R Series
ROTA-SLIDE® Rotary Switches



Description

R series Rota-Slide® rotary switches are often found in industrial equipment, portable tools and ceiling fans. The R series are known for being high-quality, long lasting switches that feature positive detent, multi-pole and multi-position capabilities and panel or PCB mounting.

Features & Benefits

- Multi-pole and multi-position
- Positive detent
- Panel and PCB mounting
- Enclosed
- RoHS Compliant

Applications

- Ceiling fans
- Industrial equipment
- Portable tools
- Lighting

Agency Approvals

Agency	Agency File Number
c UL us	E42363

Notes: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Specifications

Contact Rating	Q contact material: 5 amps @ 125 V AC; 2.5 amps @ 250 V AC; 0.5 amp @ 125 V DC; 1/8 HP @ 125 and 250 VAC (UL/CSA).
Electrical 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	36°-one contact models, 10 position max.; two contact models, 5 position max
Operating & Storage Temperature	-30°C to 95°C

Materials

Housing & Bushing	6/6 nylon (UL 94-V2)
Actuator	
Contacts & Terminals	Q contact material: Copper, silver plating
Contact Spring	Music wire or stainless steel
Mounting Nut	Steel, zinc plated
Terminal Seal	Epoxy

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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.

Rxxx - xx - xx - xx - x - x

Switch Function
R100: SP, 36° Index, 10 pos. no stops
R103: SP, 36° Index, 3 pos.
R104: SP, 36° Index, 4 pos.
R108: SP, 36° Index, 8 pos.
R203: DP, 36° Index, 3 pos.
R204: DP, 36° Index, 4 pos.
R205: DP, 36° Index, 5 pos.

Actuator
07: 0.500" high with 0.156" flat
05: 0.375" high with 0.156" flat
15: Screwdriver slot without bushing

Mounting Style
RR: 3/8-32 threaded bushing
RN: PC without bushing
RS: PC without bushing

Terminations
03: Solder lug with hole
01: Solder lug with notch
02: PC Thru-hole
WC: Wire Lead

Contact Material
Q: Silver
B: Gold

Seal
None: No seal
E: Epoxy seal

Switch Function

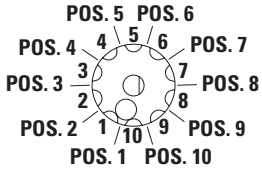
SP Models 36° Indexing

No. Poles	Model No.	Switch Function	Terminals
SP	R100	10 Positions No Stops	All Terminals
	R103	3 Positions	10-1-2-3
	R104	4 Positions	10-1-2-3-4
	R108	8 Positions	10-1-2-3-4-5-6-7-8

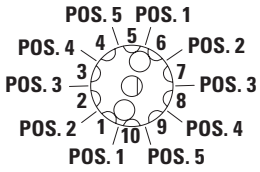
DP Models 36° Indexing

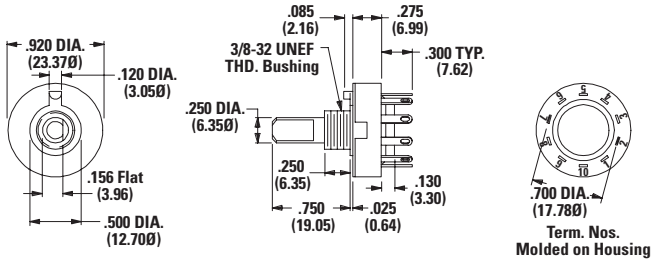
No. Poles	Model No.	Switch Function	Terminals
DP	R203	3 Positions	10-1-2-3, 5-6-7-8
	R204	4 Positions	All Terminals
	R205	5 Positions	

SP Models 36° Indexing Schematic



DP Models 36° Indexing Schematic





Part number shown: R10007RR03Q

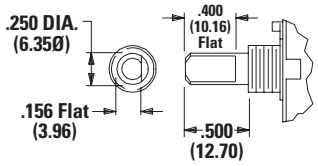
Notes: All models c UL us with all options when ordered with 'Q' contact material. Break-before-make contacts. Actuators and contacts are shown in position **1.** No common terminal is present. Switching function is provided by movable contacts shorting adjacent pairs of stationary contacts.

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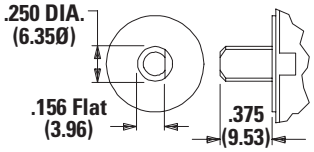
Actuator

07 0.50019" High with 0.156" Flat



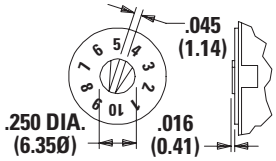
Shown with 'RR' mounting style.
For mounting styles without bushing, add 0.250 (6,35) to actuator length.

05 0.375" with 0.156" Flat



Shown with 'RN' mounting style.

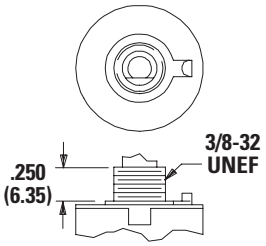
15 Screwdriver Slot



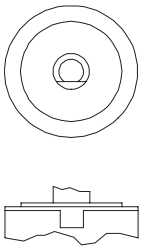
Arrow on actuator marked red (std.).
Shown with 'RS' mounting style.

Mounting Style

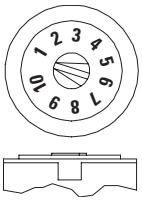
RR 3/8-32 Threaded Bushing



RN PC Without Bushing

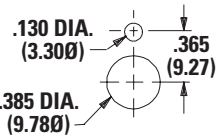


RS PC Screwdriver Slot Without Bushing



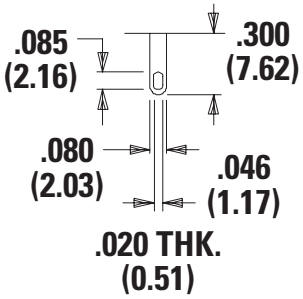
Position numbers and characters are molded on housing.

Panel Mounting

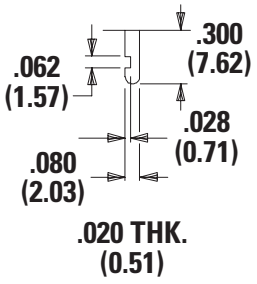


Terminations

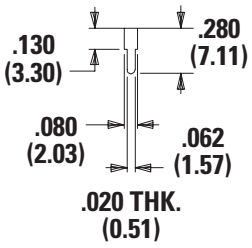
03 Solder Lug With Hole



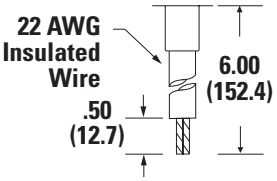
01 Solder Lug With Notch



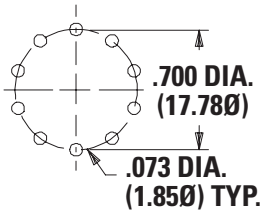
02 PC Thru-Hole



WC Wire Lead



PC Mounting



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Contact Material

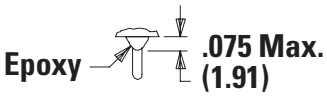
Option Code	Contact Material	Rating	
Q	Silver[2]	Power	5 amps @ 125 V AC; 2.5 amps @ 250 V AC; 0.5 amp @ 125 V DC (UL/CSA); 1/8 HP @ 125 and 250 VAC (UL/CSA)
B	Gold[1]	Low Level / Dry Circuit	0.4 VA max. @ 20 V AC or DC max.

Notes: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications. Any models supplied with Q, B or G contact material are RoHS compliant. All models c UL 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



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