

C&K R Series ROTA-SLIDE® Rotary Switches



Features/Benefits

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

Typical Applications

- Ceiling fans
- Industrial equipment
- Portable tools



Specifications

CONTACT RATING: Q contact material: 5 AMPS @ 125 V AC;
2.5 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA).

See page K-40 for additional ratings.

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: 10⁹ Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

INDEXING: 36°-one contact models, 10 position max.; two contact
models, 5 position max.

Materials

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

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

CONTACTS & TERMINALS: Q contact material: Copper, silver plated.
See page K-40 for additional contact materials.

CONTACT SPRING: Music wire or stainless steel.

MOUNTING NUT: Steel, zinc plated.

TERMINAL SEAL: Epoxy.

NOTE: Specifications and materials listed above are for switches with standard options.
For information on specific and custom switches, consult Customer 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-39 and K-40. For additional options not shown in catalog, consult Customer Service Center.

Switch Function

- R100** (STD.) SP, 36° Index, 10 pos. no stops
- R102** SPDT, 36° Indexing
- R103** SP, 36° Index, 3 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** (STD.) .500" high with .156" flat
- 05** .375" high with .156" flat
- 15** Screwdriver slot without bushing
- 16** Screwdriver slot with bushing

Mounting Style

- RR** (STD.) 3/8-32 threaded bushing
- RN** PC without bushing
- RS** PC without bushing

Terminations

- 03** (STD.) Solder lug with hole
- 01** Solder lug with notch
- 02** PC Thru-hole
- WC** Wire lead

Contact Material

- Q** (STD.) Silver
- B** Gold

Seal

- NONE** (STD.) No seal
- E** Epoxy seal



K

Rotary

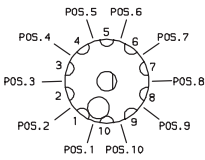
R Series ROTA-SLIDE® Rotary Switches

SWITCH FUNCTION



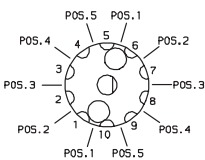
SP MODELS 36° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
SP	R100	10 Position No Stops	All Terminals
	R102	SPDT	10-1-2
	R103	3 Position	10-1-2-3
	R108	8 Position	10-1-2-3-4-5-6-7-8

SP MODELS 36° INDEXING
SCHEMATIC



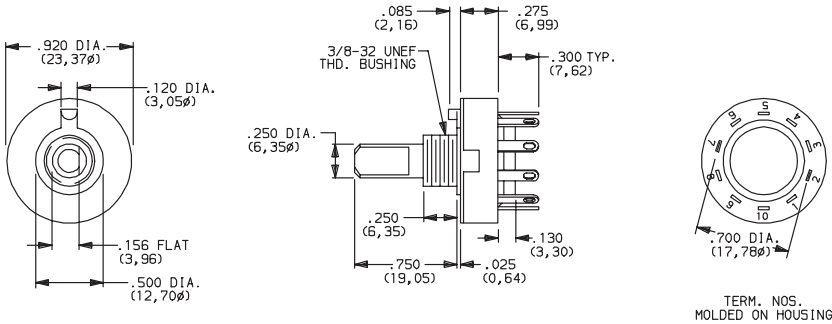
DP MODELS 36° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
DP	R203	3 Position	10-1-2-3-5-6-7-8
	R204	4 Position	All Terminals
	R205	5 Position	All Terminals

DP MODELS 36° INDEXING
SCHEMATIC



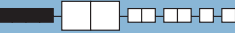
All models with all options when ordered with 'Q' contact material.

NOTE: 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.

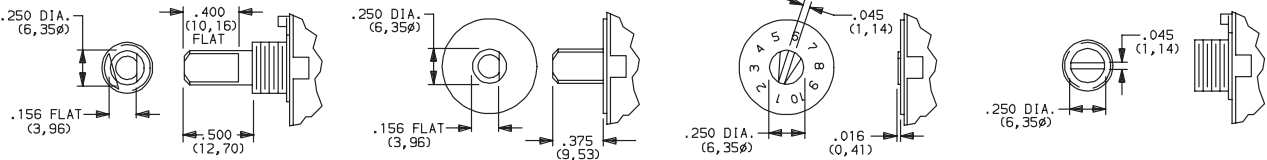


Part number show: R10007RR03Q

ACTUATOR



07 (STD.) .500" HIGH WITH .156" FLAT **05** .375" HIGH WITH .156" FLAT **15** SCREWDRIVER SLOT **16** SCREWDRIVER SLOT



Shown with 'RR' mounting style. For mounting styles without bushing, add .250 (6,35) to actuator length. Shown with 'RN' mounting style. Arrow on actuator marked red (std.). Shown with 'RS' mounting style. Shown with 'RR' mounting style. For mounting styles without bushing, add .250 (6,35) to actuator length.

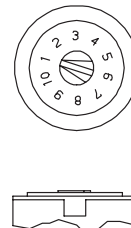
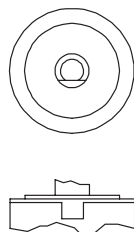
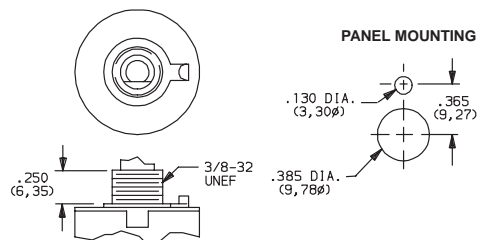
C&K R Series ROTA-SLIDE® Rotary Switches

MOUNTING STYLE

RR (STD.) 3/8-32 THREADED BUSHING

RN PC WITHOUT BUSHING

RS PC SCREWDRIVER SLOT WITHOUT BUSHING



Position numbers and characters are molded on housing.

Mounting nut included (part number 175000100).

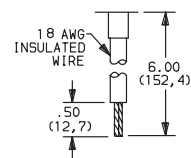
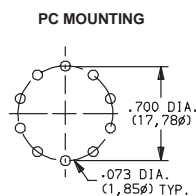
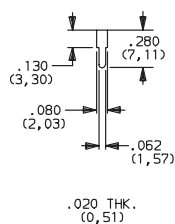
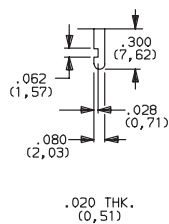
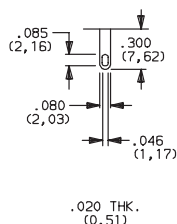
TERMINATIONS

03 (STD.) SOLDER LUG WITH HOLE

01 SOLDER LUG WITH NOTCH

02 PC THRU-HOLE

WC WIRE LEAD



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



CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
		POWER	5 AMPS @ 125 V AC; 2.5 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA).
Q (STD.)	SILVER ²	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
B	GOLD ¹		

CONTACT MATERIAL/APPLICATION RECOMMENDATIONS-SEE SECTION N.

¹ CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.

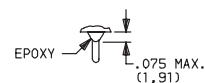
² CONTACTS & TERMINALS: Copper, silver plated. (Standard with all termination options.)

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

SEAL

NONE (STD.) NO SEAL

E EPOXY SEAL



Mouser Electronics

Authorized Distributor

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

C&K Switches:

[R10216RR02QE](#) [R10216RR02QA](#) [R10307RR01](#)