

## Rotary

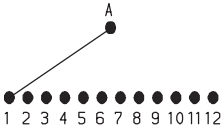
# A Series

## 1-4 Pole Rotary Switches

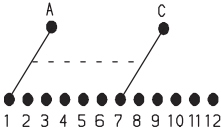
### SWITCH FUNCTION

| 30° INDEXING |           |                      |                    |
|--------------|-----------|----------------------|--------------------|
| NO. POLES    | MODEL NO. | SWITCH FUNCTION      | TERMINALS          |
| SP           | A100      | 12 Position No Stops | A,1-12             |
|              | A102      | SPDT                 | A,1,2*             |
|              | A103      | 3 Position           | A,1-3*             |
|              | A104      | 4 Position           | A,1-4*             |
|              | A105      | 5 Position           | A,1-5*             |
|              | A106      | 6 Position           | A,1-6*             |
|              | A107      | 7 Position           | A,1-7              |
|              | A108      | 8 Position           | A,1-8              |
|              | A109      | 9 Position           | A,1-9              |
|              | A110      | 10 Position          | A,1-10             |
|              | A112      | 12 Position          | A,1-12             |
| DP           | A203      | 3 Position           | A,C,1-3,7-9        |
|              | A204      | 4 Position           | A,C,1-4,7-10       |
|              | A205      | 5 Position           | A,C,1-5,7-11       |
|              | A206      | 6 Position           | A,C,1-12           |
| 3P           | A303      | 3 Position           | A,B,C,1-3,5-7 9-11 |
|              | A304      | 4 Position           | A,B,C,1-12         |

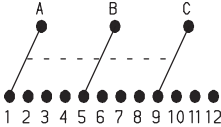
SP MODELS SCHEMATIC



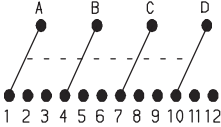
DP MODELS SCHEMATIC



3P MODELS SCHEMATIC



4P MODELS SCHEMATIC

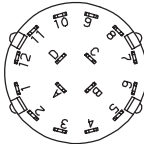


| 30° INDEXING |           |                 |                            |
|--------------|-----------|-----------------|----------------------------|
| NO. POLES    | MODEL NO. | SWITCH FUNCTION | TERMINALS                  |
| 4P           | A402      | 4PDT            | A,B,C,D,1,2,4,5,7, 8,10,11 |
|              | A403      | 3 Position      | All Terminals              |

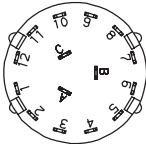
| 45° INDEXING |           |                 |                     |
|--------------|-----------|-----------------|---------------------|
| NO. POLES    | MODEL NO. | SWITCH FUNCTION | TERMINALS           |
| SP           | A115      | 3 Position      | A,1,2,4*            |
|              | A125      | 8 Position      | A,1,2,4,5,7,8,10,11 |

| 90° INDEXING |           |                 |              |
|--------------|-----------|-----------------|--------------|
| NO. POLES    | MODEL NO. | SWITCH FUNCTION | TERMINALS    |
| SP           | A114      | 2 Position      | A,1,4*       |
|              | A124      | 4 Position      | A,1,4,7,10   |
| DP           | A214      | 2 Position      | A,C,1,4,7,10 |

### TERMINAL NUMBERS



Terminal numbers molded on bottom of housing.

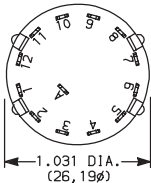
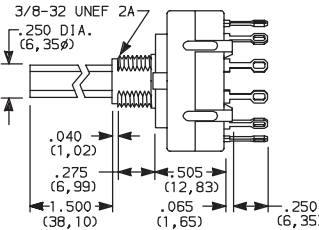
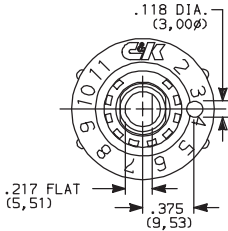


3P MODELS

4P MODELS  
SP MODELS (omit terminals B, C & D)  
DP MODELS (omit terminals B & D)

**NOTE:** \* These models with 'C' or 'MC' terminations have additional terminal no. 9 as switch support only. This terminal is not connected electrically inside switch.

All models **C&K** with all options when ordered with 'G' or 'Q' contact material, see page K-6.



Third Angle Projection

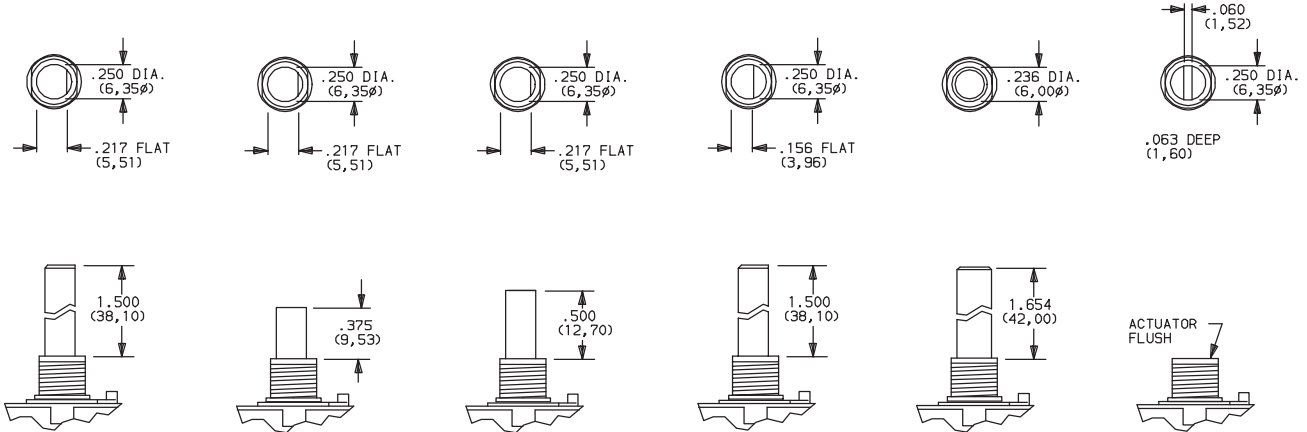
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



# A Series 1-4 Pole Rotary Switches

## ACTUATOR

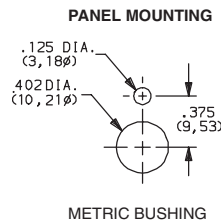
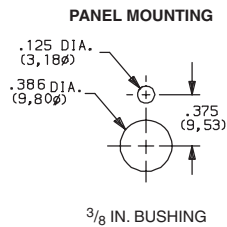
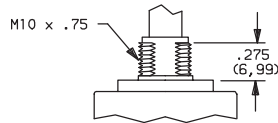
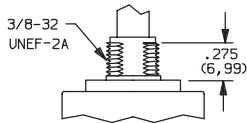
**15** 1.500" HIGH    **03** .375" HIGH    **05** .500" HIGH    **14** 1.500" HIGH    **42** 1.654" METRIC    **S1** SCREWDRIVER SLOT



NOTE: Actuators shown in position 1, fully CCW.

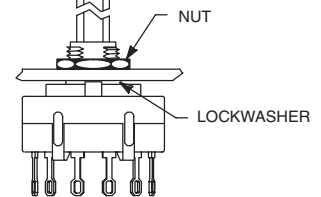
## MOUNTING STYLE

**R** 3/8-32 THREAD    **M** M10 x .75 METRIC



### TYPICAL INSTALLATION

Maximum force to push on knob should not exceed 10 in./lbs.



Install switch with stop ring (if used) and lockwasher in back of panel. Tighten hex nut from front of panel.

On PC mounted switches, use hex nut and lockwasher to hold stop ring in place.

Actuation torque: 8-16 oz./in.  
Maximum torque: 30 oz./in.

## SHORTING/NON-SHORTING CONTACTS

**N** NON-SHORTING CONTACTS (break-before-make)  
**S** SHORTING CONTACTS (make-before-break)

NOTE: 'S' shorting contacts are not available with A114, A124 and A214 models.



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

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K

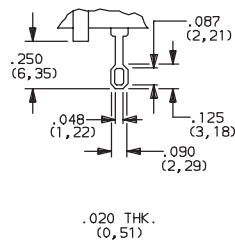
Rotary

# A Series

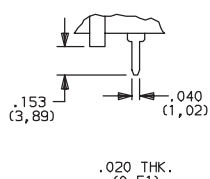
## 1-4 Pole Rotary Switches

### TERMINATIONS

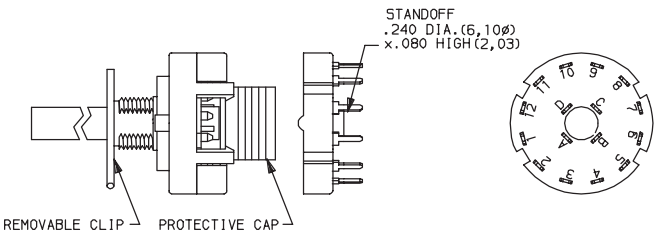
#### Z SOLDER LUG



#### C PC THRU-HOLE

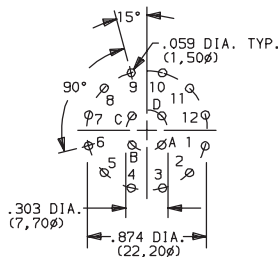


#### MC MODULAR BASE (for wave soldering)

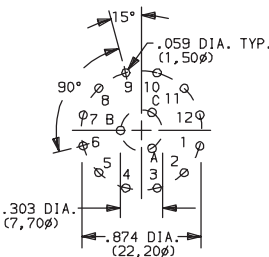


**NOTE:** Switches with 'C' or 'MC' terminations have additional terminal no. 9 as switch support only. This terminal is not connected electrically inside switch. Solder and clean switch base on PC board with other components, then snap on housing/actuator assembly. See page K-7 for installation instructions.

### PC MOUNTING



4P MODEL  
SP MODEL (omit terminals B, C & D)  
DP MODEL (omit terminals B & D)



3P MODEL

### CONTACT MATERIAL

| OPTION CODE | CONTACT AND TERMINAL MATERIAL | RATING                         |                                                                                                                      |
|-------------|-------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------|
|             |                               | POWER                          | SWITCH-2.5 AMPS @ 125 V AC; 350 mA @ 125V DC (UL/CSA).<br>CARRY-5 AMPS CONTINUOUS.                                   |
| Q           | SILVER <sup>2</sup>           | LOW LEVEL/DRY CIRCUIT          | 0.4 VA MAX. @ 20 V AC or DC MAX                                                                                      |
| B           | GOLD <sup>1</sup>             | LOW LEVEL/DRY CIRCUIT OR POWER | 0.4 VA MAX. @ 20 V AC or DC MAX. or SWITCH-2.5 AMPS @ 125 V AC; 350 mA @ 125 V DC (UL/CSA). CARRY-5 AMPS CONTINUOUS. |
| G           | GOLD OVER SILVER <sup>3</sup> |                                |                                                                                                                      |

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

<sup>1</sup> MOVABLE CONTACTS: Copper alloy, with gold plate over nickel plate.  
STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate.  
<sup>2</sup> MOVABLE CONTACTS: Coin silver, silver plated.  
STATIONARY CONTACTS & TERMINALS: Brass, silver plated (standard with all termination options).  
<sup>3</sup> MOVABLE CONTACTS: Coin silver, with gold plate over nickel plate over silver plate.  
STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate over silver plate.

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

All models  with all options when ordered with 'G' or 'Q' contact material.

**NOTE:** 'G' contact material is equivalent to both 'B' and 'Q' contact materials.



Third Angle  
Projection

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



# A Series 1-4 Pole Rotary Switches

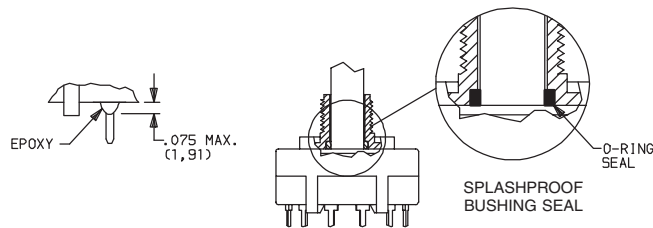
## FUNCTION

**NONE** NO SEAL

**E** EPOXY SEAL

**F** SPLASHPROOF BUSHING SEAL

**K** EPOXY & SPLASHPROOF BUSHING SEAL



### Setting Stops on A112 and A125 Models

The number of switch positions is adjustable on A112 and A125 models only by means of a stop ring provided with each switch. The number of positions is pre-set on all other models and the stop ring is factory installed.

To set stops: Turn shaft fully counter-clockwise and insert stop ring tab in desired hole. Install lockwasher and nut to retain stop ring for both PC and panel mounting. Switch without stop ring has 12 positions.

### Soldering, Cleaning and Assembly Instructions for 'MC' Termination Option

#### Soldering

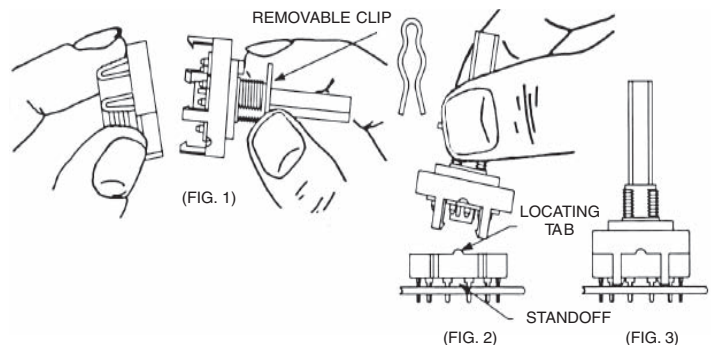
1. Insert switch base only into PC board.
2. Do not bend terminals.
3. Wave soldering recommended at 500F solder temperature.
4. Hand solder at 500F, 10 sec. max./terminal.

#### Cleaning

1. Flux clean using vapor degreaser and forced rinse or triple bath method.
2. Do not allow switch base to 'trap' fluids.
3. Freon TMC, TF or Methylene Chloride give excellent results.

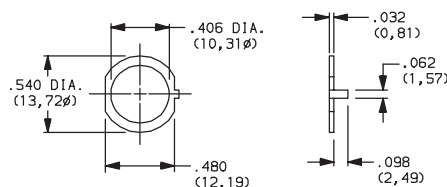
#### Switch Assembly

1. Hold housing/shaft assembly by housing. Remove protective cap by squeezing tabs and discard. (FIG. 1)
2. *Do not push on switch shaft. Detent mechanism will come apart.*
3. While holding switch housing, align locating tab on base with notch on housing and engage 4 housing latches in slots on base. (FIG. 2)
4. Push firmly on housing until latches snap in place.
5. Remove clip from shaft and discard. Assembly is complete. (FIG. 3)



## AVAILABLE HARDWARE

Stop ring



PART NO.

**767B00201**

Material: Brass

Finish: Nickel plated



Third Angle  
Projection

Dimensions are shown: Inch (mm)  
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**K**

Rotary

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[A10015RSCQ](#) [A114-05-R-N-Z-Q](#) [A11215RNCQE](#) [A20615RNCQ](#) [A12515RNZQ](#) [A30415RNZB](#) [A11215RNZQ](#)  
[A20605RNZQ](#) [A20403RNZQ](#) [A30403RNZQ](#) [A11205RNCQ](#) [A104S1RNZQ](#) [A10315RSZQ](#) [A20615RNZQ](#)  
[A30415RNZQ](#) [A112-03-R-S-C-Q](#) [A40303RNCQK](#) [A40305RNCQ](#) [A10205RNZQ](#) [A102S1RNZQ](#) [A10305RNCG](#)  
[A10305RNCQ](#) [A10403RSZGE](#) [A10603RNCQ](#) [A10905RNCQ](#) [A11015RNZQ](#) [A112S1RNCQ](#) [A11503RNCB](#)  
[A12542MNCQ](#) [A20314RNCQ](#) [A20403RNCQ](#) [A20505RNZGK](#) [A30405MNZQ](#) [A30405RNZQ](#) [A30415RNZQE](#)  
[A40203RSZQ](#) [A402S1RNZQ](#) [A40303MNCQF](#) [A403S1RNCQ](#) [A40315RNCQ](#) [A40315RNZQ](#) [A10003MNCQK](#)  
[A10003MNZBE](#) [A10003MNZGE](#) [A10003RNCQ](#) [A10005RNZQ](#) [A10015RSZQ](#) [A10042MNCB](#) [A100S1RNCQ](#)  
[A10205RNCB](#) [A10303RSZQ](#) [A10305RNCGF](#) [A103S1RNCG](#) [A10405RNCQ](#) [A10415RSZQ](#) [A10442RNZG](#)  
[A10515RSZQ](#) [A10615MNCQE](#) [A10615MNZQE](#) [A10615RNZQ](#) [A106S1RNMCB](#) [A106S1RNMCG](#) [A10703MNCQ](#)  
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