# F Series Miniature ROTA-SLIDE® Rotary Switches

## 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 m  $\Omega$  typ. initial @

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

INSULATION RESISTANCE:  $10^9 \Omega$  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.

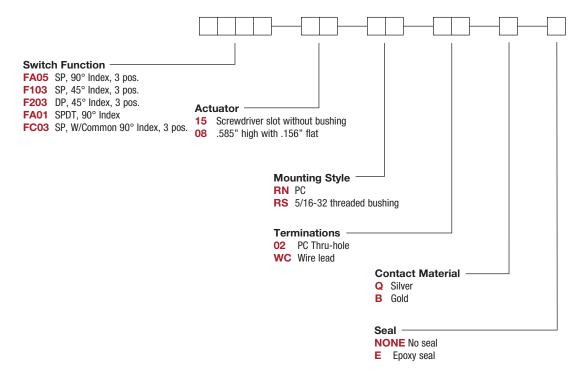
TERMINAL SEAL: Epoxy.

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 Custome Service Center.

### **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.



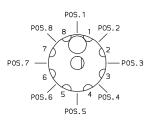


# F Series Miniature ROTA-SLIDE® Rotary Switches

# SWITCH FUNCTION -----

45° INDEXING				
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS	
SP	F103	3 Position	8-1-2-3*	
DP	F203	3 Position	All Terminals	

### 45° INDEXING SCHEMATICS



POS.4 8 1 POS.2

7 POS.3 POS.3 POS.3

POS.2 POS.4 POS.4

F1XX MODELS

F2XX MODELS

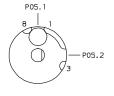
Break-before-make contacts. Terminal numbers are molded on bottom of housing. Actuators are shown in position 1.

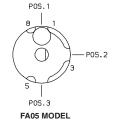
**NOTE:** \*Switches with '02' PC terminations have additional terminal no. 5 as switch support only. This terminal is not connected electrically inside switch.

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

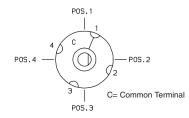
### 90° INDEXING MODEL SWITCH NO. **TERMINALS POLES FUNCTION FA01** SPDT 8-1-3 SP FA05 8-1-3-5 3 Position SP WITH FC03 3 Position C-1,C-2,C-3 COMMON

### 90º INDEXING SCHEMATICS





FA01 MODEL



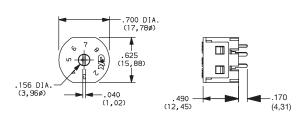
FCXX MODEL

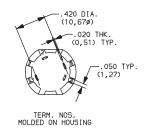
Break-before-make contacts. Terminal numbers are molded on bottom of housing. Actuators are shown in position 1.

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

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.





Part number show: FC0315RN02Q

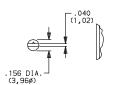


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



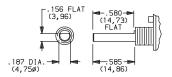
### ACTUATOR -

15 SCREWDRIVER SLOT WITHOUT BUSHING



Shown with 'RN' mounting style; not available with 'RS' mounting style or FCXX models.

**08** .585" HIGH WITH .156" FLA



Must be ordered with 'RS' mounting style.

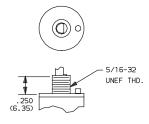
### **MOUNTING STYLE**

RN PC



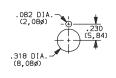


PC mount, no bushing, position numbers molded standard. Shown with '15' actuator; not available with '08' actuator or FCXX models. RS 5/16-32 THREADED BUSHING



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

PANEL MOUNTING

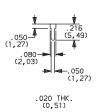


5/16 IN. BUSHING

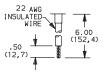
# **TERMINATIONS**



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** 



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



PC MOUNTING

# **F Series** Miniature ROTA-SLIDE® Rotary Switches

# CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATING	
Q	SILVER <sup>2</sup>	POWER	4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).
В	GOLD <sup>1</sup>	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC or DC MAX.

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

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

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



with all options when ordered with 'Q' contact material.

SEAL ---

NONE NO SEAL



Not available on FCXX models.





# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

# **C&K Switches:**

FA0108RS02Q FA0108RSWCQ FA0115RN02B FA0515RN02B FA0108RSWCQE FA0115RN02Q FA0508RS02Q FA0515RN02Q FA0115RN02QE F10308RSWCQ F10315RN02BE F20315RN02BE F10315RN02QE F10315RN02QE F20315RN02QE F20315RN02Q F20308RS02Q FA101BKGN FA200BKYE FA201BK0G