

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

SERIES 400 SWITCHES

ROCKER SWITCHES - SUB-MINIATURE



FEATURES & BENEFITS

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

APPLICATIONS/MARKETS

- Telecommunications
- Instrumentation
- Test equipment
- Networking
- Computer peripherals

SPECIFICATIONS

Contact Rating:	See contact material options
Life Expectancy:	30,000 make-and-break cycles at full load
Contact Resistance:	20 mΩ max. typical initial @ 2-4 VDC 100 mA for 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) or glass filled nylon, flame retardant, heat stabilized (UL 94-V0)
Rocker:	Nylon
Bushing:	Brass, nickel plated
Housing:	Stainless steel
Terminal/Switch Support:	Brass, or steel tin plated
Contacts / Terminals:	Silver or gold plated copper alloy



HOW TO ORDER

SERIES 400	MODEL NO.	ACTUATOR	ACTUATOR COLOR	TERMINATION	CONTACT MATERIAL	SEAL E
	MSP1 MSP2 MSP3 MSP4 MSP5 MSP6*** MDP1 MDP2 MDP3	R1* R6**	BLK =Black WHT=White RED =Red	M1 M2 M6 M61 M7 M71 VS2 VS21	Q = Silver R = Gold	E = Epoxy Sealed at Base of Terminal



Example Ordering Number

400-MSP1-R6-BLK-M6-R-E

* Std. all models except SPDT with M6 + M61 terminations.

** Std. on SPDT models with M6 + M61 terminations.

*** Not available with M6 terminations.

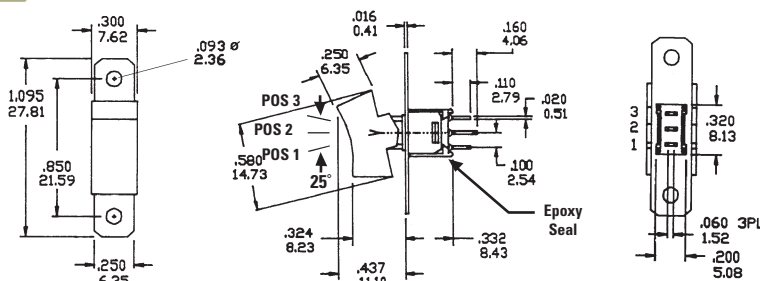
Specifications subject to change without notice.

SPDT



2 Comm.
1 3

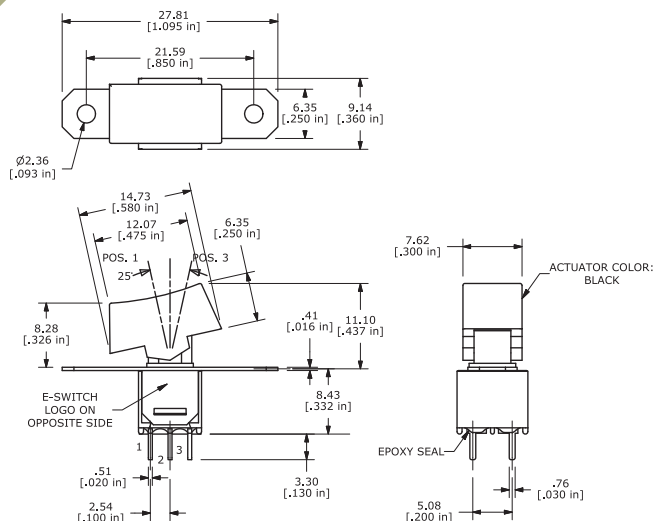
SCHEMATIC



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)
MSP-6	OFF	NONE	ON
Term. Comm.	2-3	OPEN	2-1

() = Momentary

The schematic shows a robot arm with a base and two main sections. The base has a revolute joint (indicated by a circle with a dot) and a prismatic joint (indicated by a line with a dot). The first section has a revolute joint and a prismatic joint. The second section has a revolute joint and a prismatic joint. The end effector is a gripper. The joints are labeled 1, 2, 3, 4, 5, and 6. Joints 1 and 2 are revolute, while joints 3, 4, 5, and 6 are prismatic.



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

() = Momentary

ACTUATOR OPTIONS

Std. all models except SPDT with M6 terminations.

Std. on SPDT models with M6 terminations.

TERMINATION OPTIONS

A black rotary switch with a metal base and three gold pins. The switch has a black knob on top and a metal plate with two screws. The base is red and has three gold pins at the bottom. The switch is labeled "1000" and "1000" on the side.

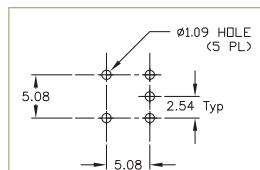
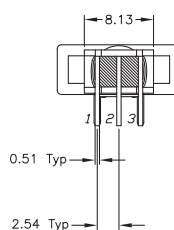
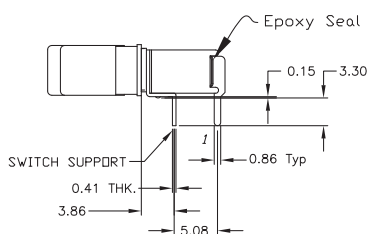
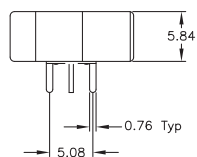
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ROCKER SWITCHES - SUB-MINIATURE

M6

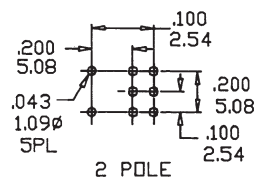
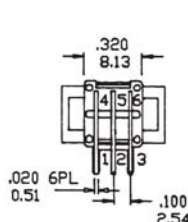
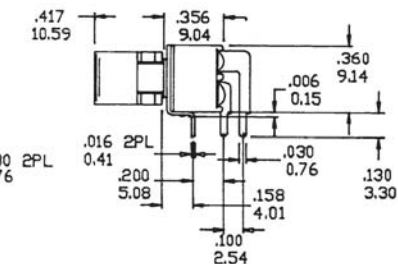
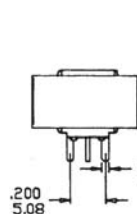
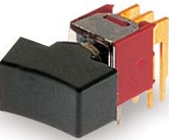
SPDT



P.C. MOUNTING

M6

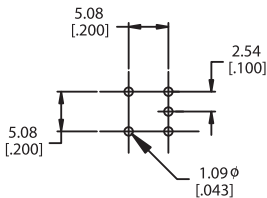
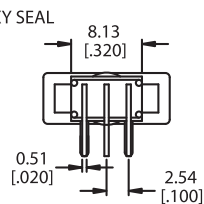
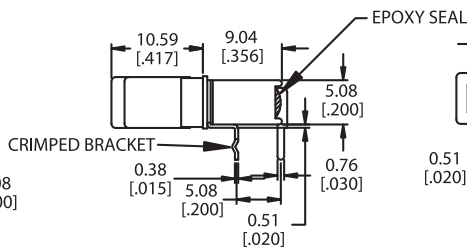
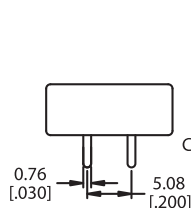
DPDT



P.C. MOUNTING

M61

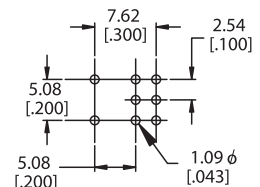
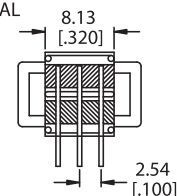
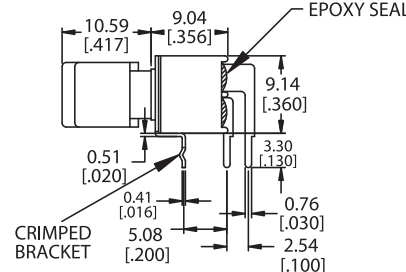
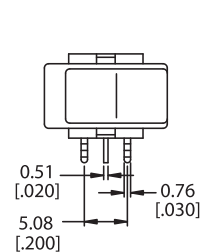
SPDT



P.C. MOUNTING

M61

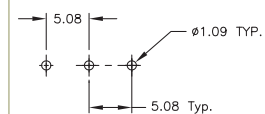
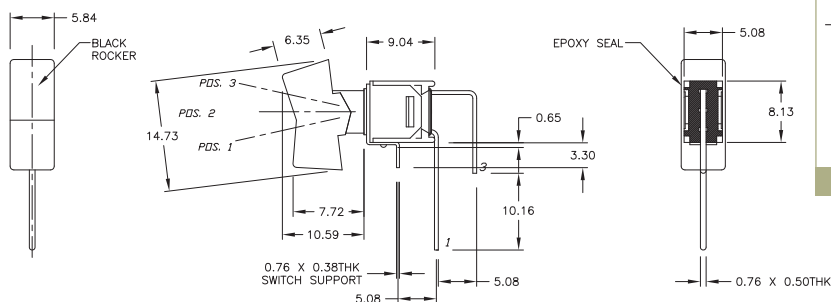
DPDT



P.C. MOUNTING

**M7**

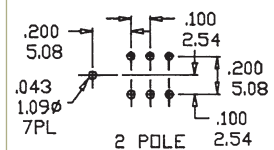
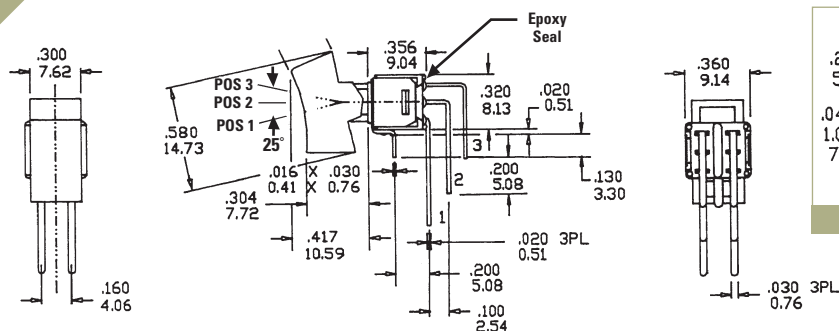
SPDT



P.C. MOUNTING

M7

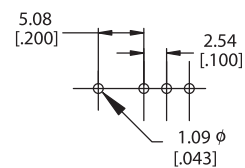
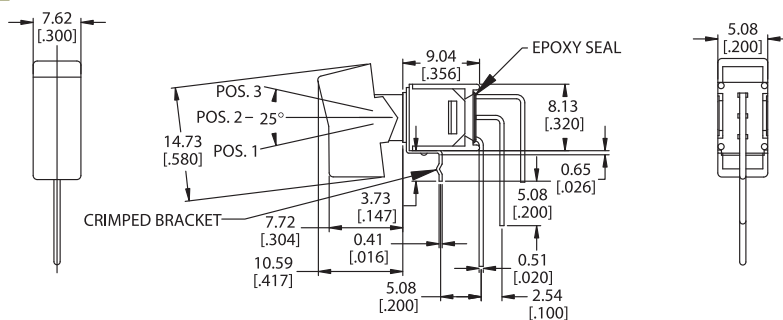
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P.C. MOUNTING

M71

SPDT



P.C. MOUNTING

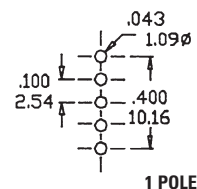
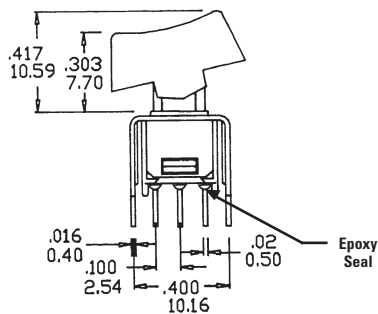
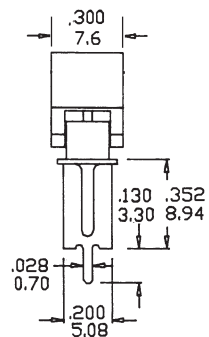
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ROCKER SWITCHES - SUB-MINIATURE

VS2

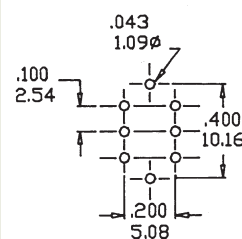
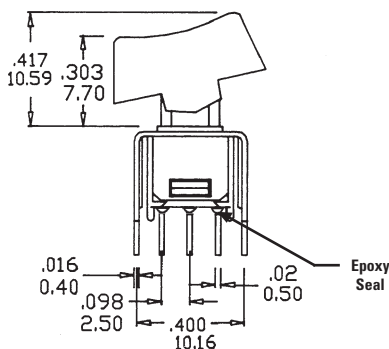
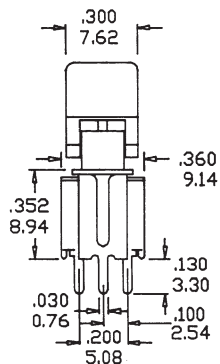
SPDT



P.C. MOUNTING

VS2

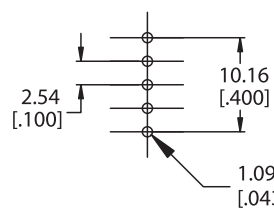
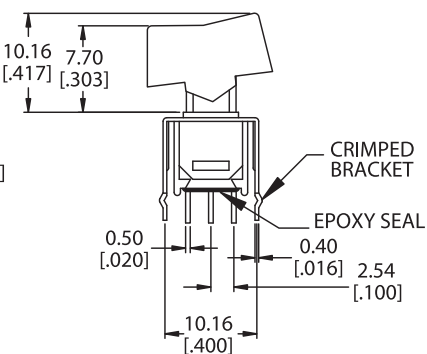
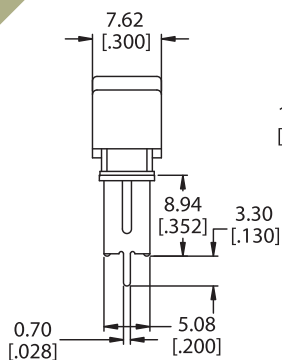
DPDT



P.C. MOUNTING

VS21

SPDT



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 @ 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 VA max. @ 20 VAC or DC max.