Models Available

**Features/Benefits**
- Multi-pole and multi-position
- Positive detent
- Shorting & non-shortening contacts
- Panel and PCB mounting
- RoHS Compliant

**Typical Applications**
- Automotive
- Major and small appliances
- Industrial equipment

**Specifications**

CONTACT RATING: Q contact material: Switch - 2.5 AMPS @ 125 V AC; 350 mA @ 125 V DC (UL/CSA). Carry - 5 AMPS continuous. See page K-6 for additional ratings.

ELECTRICAL LIFE: 15,000 make-and-break cycles at full load up to 300,000 detent operations.

CONTACT RESISTANCE: Below 20 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10 9 Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING & STORAGE TEMPERATURE: -30ºC to 85ºC

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

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 & BUSHING: Glass filled 6/6 nylon (UL 94V-0).

ACTUATOR: Glass filled 6/6 nylon (UL 94V-0).

MOVABLE CONTACTS: Q contact material: Coin silver, silver plated. See page K-6 for additional contact materials.

STATIONARY CONTACTS & TERMINALS: Q contact material: Brass, silver plated. See page K-6 for additional contact materials.


TERMINAL SEAL: Epoxy.

**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–4 through K–7. For additional options not shown in catalog, consult Customer Service Center.
A Series
1-4 Pole Rotary Switches

SWITCH FUNCTION

30° INDEXING

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>MODEL NO.</th>
<th>SWITCH FUNCTION</th>
<th>TERMINALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP</td>
<td>A203</td>
<td>3 Position</td>
<td>A.C,1-3,7-9</td>
</tr>
<tr>
<td></td>
<td>A204</td>
<td>4 Position</td>
<td>A.C,1-4,7-10</td>
</tr>
<tr>
<td></td>
<td>A205</td>
<td>5 Position</td>
<td>A.C,1-5,7-11</td>
</tr>
<tr>
<td></td>
<td>A206</td>
<td>6 Position</td>
<td>A.C,1-12</td>
</tr>
<tr>
<td>3P</td>
<td>A303</td>
<td>3 Position</td>
<td>A.B.C,1-3,5-7</td>
</tr>
<tr>
<td></td>
<td>A304</td>
<td>4 Position</td>
<td>A.B.C,1-12</td>
</tr>
</tbody>
</table>

DP MODELS SCHEMATIC

4P MODELS SCHEMATIC

3P MODELS SCHEMATIC

45° INDEXING

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>MODEL NO.</th>
<th>SWITCH FUNCTION</th>
<th>TERMINALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP</td>
<td>A115</td>
<td>3 Position</td>
<td>A.1,2,4*</td>
</tr>
<tr>
<td></td>
<td>A125</td>
<td>8 Position</td>
<td>A.1,2,4,5,7,8,10,11</td>
</tr>
</tbody>
</table>

90° INDEXING

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>MODEL NO.</th>
<th>SWITCH FUNCTION</th>
<th>TERMINALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP</td>
<td>A114</td>
<td>2 Position</td>
<td>A.1,4*</td>
</tr>
<tr>
<td></td>
<td>A124</td>
<td>4 Position</td>
<td>A.1,4,7,10</td>
</tr>
<tr>
<td>DP</td>
<td>A214</td>
<td>2 Position</td>
<td>A.C,1,4,7,10</td>
</tr>
</tbody>
</table>

TERMINAL NUMBERS

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 with all options when ordered with 'G' or 'Q' contact material, see page K-6.

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

Specifications and dimensions subject to change

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#### A Series

1-4 Pole Rotary Switches

<table>
<thead>
<tr>
<th>ACTUATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.500&quot; HIGH</td>
</tr>
<tr>
<td>03.375&quot; HIGH</td>
</tr>
<tr>
<td>05.500&quot; HIGH</td>
</tr>
<tr>
<td>14.1.500&quot; HIGH</td>
</tr>
<tr>
<td>42.1.654&quot; METRIC</td>
</tr>
<tr>
<td>S1 SCREWDRIVER SLOT</td>
</tr>
</tbody>
</table>

#### MOUNTING STYLE

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

#### Typical Installation

Maximum force to push on knob should not exceed 10 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.
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.

CONTACT MATERIAL

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>CONTACT AND TERMINAL MATERIAL</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q</td>
<td>SILVER²</td>
<td>SWITCH-2.5 AMPS @ 125 V AC; 350 mA @ 125V DC (UL/CSA). CARRY-5 AMPS CONTINUOUS.</td>
</tr>
<tr>
<td>B</td>
<td>GOLD¹</td>
<td>0.4 VA MAX. @ 20 V AC or DC MAX.</td>
</tr>
<tr>
<td>G</td>
<td>GOLD OVER SILVER³</td>
<td>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.</td>
</tr>
</tbody>
</table>

¹ MOVABLE CONTACTS: Copper alloy, with gold plate over nickel plate.
² MOVABLE CONTACTS: Coin silver, silver plated.
³ MOVABLE CONTACTS: Coin silver, 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.

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

<table>
<thead>
<tr>
<th>NONE</th>
<th>E</th>
<th>F</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO SEAL</td>
<td>EPOXY SEAL</td>
<td>SPLASHPROOF BUSHING SEAL</td>
<td>EPOXY &amp; SPLASHPROOF BUSHING SEAL</td>
</tr>
</tbody>
</table>

Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change

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KRotary

A Series

1-4 Pole Rotary Switches

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)

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.

Available Hardware

Stop ring

PART NO.

767B00201

Material: Brass
Finish: Nickel plated

4 dec 17

K-7