CRUS Models Available

## Features/Benefits

- Multi-pole and multi-positions
- Panel and PCB mounting
- Stainless steel actuator
- Non-shorting contacts
- RoHS Compliant
- IP67 (F option only)

## Specifications

### Materials

Typical Applications

Industrial equipment

Medical equipment

Test equipment

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- 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 K-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 m $\Omega$  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:

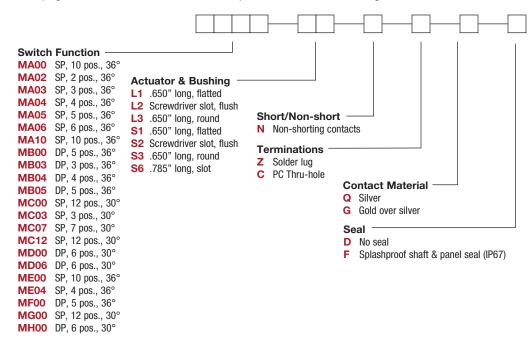
- Non-shorting: Q contact material: Copper alloy, silver plated. See page K-16 for additional contact materials.
- STATIONARY CONTACT & ALL TERMINALS: Q contact material: Copper alloy, silver plated. All terminals insert molded. All terminals present regardless of number of switch positions. See page K-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 K-14 thru K-17. For additional options not shown in catalog, consult Customer Service Center.



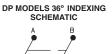


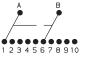
Rotan

SWITCH	FUNCTION			

36° INDEXING							
NO. POLES	MODEL NO. WITH STOP PINS	MODEL NO. WITH STOP RINGS	SWITCH FUNCTION				
SP	MA00	ME00	10 Positions No Stops				
	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				

SP MODELS 36° INDEXING SCHEMATIC 12345678910





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

SP MODELS 30° INDEXING SCHEMATIC



DP MODELS 30° INDEXING SCHEMATIC

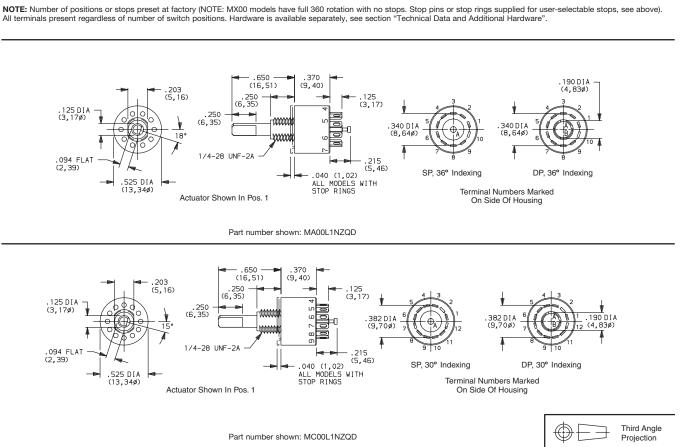
6789101112

123

cRus with all options when ordered with S1-S6 stainless steel actuator options.

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All models





Dimensions are shown: Inch (mm) Specifications and dimensions subject to change www.ckswitches.com

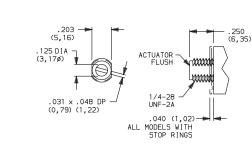
#### 

.650" LONG, FLATTED

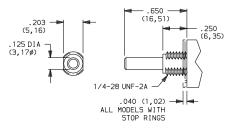
.203 (5,16)

.125 DIA (3,17ø)

.094 FLAT (2,39) L2 SCREWDRIVER SLOT, FLUSH



L3 .650" LONG, ROUND



- .650 -(16,51)

Lannah

.250 (6,35)

1/4-28 UNF-2A

.040 (1,02) -ALL MODELS WITH STOP RINGS .250 (6,35)

All actuators shown in pos. 1

# **ACTUATOR (STAINLESS STEEL)**

## 

.011 (0,28)

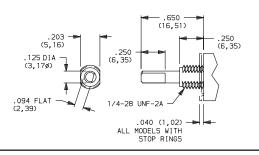
1/4-28 UNF-2A

.040 (1,02) ALL MODELS WITH STOP RINGS .250 (6,35)

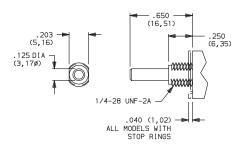
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1000000

S1 .650" LONG, FLATTED



**S3** .650" LONG, ROUND



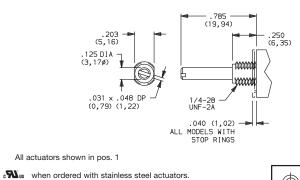
**S6** .785" LONG, SLOT

.031 × .048 DP (0,79) (1,22)

.203 (5,16)

.125 DIA (3,17ø)

S2 SCREWDRIVER SLOT, FLUSH



Third Angle Projection



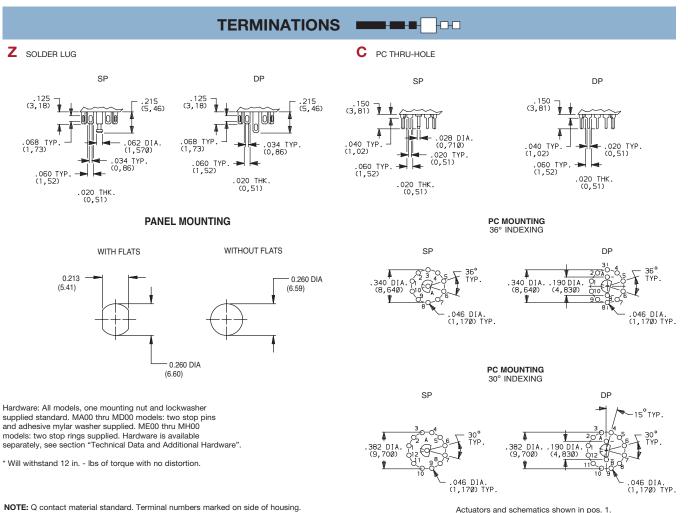
All models

K Rotary

#### SHORTING/NON-SHORTING CONTACTS -0-0-0

#### N NON-SHORTING CONTACTS

Break-before-make



Actuators and schematics shown in pos. 1.

#### **CONTACT MATERIAL** -

OPT CC		CONTACT MATERIAL	TERMINAL PLATING	RATING		
C	ג	SILVER 1, 2	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.

<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.

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

All terminals insert molded. All terminals present regardless of number of switch positions.

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

All models c Nus when ordered with S1-S6 stainless steel actuator options.





Rotary

Specifications and dimensions subject to change

Dimensions are shown: Inch (mm)





### **Setting Stops With Stop Pins**

#### MA00, MB00, MC00 & MD00 Models Only:

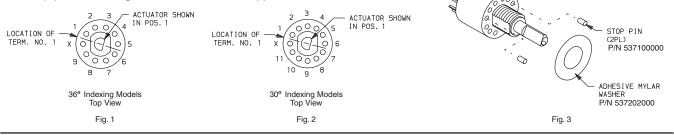
The number of switch positions or stops are adjustable by means of stop pins provided with each switch. Switches are normally shipped with stop pins and hardware in bulk, not installed. Without stop pins, switches have full 360° rotation and no stops. Note that all two pole models begin to repeat when actuated 180° or more.

To set stops, refer to figures 1 & 2. Orient switch so that terminal no. 1 is as shown. Turn actuator to position 1, using flats on bushing and terminal no. 1 as reference. Install CCW stop pin in hole designated 'X'. Install second stop pin in hole number corresponding to the number of positions desired. Note that two pole models will begin to repeat when actuated 180° or more. To retain stop pins, use adhesive mylar washer included; see figure 3.

All models except MX00 models have number of switch positions or stops pre-set at factory and are not adjustable.

#### Hardware:

Two stop pins, mounting nut, and lockwasher supplied standard.



### Setting Stops With Stop Rings

#### ME00, MF00, MG00 & MH00 Models Only:

The number of switch positions or stops are adjustable by means of stop rings provided with each switch. These models are normally shipped with stop rings and hardware in bulk, not installed. Without stop rings, switches have full 360° rotation and no stops. Note that all two pole models begin to repeat when actuated 180° or more.

To set stops refer to figures 4 & 5. Orient switch so that terminal no. 1 is as shown. Turn actuator to pos. 1 using flats on bushing

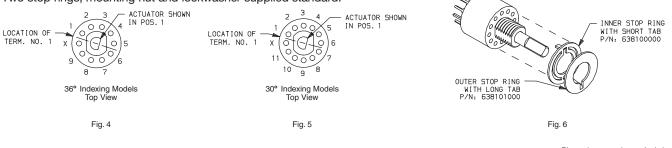
and terminal no. 1 as reference. See figure 6 and install inner stop ring with short tab in hole designated 'X'. <u>Install outer</u> stop ring with long tab in hole number corresponding to the number of positions desired. Note that all two pole models begin to repeat when actuated 180° or more. Use mounting nut and lockwasher to retain stop rings.

### All MEXX, MFXX, MGXX & MHXX Models (Except MX00 models):

Number of switch positions or stops are preset at factory, but are user adjustable.

#### Hardware:

Two stop rings, mounting nut and lockwasher supplied standard.





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