



**THE DATASHEET OF
R10307RN02Q**



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
- Enclosed
- Positive detent
- RoHS Compliant
- Panel and PCB mounting

Applications

- Ceiling fans
- Portable tools
- Industrial equipment
- Lighting

Agency Approvals

| Agency | Agency File Number |
|--------|--------------------|
| | 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 |

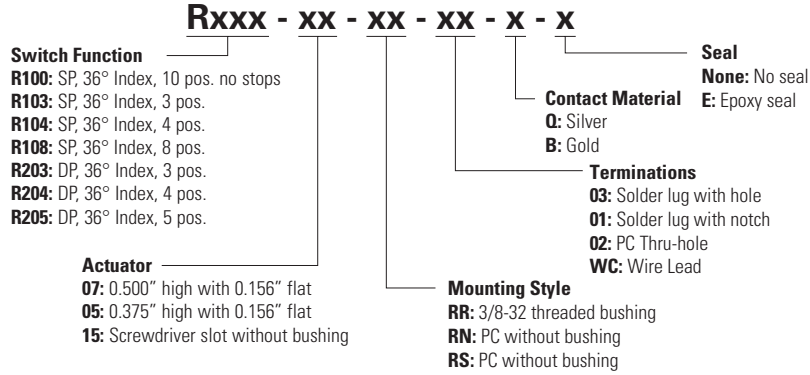
R Series

ROTA-SLIDE® Rotary Switches



Ordering Number

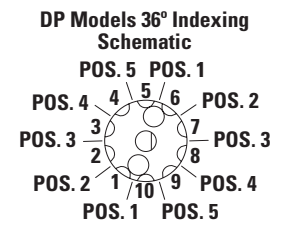
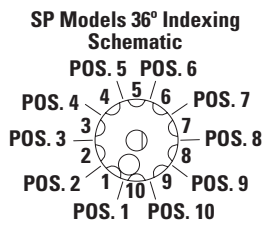
To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult Customer Service Center.



Switch Function

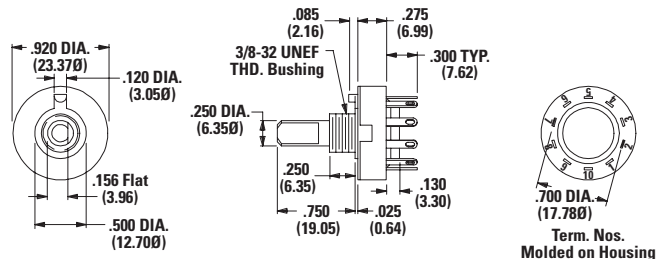
SP Models 36° Indexing

| 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 | |



Part number shown: R10007RR03Q

Notes: All models C&K 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.

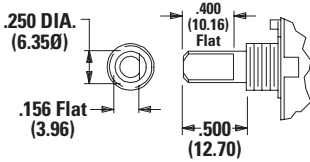
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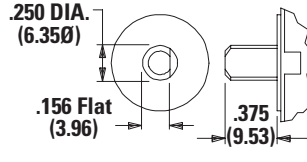
Actuator

07 0.50019" High with 0.156" Flat



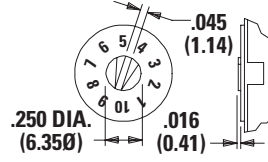
Shown with 'RR' mounting style.
For mounting styles without bushing,
add 0.250 (6,35) to actuator length.

05 0.375" with 0.156" Flat



Shown with 'RN' mounting style.

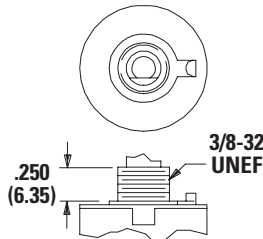
15 Screwdriver Slot



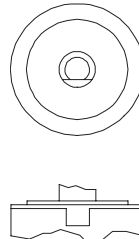
Arrow on actuator marked red (std.).
Shown with 'RS' mounting style.

Mounting Style

RR 3/8-32 Threaded Bushing



RN PC Without Bushing

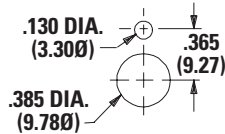


RS PC Screwdriver Slot Without Bushing



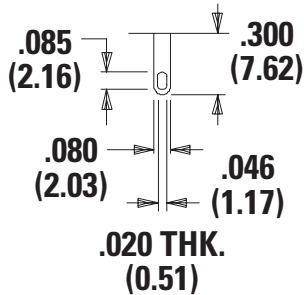
Position numbers and characters
are molded on housing.

Panel Mounting

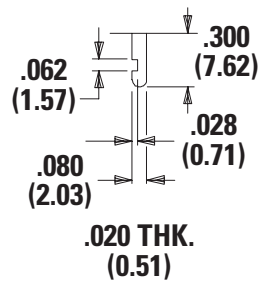


Terminations

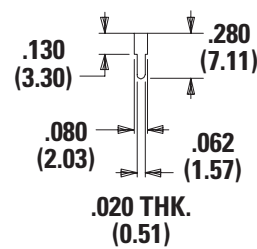
03 Solder Lug With Hole



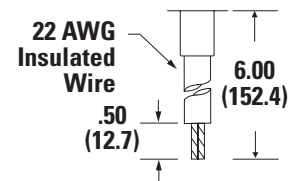
01 Solder Lug With Notch



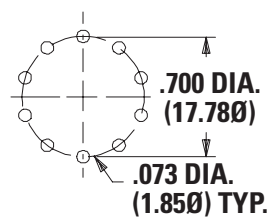
02 PC Thru-Hole



WC Wire Lead



PC Mounting




R Series

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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**  **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.)

None No Seal

Seal

E Epoxy Seal



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