**Features/Benefits**

- Multi-pole and multi-position
- Panel and PCB mounting
- Positive detent
- Value added capability
- RoHS Compliant

**Typical Applications**

- Small appliances
- Testing fixtures
- Safety equipment

---

**Specifications**

CONTACT RATING: Q contact material: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA). See page K-24 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 mΩ 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.

INDEXING: 45° or 90° - one contact models; two contact models, 4 pos. max. Models with common terminal -90°, 4 pos. max.

OPERATING & STORAGE TEMPERATURE: -30°C to 65°C

**Materials**

HOUSING & BUSHING: 6/6 Nylon (UL 94V-2).

ACTUATOR: 6/6 nylon (UL 94V-2).

CONTACTS: Q contact material: Copper, silver plated. See page K-24 for additional contact materials.

TERMINALS: Q contact material: Copper, silver plated. See page K-24 for additional contact materials.

CONTACT SPRING: Music wire or stainless steel.

MOUNTING NUT: Brass, nickel plated.

TERMINAL SEAL: Epoxy.

NOTE: Any models supplied with Q or B 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.

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**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-22 thru K-24. For additional options not shown in catalog, consult Customer Service Center.

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**Switch Function**

- FA05 SP, 90° Index, 3 pos.
- F103 SP, 45° Index, 3 pos.
- F203 DP, 45° Index, 3 pos.
- FA01 SPDT, 90° Index
- FC03 SP, W/Common 90° Index, 3 pos.

**Actuator**

- 15 Screwdriver slot without bushing
- 08 .585" high with .156" flat

**Mounting Style**

- RN PC
- RS 5/16-32 threaded bushing

**Terminations**

- 02 PC Thru-hole
- WC Wire lead

**Contact Material**

- Q Silver
- B Gold

**Seal**

- NONE No seal
- E Epoxy seal

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

www.ckswitches.com
**F Series**  
Miniature ROTA-SLIDE® Rotary Switches

### SWITCH FUNCTION

#### 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>F103</td>
<td>3 Position</td>
<td>8-1-2-3*</td>
</tr>
<tr>
<td>DP</td>
<td>F203</td>
<td>3 Position</td>
<td>All Terminals</td>
</tr>
</tbody>
</table>

**45° INDEXING SCHEMATICS**

Break-before-make contacts. Terminal numbers are molded on bottom of housing. Actuators are shown in position 1.

F1XX, F2XX models: No common terminal is present. Switching function is provided by movable contacts shorting adjacent pairs of stationary contacts.

**NOTE:** Switches with ‘02’ PC terminations have additional terminal no. 5 as switch support only. This terminal is not connected electrically inside switch.

#### 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>FA01</td>
<td>SPDT</td>
<td>8-1-3</td>
</tr>
<tr>
<td></td>
<td>FA05</td>
<td>3 Position</td>
<td>8-1-3-5</td>
</tr>
<tr>
<td>SP WITH COMMON</td>
<td>FC03</td>
<td>3 Position</td>
<td>C-1,C-2,C-3</td>
</tr>
</tbody>
</table>

**90° INDEXING SCHEMATICS**

Break-before-make contacts. Terminal numbers are molded on bottom of housing. Actuators are shown in position 1.

FA0X models: No common terminal is present. Switching function is provided by movable contacts shorting adjacent pairs of stationary contacts.

**NOTE:** Switches with ‘02’ PC terminations have additional terminal no. 5 as switch support only. This terminal is not connected electrically inside switch.

**FCXX MODELS**

Common terminal is present.

**NOTE:** Switches with ‘02’ PC terminations have additional terminal no. 5 as switch support only. This terminal is not connected electrically inside switch.

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Part number show: FC0315RN02Q

Dimensions are shown: inch [mm]  
Specifications and dimensions subject to change

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**ACTUATOR**

| 15 | SCREWDRIVER SLOT WITHOUT BUSHING |

shown with ‘RN’ mounting style; not available with ‘RS’ mounting style or FCXX models.

| 08 | .585” HIGH WITH .156” FLAT |

Must be ordered with ‘RS’ mounting style.

**MOUNTING STYLE**

| RN | PC | RS | 5/16-32 THREADED BUSHING |

PC mount, no bushing, position numbers molded standard. Shown with ‘15’ actuator; not available with ‘08’ actuator or FCXX models.

Panel mount, with 5/16 in.–32 threaded bushing. Mounting nut (P/N 175020201) included. Must be ordered with ‘08’ actuator option.

**TERMINATIONS**

| 02 | PC THRU-HOLE | WC | WIRE LEAD |

Black wire standard, other colors and lengths available, consult Customer Service Center. UL style 1015.

**F1XX, F2XX & FAXX Models**

| 02 | PC THRU-HOLE |

**FCXX Models**
**F Series**
**Miniature ROTA-SLIDE® Rotary Switches**

### 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>SILVER ²</td>
<td>POWER</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).</td>
</tr>
<tr>
<td>B</td>
<td>GOLD ¹</td>
<td>LOW LEVEL/DRY CIRCUIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.4 VA MAX. @ 20 V AC or DC MAX.</td>
</tr>
</tbody>
</table>

¹ CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.
² CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).

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

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### SEAL

<table>
<thead>
<tr>
<th>SEAL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>NO SEAL</td>
</tr>
<tr>
<td>E</td>
<td>EPOXY SEAL</td>
</tr>
</tbody>
</table>

EPOXY SEAL

D75 MAX. (1, 91)

Not available on FCXX models.

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* Note: Any models supplied with Q or B contact material are RoHS compliant.

All models with all options when ordered with ‘Q’ contact material.

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