

## Features/Benefits

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

## Typical Applications

- Test equipment
- Industrial equipment
- Medical equipment



**C&K** 

Models Available

## Specifications

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 mΩ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10<sup>10</sup> Ω 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.

## Materials

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.



### Switch Function

**MA00** SP, 10 pos., 36°

**MA02** SP, 2 pos., 36°

**MA03** SP, 3 pos., 36°

**MA04** SP, 4 pos., 36°

**MA05** SP, 5 pos., 36°

**MA06** SP, 6 pos., 36°

**MA10** SP, 10 pos., 36°

**MB00** DP, 5 pos., 36°

**MB03** DP, 3 pos., 36°

**MB04** DP, 4 pos., 36°

**MB05** DP, 5 pos., 36°

**MC00** SP, 12 pos., 30°

**MC03** SP, 3 pos., 30°

**MC07** SP, 7 pos., 30°

**MC12** SP, 12 pos., 30°

**MD00** DP, 6 pos., 30°

**MD06** DP, 6 pos., 30°

**ME00** SP, 10 pos., 36°

**ME04** SP, 4 pos., 36°

**MF00** DP, 5 pos., 36°

**MG00** SP, 12 pos., 30°

**MH00** DP, 6 pos., 30°

### Actuator & Bushing

**L1** .650" long, flattened

**L2** Screwdriver slot, flush

**L3** .650" long, round

**S1** .650" long, flattened

**S2** Screwdriver slot, flush

**S3** .650" long, round

**S6** .785" long, slot

### Short/Non-short

**N** Non-shorting contacts

### Terminations

**Z** Solder lug

**C** PC Thru-hole

### Contact Material

**Q** Silver

**G** Gold over silver

### Seal

**D** No seal

**F** Splashproof shaft & panel seal (IP67)



**K**

**Rotary**

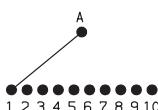
# M Series Half-inch Rotary Switches

## SWITCH FUNCTION

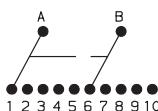


36° INDEXING			
NO. POLES	MODEL NO. WITH STOP PINS	MODEL NO. WITH STOP RINGS	SWITCH FUNCTION
SP	<b>MA00</b>	<b>ME00</b>	10 Positions No Stops
	<b>MA02</b>	—	2 Positions
	<b>MA03</b>	—	3 Positions
	<b>MA04</b>	<b>ME04</b>	4 Positions
	<b>MA05</b>	—	5 Positions
	<b>MA06</b>	—	6 Positions
	<b>MA10</b>	—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

### SP MODELS 36° INDEXING SCHEMATIC



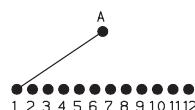
### DP MODELS 36° INDEXING SCHEMATIC



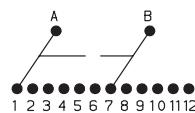
### 30° INDEXING

NO. POLES	MODEL NO. WITH STOP PINS	MODEL NO. WITH STOP RINGS	SWITCH FUNCTION
SP	<b>MC00</b>	<b>MG00</b>	12 Positions No Stops
	<b>MC03</b>	—	3 Positions
	<b>MC07</b>	—	7 Positions
	<b>MC12</b>	—	12 Positions
DP	<b>MD00</b>	<b>MH00</b>	6 Positions No Stops
	<b>MD06</b>	—	6 Positions

### SP MODELS 30° INDEXING SCHEMATIC

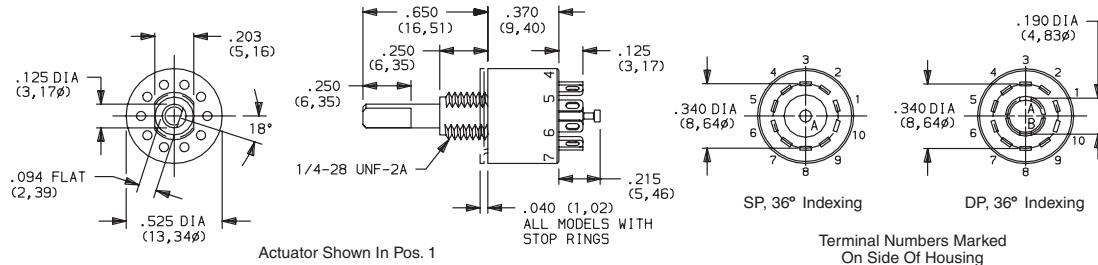


### DP MODELS 30° INDEXING SCHEMATIC

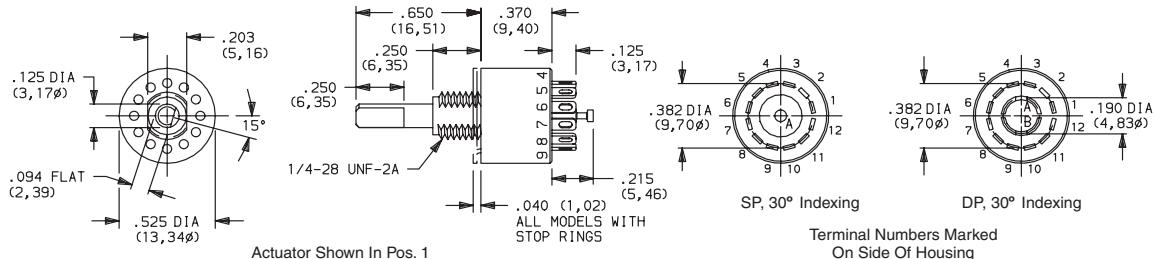


All models  with all options when ordered with S1-S6 stainless steel actuator options.

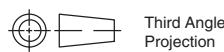
**NOTE:** Number of positions or stops preset at factory (NOTE: MX00 models have full 360 rotation with no stops. Stop pins or stop rings supplied for user-selectable stops, see above). All terminals present regardless of number of switch positions. Hardware is available separately, see section "Technical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



Part number shown: MA00L1NZQD



Part number shown: MC00L1NZQD



Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change

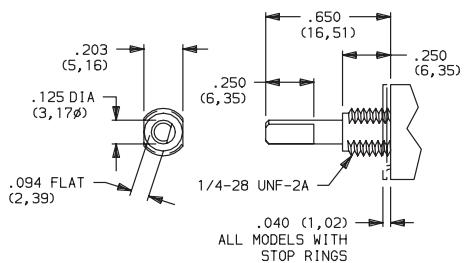
[www.ckswitches.com](http://www.ckswitches.com)

# M Series Half-inch Rotary Switches

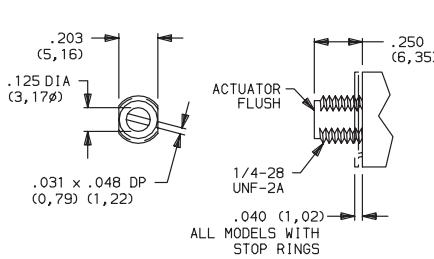
## ACTUATOR (ZINC ALLOY)



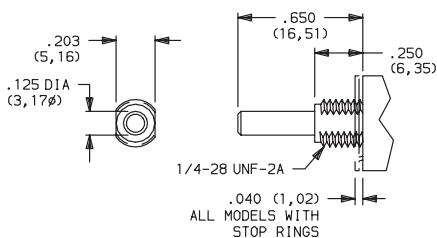
**L1** .650" LONG, FLATTED



**L2** SCREWDRIVER SLOT, FLUSH

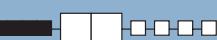


**L3** .650" LONG, ROUND

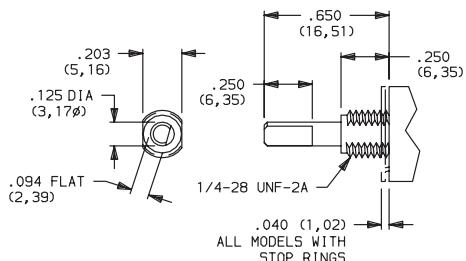


All actuators shown in pos. 1

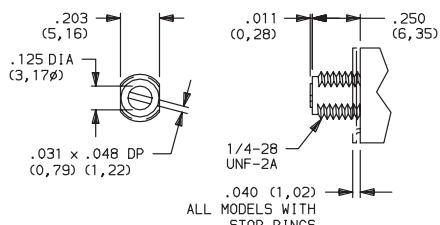
## ACTUATOR (STAINLESS STEEL)



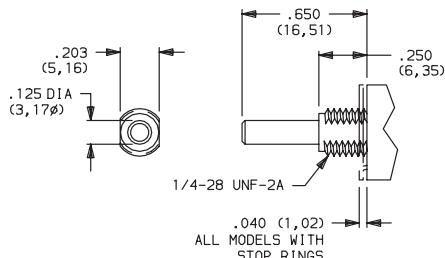
**S1** .650" LONG, FLATTED



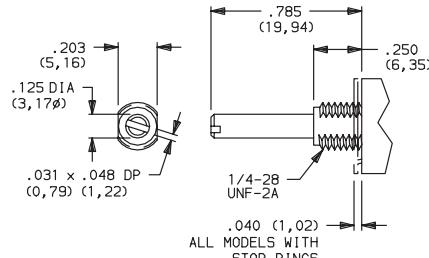
**S2** SCREWDRIVER SLOT, FLUSH



**S3** .650" LONG, ROUND

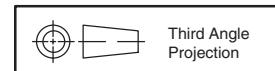


**S6** .785" LONG, SLOT



All actuators shown in pos. 1

All models when ordered with stainless steel actuators.



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



K

Rotary

# M Series Half-inch Rotary Switches

## SHORTING/NON-SHORTING CONTACTS

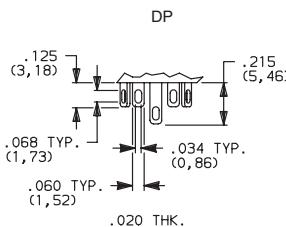
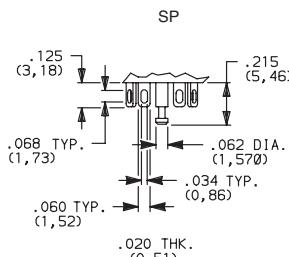


### N NON-SHORTING CONTACTS

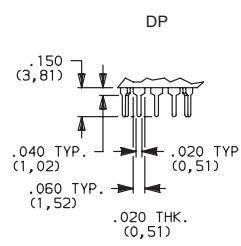
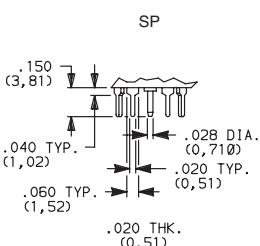
Break-before-make

## TERMINATIONS

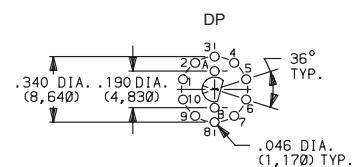
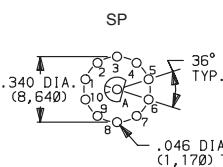
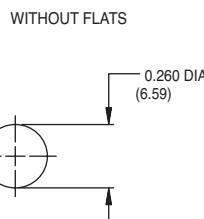
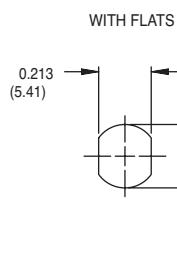
### Z SOLDER LUG



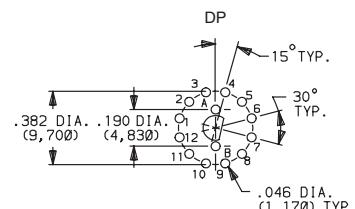
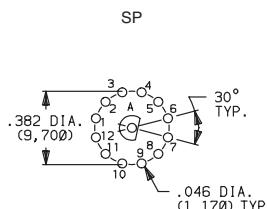
### C PC THRU-HOLE



## PANEL MOUNTING



## PC MOUNTING 30° INDEXING



SP

DP

**K**  
Hardware: All models, one mounting nut and lockwasher supplied standard. MA00 thru MD00 models: two stop pins and adhesive mylar washer supplied. ME00 thru MH00 models: two stop rings supplied. Hardware is available separately, see section "Technical Data and Additional Hardware".

\* Will withstand 12 in. - lbs of torque with no distortion.

**NOTE:** Q contact material standard. Terminal numbers marked on side of housing. All terminals insert molded. All terminals present regardless of number of switch positions.

Actuators and schematics shown in pos. 1.

## CONTACT MATERIAL



OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATING	
<b>Q</b>	SILVER <sup>1,2</sup>	SILVER <sup>2</sup>	POWER	CARRY: 6 AMPS CONTINUOUS. SWITCH: 250 mA @ 125 V AC or 28 V DC.
<b>G</b>	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> MOBILE CONTACTS: Non-shorting: Copper alloy, silver plated.

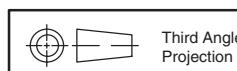
**NOTE:** Any models supplied with Q, G contact material are RoHS compliant.

<sup>2</sup> STATIONARY CONTACTS & ALL TERMINALS: Copper alloy, silver plated.

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

<sup>3</sup> MOBILE 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.



Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change





**Стандарт  
Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

**Наши контакты:**

**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литер Н,  
помещение 100-Н Офис 331