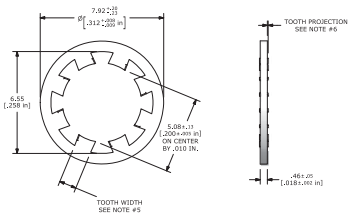
Fixed Terminal:	Copper alloy with gold plate over nickel plate
Moving Contact:	Copper alloy with gold plate over nickel plate
Rating:	0.4 VA max. @ 20 VAC or DC max.

HARDWARE

HDW21 NUT



HDW22 LOCK WASHER



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