

F Series

Miniature ROTA-SLIDE® Rotary Switches



Specifications

Contact Rating	Q contact material: 4 amps @ 125 V AC or 28 V DC; 2 amps @ 250 V AC (UL/CSA).
Electric Life	10,000 make-and-break cycles at full load
Contact Resistance	Below 10 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.
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

Description

Engineers designing the latest innovative power tools, ceiling fans and industrial equipment turn to the F series miniature ROTA-SLIDE® rotary switch when they need a high-performing, high-quality switch that features multi-pole and multi-position options, positive detent and panel or PCB mounting

Features & Benefits

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

Applications

- Small appliances
- Testing fixtures
- Safety equipment

Materials

Housing & Bushing	6/6 nylon (UL 94V-2).
Actuator	
Contacts & Terminals	Q contact material: Copper, silver plated.
Contact Spring	Music wire or stainless steel
Mounting Nut	Brass, nickel plated.
Terminal Seal	Epoxy.

Notes: Any models supplied with Q or B contact material are RoHS compliant. Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Agency Approvals

Agency	Agency File Number
	E42363

Ordering Number

To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult Customer Service Center.

Fxxx - xx - xx - xx - x - x					
Switch Function					Seal
FA05: SP, 90° Index, 3 pos.					None: No seal
F103: SP, 45° Index, 3 pos.					E: Epoxy seal
F203: DP, 45° Index, 3 pos.					
FA01: SPDT, 90° Index					
FC03: SP, W/Common 90° Index, 3 pos.					
Actuator				Contact Material	
15: Screwdriver slot without bushing				Q: Silver	
08: 0.585" high with 0.156" flat				B: Gold	
			Mounting Style	Terminations	
			RN: PC	02: PC Thru-hole	
			RS: 5/16-32 threaded bushing	WC: Wire Lead	

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Switch Function

45° Indexing

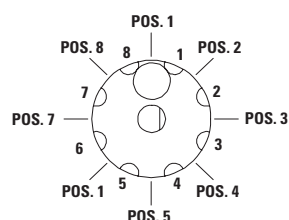
No. Poles	Model No.	Switch Function	Terminals
SP	F103	3 Positions	8-1-2-3 ¹
DP	F203	3 Positions	All Terminals

90° Indexing

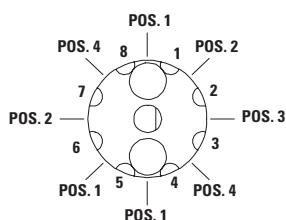
No. Poles	Model No.	Switch Function	Terminals
SP	FA01	SPDT	8-1-3
	FA05	3 Positions	8-1-3-5
SP with Common	FC03	3 Positions	C-1,C-2,C-3

45° Indexing Schematics

F1XX Model



F2XX Model

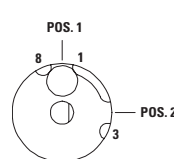


Notes: Break-before-make contacts. Terminal numbers are molded on bottom of housing. Actuators are shown in position 1. F1XX, F2XX models: No common terminal is present. Switching function is provided by movable contacts shorting adjacent pairs of stationary contacts.

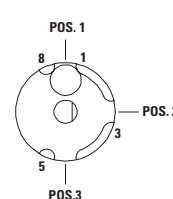
1. Switches with '02' PC terminations have additional terminal no. 5 as switch support only. This terminal is not connected electrically inside switch.

90° Indexing Schematics

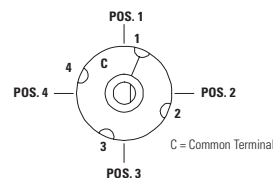
FA01 Model



FA05 Model



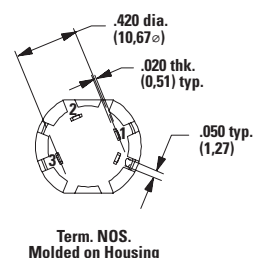
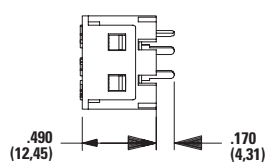
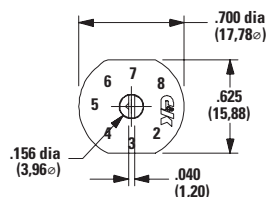
FCXX Model



Notes: 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.

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

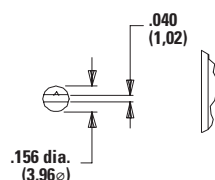
Dimensions in inches (mm)



Part number show: FC0315RN02Q

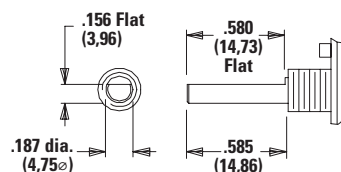
Actuator

15 Screwdriver Slot Without Bushing



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

08 0.585" High With 0.156" FLA



Must be ordered with 'RS' mounting style.

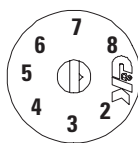
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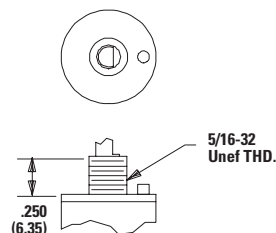
Mounting Style

RN PC

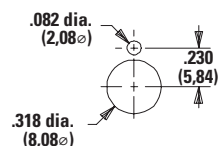


PC mount, no bushing, position numbers molded standard. Shown with '15' actuator; not available with '08' actuator or FCXX models.

RS 5/16-32 Threaded Bushing



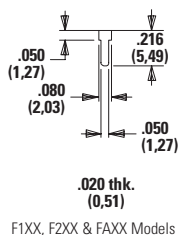
Panel Mounting



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

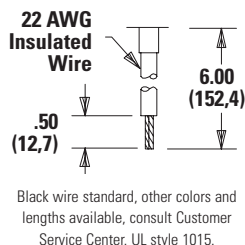
Terminations

02 PC Thru-Hole



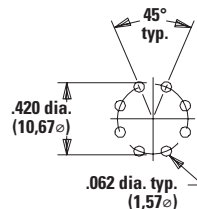
F1XX, F2XX & FAXX Models

WC Wire Lead

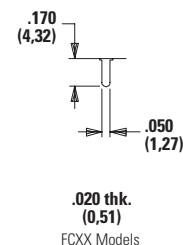


Black wire standard, other colors and lengths available, consult Customer Service Center. UL style 1015.

PC Mounting



02 PC Thru-Hole



FCXX Models

Contact Material

Option Code	Contact Material	Rating
Q	Silver ²	Power
B	Gold ¹	Low Level / Dry Circuit
		4 Amps @ 125 V AC or 28 V DC; 2 amps @ 250 V AC (UL/CSA).
		0.4 VA Max. @ 20 V AC or DC Max.

Notes: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications. Any models supplied with Q or B contact material are RoHS compliant. All models **C&K** US with all options when ordered with 'Q' contact material.

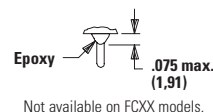
1. Contacts & Terminals: Copper, with gold plate over nickel plate.

2. Contacts & Terminals: Copper, silver plated. (Standard with all termination options.)

Seal

None No Seal

E Epoxy Seal



Not available on FCXX models.

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