

## Features/Benefits

- Multi-pole and multi-positions
- Panel and PCB mounting
- Stainless steel actuator
- Non-shorting contacts
- RoHS Compliant

### Typical Applications

- Test equipment
- Industrial equipment
- Medical equipment

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#### Specifications

#### Materials

- CONTACT RATING: Q contact material: Carry-6 AMPS continuous. Switch-250 mA max. @ 125 V AC or 28 DC. Non-shorting contacts standard. See page L-16 for additional ratings.
  ELECTRICAL LIFE: 10,000 make-and-break cycles at 150 mA, 125 V AC or 28 DC.
- CONTACT RESISTANCE: Below 20 mΩ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE:  $10^{10}\,\Omega$  min.

DIELECTRIC STRENGTH: 600 Vrms min. @ sea level.

OPERATING & STORAGE TEMPERATURE: -30°C to 85°C.

OPERATING TORQUE: 4-7 ounces-inches typ. initial.

SOLDERABILITY: Per MIL-STD-202F method 208D, or

EIA RS-186E method 9 (1 hour steam aging).

NOTE: Specifications and materials listed above are for switches with standard options For information on specific and custom switches, consult Customer Service Center. HOUSING AND BUSHING: Zinc alloy, bright zinc plated, with clear chromate finish.

ACTUATOR: Zinc alloy, nickel plated or stainless steel.

BASE: Diallylphthalate (DAP) or melamine phenolic, with insert molded terminals.

ROTOR: Glass filled polyester (UL 94V-0).

MOVABLE CONTACTS:

- Non-shorting: Q contact material: Copper alloy, silver plated. See page L-16 for additional contact materials.
- STATIONARY CONTACT & ALL TERMINALS: Q contact material: Copper alloy, silver plated. All terminals insert molded. All terminals present regardless of number of switch positions. See page L-16 for additional contact materials.

CONTACT SPRING: Music wire, phosphate coated.

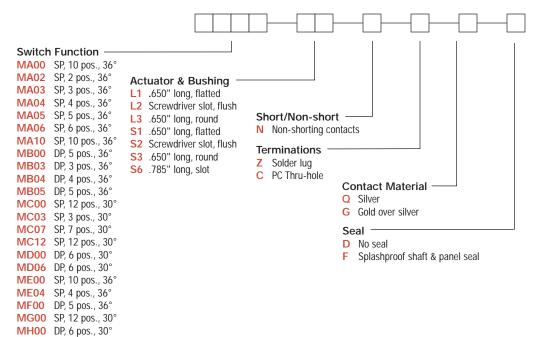
STOP PIN: Stainless steel.

STOP RING: Brass.

HARDWARE: Nut: Brass, nickel plated; Lockwasher: Steel, nickel plated.

#### **Build-A-Switch**

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages L-14 thru L-18. For additional options not shown in catalog, consult Customer Service Center.



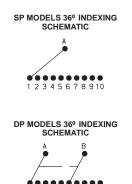


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# M Series Half-inch Rotary Switches

36° INDEXING					
NO. POLES	MODEL NO. WITH STOP PINS	MODEL NO. WITH STOP RINGS	SWITCH FUNCTION		
	MA00 ME00		10 Positions No Stops		
SP	MA02	—	2 Positions		
	MA03	—	3 Positions		
	MA04	ME04	4 Positions		
	MA05	_	5 Positions		
	MA06	—	6 Positions		
	MA10	—	10 Positions		
DP	MB00	MF00	5 Positions No Stops		
	MB03		3 Positions		
	MB04	—	4 Positions		
	MB05	_	5 Positions		

## SWITCH FUNCTION



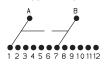
30° INDEXING						
NO. POLES	MODEL NO. WITH STOP PINS	MODEL NO. WITH STOP RINGS	SWITCH FUNCTION			
	MC00	MG00	12 Positions No Stops			
SP	MC03 –		3 Positions			
	MC07	—	7 Positions			
	MC12	_	12 Positions			
DP	MD00	MH00 —	6 Positions No Stops			
	MD06		6 Positions			

SP MODELS 30° INDEXING SCHEMATIC

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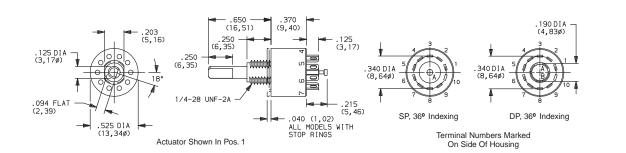


DP MODELS 30° INDEXING SCHEMATIC

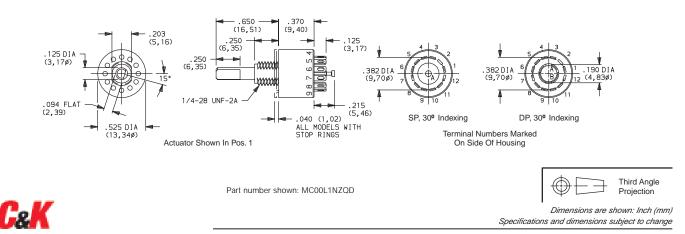


All models R ( with all options when ordered with S1-SB stainless steel actuator options.

NOTE: Number of positions or stops preset at factory (NOTE: MX00 models have full 360 rotation with no stops. Stop pins or stop rings supplied for user-selectable stops, see above). All terminals present regardless of number of switch positions. Hardware is available separately, see section "Technical Data and Additional Hardware".



Part number shown: MA00L1NZQD

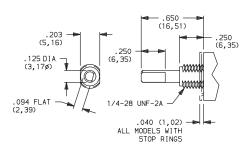


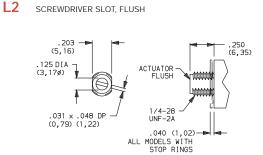
## M Series Half-inch Rotary Switches

## ACTUATOR (ZINC ALLOY)

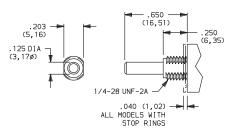
L1 .650" LONG, FLATTED







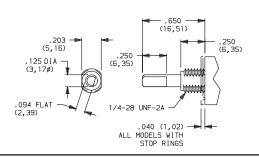
L3 .650" LONG, ROUND



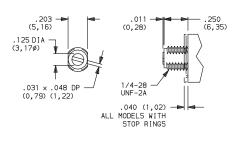
All actuators shown in pos. 1

## ACTUATOR (STAINLESS STEEL)

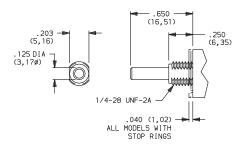
S1 .650" LONG, FLATTED



S2 SCREWDRIVER SLOT, FLUSH



S3 .650" LONG, ROUND



56 .785" LONG, SLOT

.203 (5, 16) .125 DIA (3, 17ø) .031 x .048 DP (0, 79) (1, 22) .040 (1, 02) ALL MODELS WITH STOP RINGS

Dimensions are shown: Inch (mm)



Specifications and dimensions subject to change

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All actuators shown in pos. 1 All models UL/CSA when ordered with stainless steel actuators.

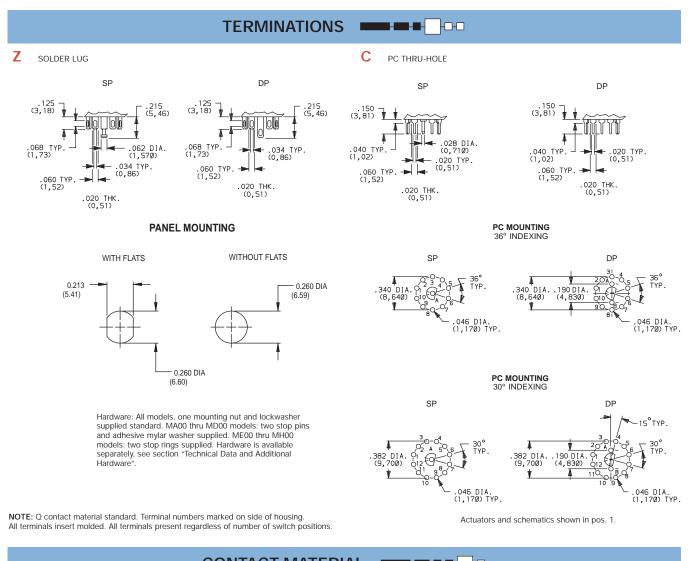
# **M** Series Half-inch Rotary Switches

## SHORTING/NON-SHORTING CONTACTS

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Ν NON-SHORTING CONTACTS

Break-before-make



#### CONTACT MATERIAL $\vdash$

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATING	
Q	SILVER <sup>1, 2</sup>	SILVER <sup>2</sup>	POWER	CARRY: 6 AMPS CONTINUOUS. SWITCH: 250 mA @ 125 V AC or 28 V DC.
G	GOLD OVER SILVER <sup>3, 4</sup>	GOLD <sup>4</sup>	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 VA MAX. @ 20 V AC or DC MAX. or, CARRY: 6 AMPS CONTINUOUS. SWITCH: 250 mA @ 125 V AC or 28 V DC.

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications

<sup>1</sup> MOVABLE CONTACTS: Non-shorting: Copper alloy, silver plated.

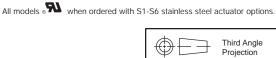
- Shorting: Zinc alloy, silver plated.
- <sup>2</sup> STATIONARY CONTACTS & ALL TERMINALS: Copper alloy, silver plated.
- <sup>3</sup> MOVABLE CONTACTS: Non-shorting: Copper alloy, with gold plate over nickel plate, over silver plate. Shorting: Zinc alloy, with gold plate

<sup>4</sup> STATIONARY CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate over silver plate



Rotary

NOTE: Any models supplied with Q, G contact material are RoHS compliant.



Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

