R Series
ROTA-SLIDE® Rotary Switches

Features/Benefits

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

Typical Applications

- Ceiling fans
- Industrial equipment
- Portable tools

Models Available

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).
See page K-20 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: 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 94V-2).

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

CONTACTS & TERMINALS: Q contact material: Copper, silver plated.
See page K-20 for additional contact materials.

CONTACT SPRING: Music wire or stainless steel.

MOUNTING NUT: Steel, zinc 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.

Rotary — K

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-19 and K-20. For additional options not shown in catalog, consult Customer Service Center.

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	.500" high with .156" flat
05	.375" high with .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 Position No Stops	All Terminals
	R103	3 Position	10-1-2-3
	R104	4 Position	10-1-2-3-4
	R108	8 Position	10-1-2-3-4-5-6-7-8

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

SP MODELS 36° INDEXING SCHEMATIC

DP MODELS 36° INDEXING SCHEMATIC

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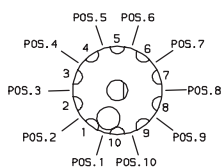
DP MODELS 36° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
DP	R203	3 Position	10-1-2-3,5-6-7-8
	R204	4 Position	All Terminals
	R205	5 Position	All Terminals

.920 DIA. (23,37Ø)
.120 DIA. (3,05Ø)
.156 FLAT (3,96)
.500 DIA. (12,70Ø)

.085 (2,16)
.275 (6,99)
3/8-32 UNEF THD. BUSHING
.300 TYP. (7,62)
.250 DIA. (6,35Ø)
.250 (6,35)
.130 (3,30)
.750 (19,05)
.025 (0,64)
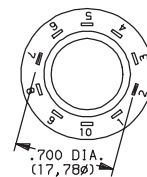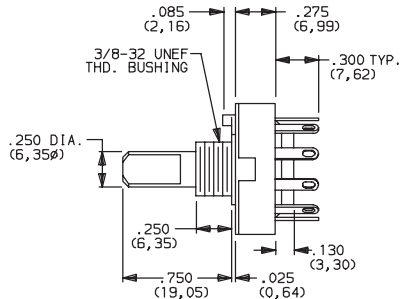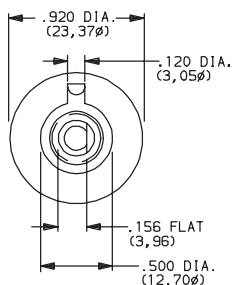
.700 DIA. (17,78Ø)
TERM. NOS. MOLDED ON HOUSING

Part number show: R10007RR03Q

ACTUATOR

07 .500 19" HIGH WITH .156" FLAT   **05** .375"19 HIGH WITH .156" FLAT   **15** SCREWDRIVER SLOT

.250 DIA. (6,35Ø)
.400 (10,16) FLAT
.156 FLAT (3,96)
.500 (12,70)
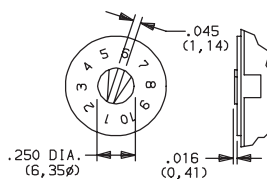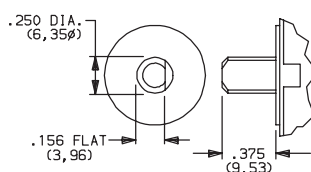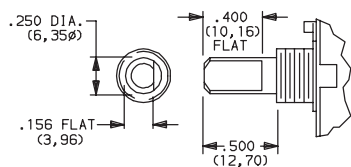
Shown with 'RR' mounting style. For mounting styles without bushing, add .250 (6,35) to actuator length.

.250 DIA. (6,35Ø)
.156 FLAT (3,96)
.375 (9,53)

Shown with 'RN' mounting style.

.045 (1,14)
.250 DIA. (6,35Ø)
.016 (0,41)

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

Third Angle Projection

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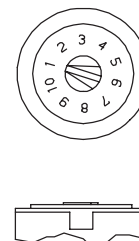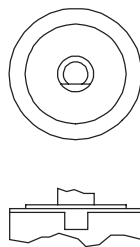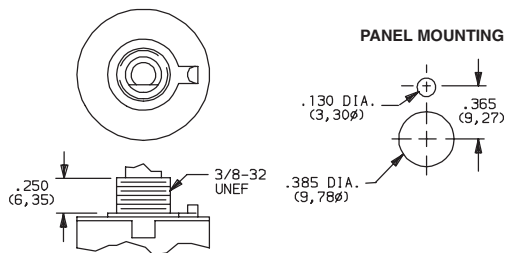*Specifications and dimensions subject to change*

K

Rotary

R Series
ROTA-SLIDE® Rotary Switches

MOUNTING STYLE

RR 3/8-32 THREADED BUSHING

PANEL MOUNTING

.130 DIA.
(3,30Ø)

.365
(9,27)

.385 DIA.
(9,78Ø)

.250
(6,35)

3/8-32
UNEF

Mounting nut included (part number 175000100).

RN PC WITHOUT BUSHING

RS PC SCREWDRIVER SLOT WITHOUT BUSHING
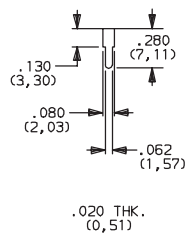
Position numbers and characters
are molded on housing.

TERMINATIONS

03 SOLDER LUG WITH HOLE

.085
(2,16)

.300
(7,62)

.080
(2,03)

.046
(1,17)

.020 THK.
(0,51)

01 SOLDER LUG WITH NOTCH

.062
(1,57)

.300
(7,62)

.028
(0,71)

.080
(2,03)

.020 THK.
(0,51)

02 PC THRU-HOLE

.130
(3,30)

.280
(7,11)

.080
(2,03)

.062
(1,57)

.020 THK.
(0,51)

PC MOUNTING

.700 DIA.
(17,78Ø)

.073 DIA.
(1,85Ø) TYP.

WC WIRE LEAD

22 AWG
INSULATED
WIRE

6.00
(152,4)

.50
(12,7)
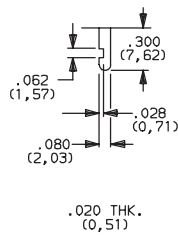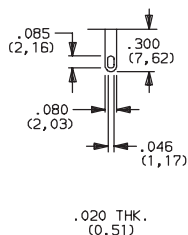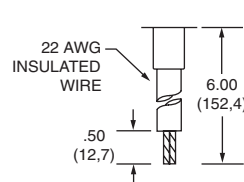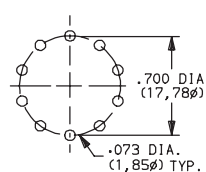
CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL 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.

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications.

[1] CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.
[2] CONTACTS & TERMINALS: Copper, silver plated. (Standard with all termination options.)
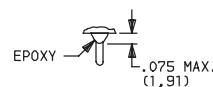
NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

All models c**UL**us with all options when ordered with 'Q' contact material.

SEAL

NONE NO SEAL

E EPOXY SEAL

EPOXY

.075 MAX.
(1,91)

Third Angle
Projection

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