








Rotary Switches

Product Selection Guide

Rotary							
Series	A	RTA	M	R	F	H	RW
Switch Type	Multi-pole/ Multi-position	Multi-pole/ Multi-position	Half-inch	Rota-slide	Rota-slide	Power Rota-slide	Subminiature Rotary SMT
Miniature		•			•		•
Low Profile					•		•
Screwdriver Slot	•	•		•	•		
Illumination							
Power						•	
Maximum Current	2.5 Amps	150 mA	6 Amps	5 Amps	4 Amps	12 Amps	0.1 A 10mA
Poles	1-4	1-4	1 & 2	1 & 2	1 & 2	1 & 2	1
Indexing	30°, 45°, 90°		30° & 36°	36°	45° & 90°	45° & 90°	36° & 45°
Splashproof	•		•				
Sealed			• F option				
Non-shorting/ Shorting Contacts	•		•				
Panel Mount Options							
Front Mount							
Rear Mount	•	•	•	•	•	•	
PCB Mount Options							
Vertical	•	•	•	•	•		•
Terminations							
Solder Lug	•	•	•	•	•	•	
Wire Lead				•	•	•	
Quick Connect							
PC	•	•	•	•	•		
Page No.	K-3	K-8	K-13	K-18	K-21	K-25	K-28



K

Rotary

Rotary

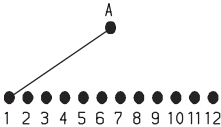
A Series

1-4 Pole Rotary Switches

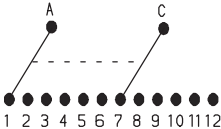
SWITCH FUNCTION

30° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
SP	A100	12 Position No Stops	A,1-12
	A102	SPDT	A,1,2*
	A103	3 Position	A,1-3*
	A104	4 Position	A,1-4*
	A105	5 Position	A,1-5*
	A106	6 Position	A,1-6*
	A107	7 Position	A,1-7
	A108	8 Position	A,1-8
	A109	9 Position	A,1-9
	A110	10 Position	A,1-10
	A112	12 Position	A,1-12
DP	A203	3 Position	A,C,1-3,7-9
	A204	4 Position	A,C,1-4,7-10
	A205	5 Position	A,C,1-5,7-11
	A206	6 Position	A,C,1-12
3P	A303	3 Position	A,B,C,1-3,5-7 9-11
	A304	4 Position	A,B,C,1-12

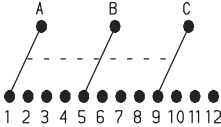
SP MODELS SCHEMATIC



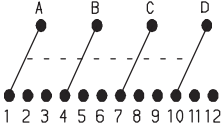
DP MODELS SCHEMATIC



3P MODELS SCHEMATIC



4P MODELS SCHEMATIC

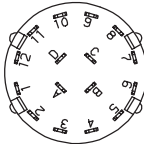


30° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
4P	A402	4PDT	A,B,C,D,1,2,4,5,7, 8,10,11
	A403	3 Position	All Terminals

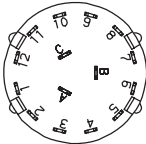
45° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
SP	A115	3 Position	A,1,2,4*
	A125	8 Position	A,1,2,4,5,7,8,10,11

90° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
SP	A114	2 Position	A,1,4*
	A124	4 Position	A,1,4,7,10
DP	A214	2 Position	A,C,1,4,7,10

TERMINAL NUMBERS



Terminal numbers molded on bottom of housing.

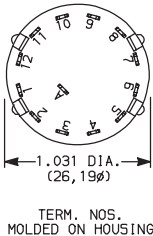
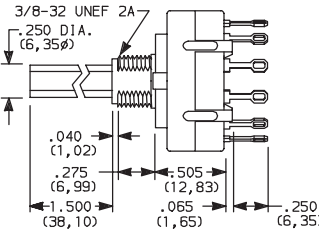
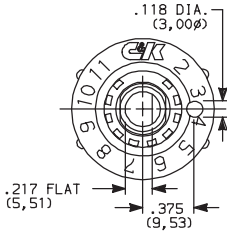


3P MODELS

4P MODELS
SP MODELS (omit terminals B, C & D)
DP MODELS (omit terminals B & D)

NOTE: * These models with 'C' or 'MC' terminations have additional terminal no. 9 as switch support only. This terminal is not connected electrically inside switch.

All models **C&K** with all options when ordered with 'G' or 'Q' contact material, see page K-6.



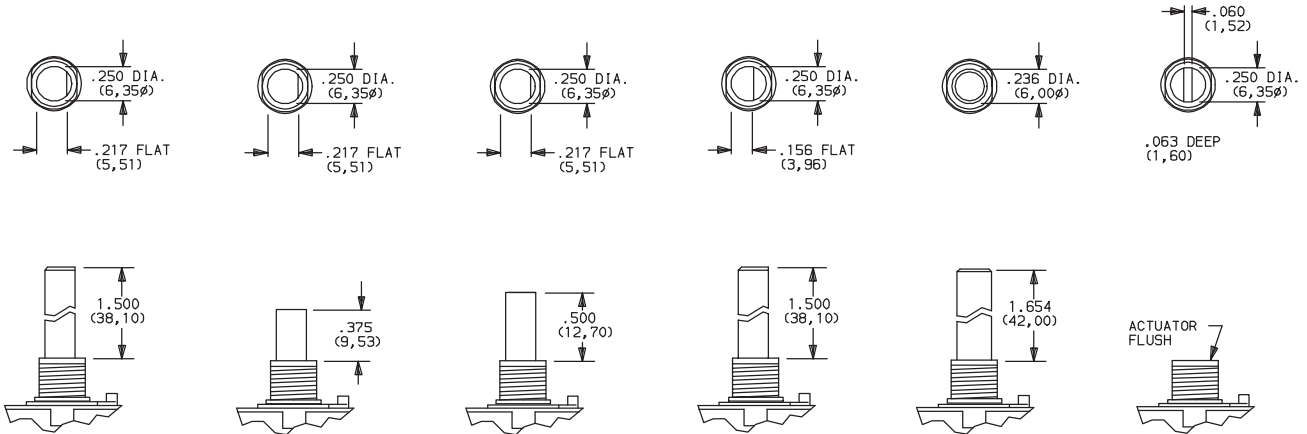
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



A Series 1-4 Pole Rotary Switches

ACTUATOR

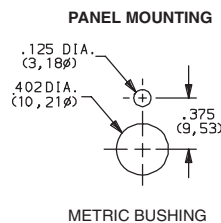
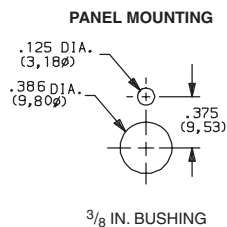
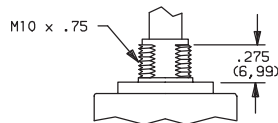
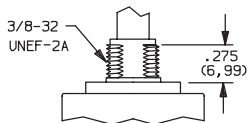
15 1.500" HIGH **03** .375" HIGH **05** .500" HIGH **14** 1.500" HIGH **42** 1.654" METRIC **S1** SCREWDRIVER SLOT



NOTE: Actuators shown in position 1, fully CCW.

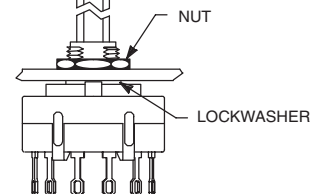
MOUNTING STYLE

R 3/8-32 THREAD **M** M10 x .75 METRIC



TYPICAL INSTALLATION

Maximum force to push on knob should not exceed 10 in./lbs.



Install switch with stop ring (if used) and lockwasher in back of panel. Tighten hex nut from front of panel.

On PC mounted switches, use hex nut and lockwasher to hold stop ring in place.

Actuation torque: 8-16 oz./in.
Maximum torque: 30 oz./in.

SHORTING/NON-SHORTING CONTACTS

N NON-SHORTING CONTACTS (break-before-make)
S SHORTING CONTACTS (make-before-break)

NOTE: 'S' shorting contacts are not available with A114, A124 and A214 models.



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

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K

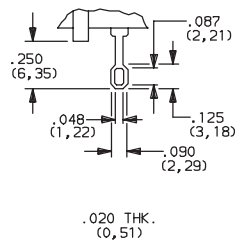
Rotary

A Series

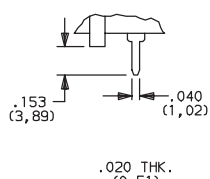
1-4 Pole Rotary Switches

TERMINATIONS

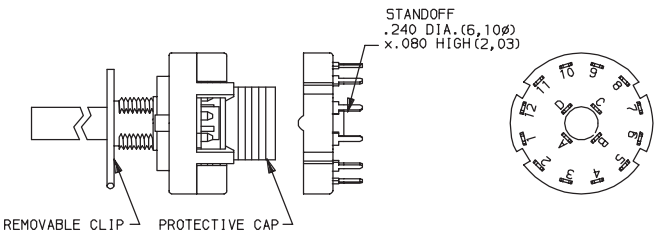
Z SOLDER LUG



C PC THRU-HOLE

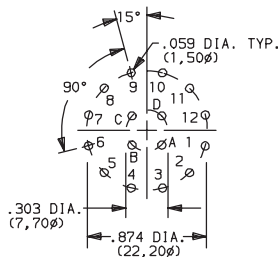


MC MODULAR BASE (for wave soldering)

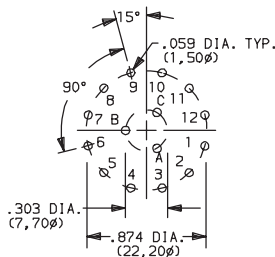


NOTE: Switches with 'C' or 'MC' terminations have additional terminal no. 9 as switch support only. This terminal is not connected electrically inside switch. Solder and clean switch base on PC board with other components, then snap on housing/actuator assembly. See page K-7 for installation instructions.

PC MOUNTING



4P MODEL
SP MODEL (omit terminals B, C & D)
DP MODEL (omit terminals B & D)



3P MODEL


CONTACT MATERIAL

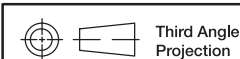
OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATING	
Q	SILVER ²	POWER	SWITCH-2.5 AMPS @ 125 V AC; 350 mA @ 125V DC (UL/CSA). CARRY-5 AMPS CONTINUOUS.
B	GOLD ¹	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC or DC MAX
G	GOLD OVER SILVER ³	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 VA MAX. @ 20 V AC or DC MAX. or SWITCH-2.5 AMPS @ 125 V AC; 350 mA @ 125 V DC (UL/CSA). CARRY-5 AMPS CONTINUOUS.

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

¹ MOVABLE CONTACTS: Copper alloy, with gold plate over nickel plate.
STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate.
² MOVABLE CONTACTS: Coin silver, silver plated.
STATIONARY CONTACTS & TERMINALS: Brass, silver plated (standard with all termination options).
³ MOVABLE CONTACTS: Coin silver, with gold plate over nickel plate over silver plate.
STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate over silver plate.

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

All models  with all options when ordered with 'G' or 'Q' contact material.
NOTE: 'G' contact material is equivalent to both 'B' and 'Q' contact materials.



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

A Series 1-4 Pole Rotary Switches

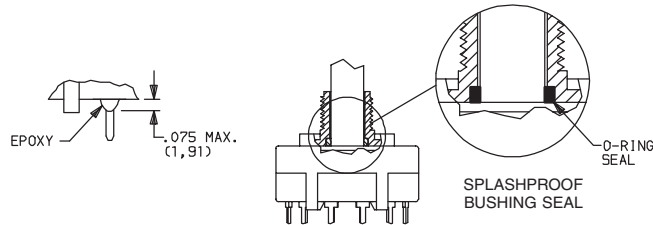
FUNCTION

NONE NO SEAL

E EPOXY SEAL

F SPLASHPROOF BUSHING SEAL

K EPOXY & SPLASHPROOF BUSHING SEAL



Setting Stops on A112 and A125 Models

The number of switch positions is adjustable on A112 and A125 models only by means of a stop ring provided with each switch. The number of positions is pre-set on all other models and the stop ring is factory installed.

To set stops: Turn shaft fully counter-clockwise and insert stop ring tab in desired hole. Install lockwasher and nut to retain stop ring for both PC and panel mounting. Switch without stop ring has 12 positions.

Soldering, Cleaning and Assembly Instructions for 'MC' Termination Option

Soldering

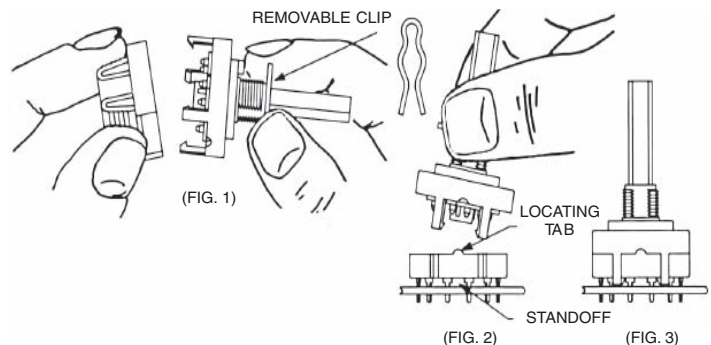
1. Insert switch base only into PC board.
2. Do not bend terminals.
3. Wave soldering recommended at 500F solder temperature.
4. Hand solder at 500F, 10 sec. max./terminal.

Cleaning

1. Flux clean using vapor degreaser and forced rinse or triple bath method.
2. Do not allow switch base to 'trap' fluids.
3. Freon TMC, TF or Methylene Chloride give excellent results.

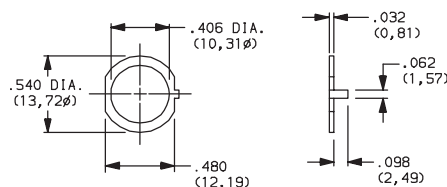
Switch Assembly

1. Hold housing/shaft assembly by housing. Remove protective cap by squeezing tabs and discard. (FIG. 1)
2. *Do not push on switch shaft. Detent mechanism will come apart.*
3. While holding switch housing, align locating tab on base with notch on housing and engage 4 housing latches in slots on base. (FIG. 2)
4. Push firmly on housing until latches snap in place.
5. Remove clip from shaft and discard. Assembly is complete. (FIG. 3)



AVAILABLE HARDWARE

Stop ring



PART NO.

767B00201

Material: Brass

Finish: Nickel plated



Third Angle
Projection

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



K

Rotary

RTA Series

1–4 Poles Coded Rotary Switches



Features/Benefits

- PCB or hand soldering versions
- Bushing mounting
- Multiple poles
- Decimal and hexadecimal codes
- Screwdriver slot or extended actuator
- RoHS Compliant

Typical Applications

- Appliances
- Electronic alarm systems
- Medical
- Building automation
- HVAC air conditioning

Electrical Data

SWITCHING MODE:

MAX. SWITCHING POWER

MAX. SWITCHING CURRENT:

MAX. CARRYING CURRENT:

NOMINAL VOLTAGE AT 50 Hz

CONTACT RESISTANCE:

DIELECTRIC STRENGTH AT 50 Hz

BETWEEN CONTACTS AND

GROUND TERMINALS:

INSULATION RESISTANCE BETWEEN

CONTACTS OR CONTACTS

AND FRAME (500 V ⇒):

NO. OF OPERATIONS:

BOUNCE:

Silver

BBM

5 VA

150 mA

5 A

60 V

< 150 mΩ

500 V r

10⁹ Ω

10,000

< 5 ms

Gold

BBM

0.5 VA

20 mA

1 A

25 V

< 150 mΩ

500 V r

10⁹ Ω

10,000

< 5 ms

Mechanical Data

MAX. NO. OF BANKS: 1.

OPERATING TORQUE: 5 Ncm±20%.

END STOP TORQUE: < 60 Ncm.

STOP: With/without or adjustable

MOUNTING: By fixed index 9.5 mm (0.374) of center, for bushing mount only

Materials

BUSHING/HOUSING: PETP Thermoplastic

STATIONARY CONTACTS & TERMINALS: Nickel Plated Brass with additional plating of Gold or Silver.

ROTOR: Gold or Silver plated Brass or PCB.

CODING PLATE: PA thermoplastic

ACTUATOR: Polysulfon thermoplastic

HARDWARE: Stop pin: Aluminum. Ball & Spring: Stainless steel.

Washer: PA. Nut: Brass.

Environmental Data

OPERATING TEMPERATURE: -20°C to + 70°C -20°C to + 70°C

STORAGE TEMPERATURE: -40°C to + 85°C -40°C to + 85°C

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-9 thru K-12. For additional options not shown in catalog, consult Customer Service Center.

Designation

RTA

Indexing

2 22.5 index (coded only)

3 30° index (12 positions max.)

4 36° index (10 positions max.)

Termination

P With PC Thru-hole

C With Solder Lugs

H Horizontal with PC Thru-hole

Switch Function

1W12 SP, 30° Index, 12 pos. no stop

1W10 SP, 36° Index, 10 pos. no stop

1S02 SP, 30° /36° Index, 2 pos.

1S03 SP, 30° /36° Index, 3 pos.

1S04 SP, 30° /36° Index, 4 pos.

1S05 SP, 30° /36° Index, 5 pos.

1S06 SP, 30° /36° Index, 6 pos.

1S07 SP, 30° /36° Index, 7 pos.

1S08 SP, 30° /36° Index, 8 pos.

1S09 SP, 30° /36° Index, 9 pos.

1S10 SP, 30° /36° Index, 10 pos.

1S11 SP, 30° Index, 11 pos.

1S12 SP, 30° Index, 12 pos.

2S02 DP, 30° /36° Index, 2 pos.

2S03 DP, 30° /36° Index, 3 pos.

2S04 DP, 30° /36° Index, 4 pos.

2S05 DP, 30° /36° Index, 5 pos.

2S06 DP, 30° Index, 6 pos.

3S02 3P, 30° /36° Index, 2 pos.

Mounting Style

W Without bushing

R 3/8-32 Threaded Bushing

M M10x.75 Metric Threaded Bushing

A 3/8-32 Threaded Bushing with Offset Bracket

B M10x.75 Metric Threaded Bushing with Offset Bracket

Contact Material

S Silver plated, matte-tin terminal

P Gold plated, matte-tin terminal

Actuator (max.)

25N .984 (25,0) with screwdriver slot

50N 1.97 (50,0) with screwdriver slot

FLS Flush shaft with screwdriver slot and position indicator

25F .984 (25,0) Shaft with flat

06F .236 (6,0) Shaft with flat

3/8-32 Threaded Bushing with Straight Bracket

M10x.75 Metric Threaded Bushing with Straight Bracket

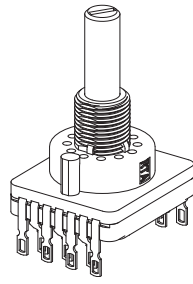


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

RTA Series 1-4 Poles Coded Rotary Switches

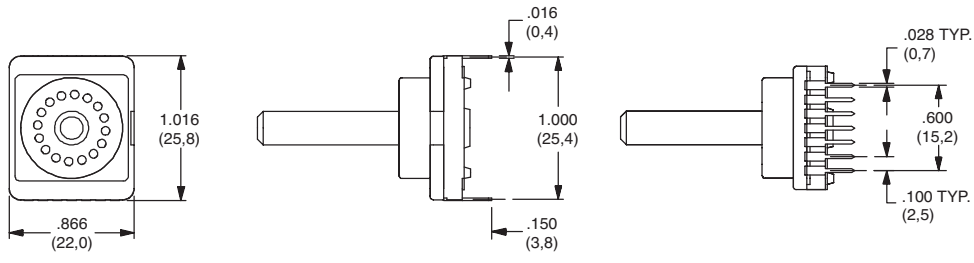
DESIGNATION 

RTA

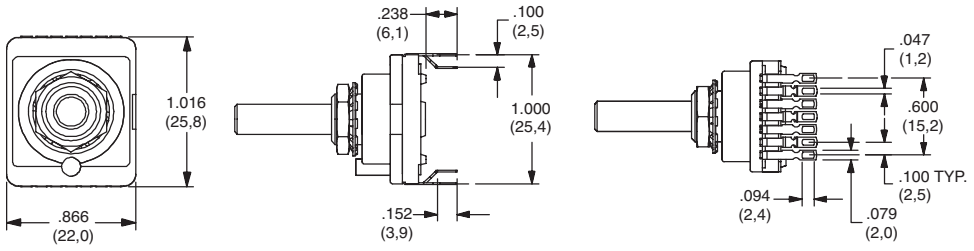


TERMINATION 

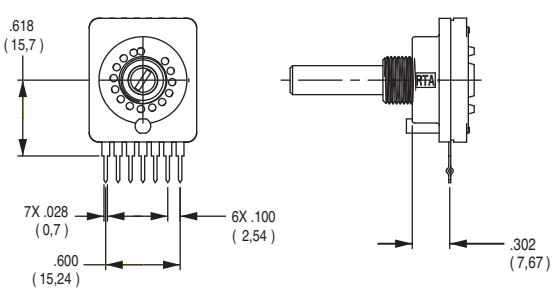
P WITH PC PINS



C WITH SOLDER LUGS



H Horizontal with PC Thru-hole

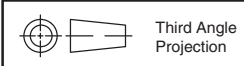


Note: "H" termination only available with the following options:
1. With A or B mounting styles
2. 36° degree indexing
3. Up to 5 positions max

INDEXING 

- 2** 22.5 index, 16 positions max.
- 3** 30 index, 12 positions max.
- 4** 36 index, 10 positions max.

Both commons must be connected by user to ground.



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

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K

Rotary

RTA Series

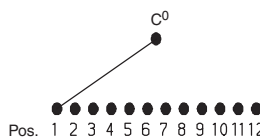
1-4 Poles Coded Rotary Switches

SWITCH FUNCTION

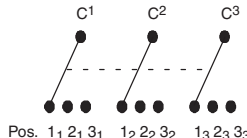


NO. POLES	MODEL NO.	SWITCH FUNCTION	INDEX
SP	1W12	12 Positions No Stop	30°
	1W10	10 Positions No Stop	36°
	1S02	2 Positions	30°/36°
	1S03	3 Positions	30°/36°
	1S05	5 Positions	30°/36°
	1S06	6 Positions	30°/36°
	1S08	8 Positions	30°/36°
	1S09	9 Positions	30°/36°
	1S10	10 Positions	30°/36°
	1S11	11 Positions	30°
	1S12	12 Positions	30°

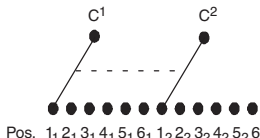
SP MODELS SCHEMATIC



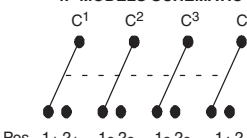
3P MODELS SCHEMATIC



DP MODELS SCHEMATIC



4P MODELS SCHEMATIC



NO. POLES	MODEL NO.	SWITCH FUNCTION	INDEX
DP	2W05	5 Positions No Stop	30°/36°
	2W06	6 Positions No Stop	30°
	2S02	2 Positions	30°/36°
	2S03	3 Positions	30°/36°
	2S04	4 Positions	30°/36°
	2S05	5 Positions	30°/36°
3P	3S02	2 Positions	30°/36°
	3S03	3 Positions	30°/36°
4P	4S02	2 Positions	30°/36°

MODEL NO.	SWITCH FUNCTION	INDEX
EW10	Direct + complement, No stop	36°
EW12	Direct + complement, No stop	30°
DW16	Direct, No stop	22.5°
ES__	Direct + complement, with stop (specify stop position)	30° & 36°
DS__	Direct, with stop (specify stop position)	22.5°

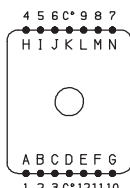
22.5°	30°	36°		Pos.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Term.	Term.	Term.																		
E,J	M,N	L,N		C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
F,I	H	D		1		•		•		•		•		•		•		•		•
D,K	D	B		2			•	•			•	•			•	•			•	•
A,N	A	I		4					•	•	•	•					•	•	•	•
B	J	J		8									•	•	•	•	•	•	•	•
—	C	K		1	•		•		•		•		•		•		•		•	
—	K	H		2	•	•			•	•			•	•		•	•			
—	B	A		4	•	•	•	•					•	•	•					
—	I	C		8	•	•	•	•	•	•	•	•								

Indexing Option Code 2, 22.5 INDEXING ANGLE PCB LAYOUT



BCD ONLY

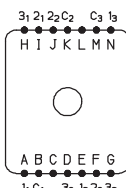
Indexing Option Code 3, 30 INDEXING ANGLE PCB LAYOUT



1 POLE



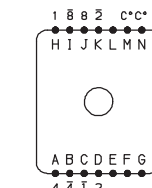
2 POLES



3 POLES



4 POLES



BCD + COMPLEMENTS

Indexing Option Code 4, 36 INDEXING ANGLE PCB LAYOUT



1 POLE



2 POLES



3 POLES



4 POLES



BCD + COMPLEMENTS

NOTE: Layout view from component side.

Common terminals that are in locations A-G are not connected to common terminals that are in locations H-N. For 7-12 position output customer must tie these commons together.



Third Angle Projection

Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change

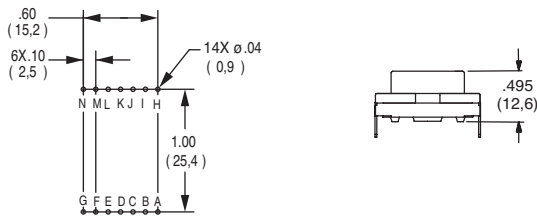


RTA Series 1-4 Poles Coded Rotary Switches

MOUNTING STYLE

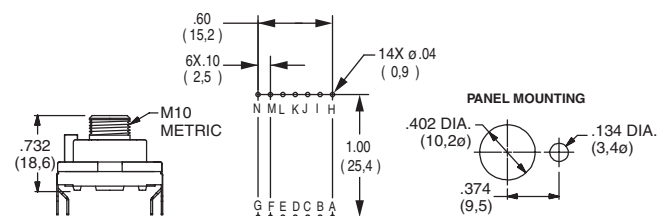


W WITHOUT BUSHING



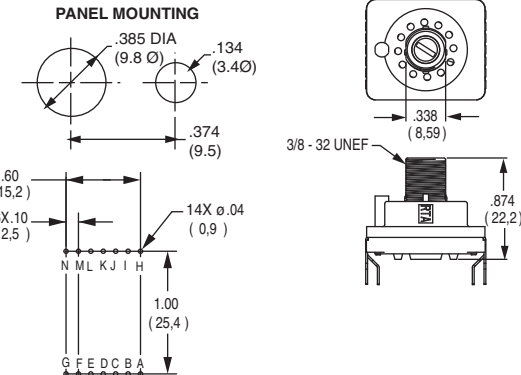
Note: W mounting style not available with H termination.

M M10 x .75 MERTIC THREADED BUSHING



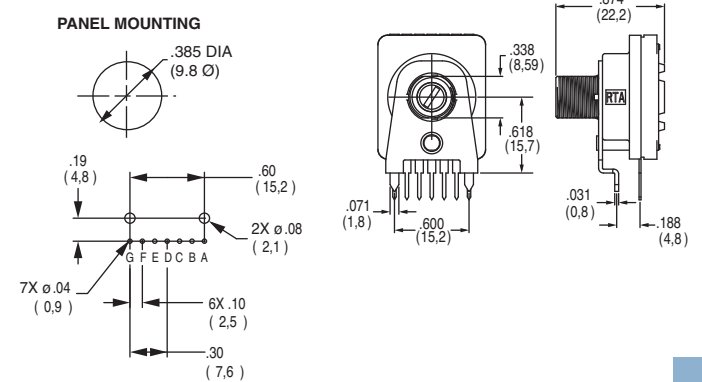
Note: M mounting style not available with H termination.

R 3/8-32 THREADED BUSHING



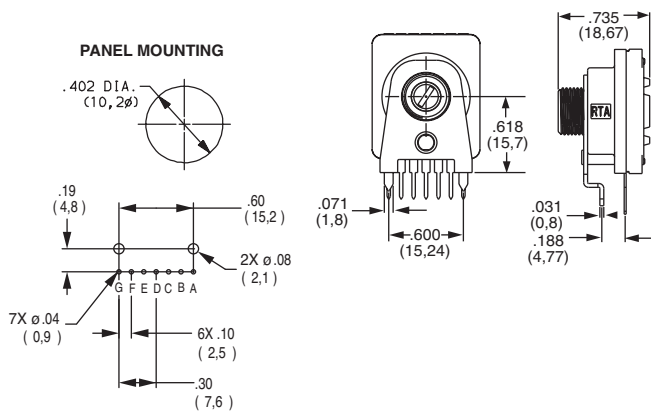
Note: R mounting style not available with H termination.

A 3/8-32 THREADED BUSHING WITH BRACKET



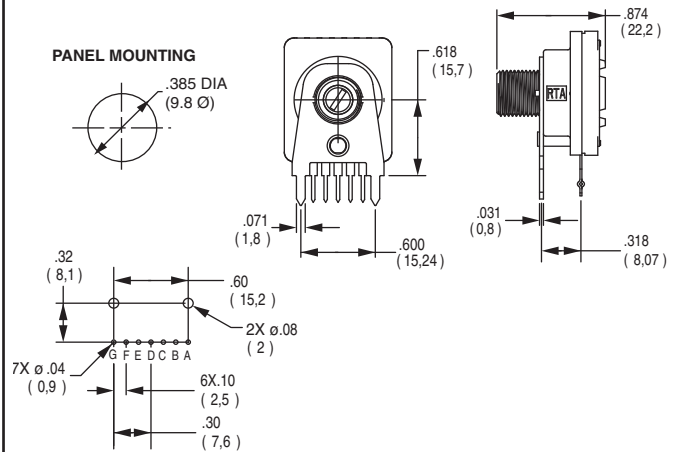
Note: A mounting style only available with H termination.

B M10 x .75 METRIC THREADED BUSHING WITH BRACKET

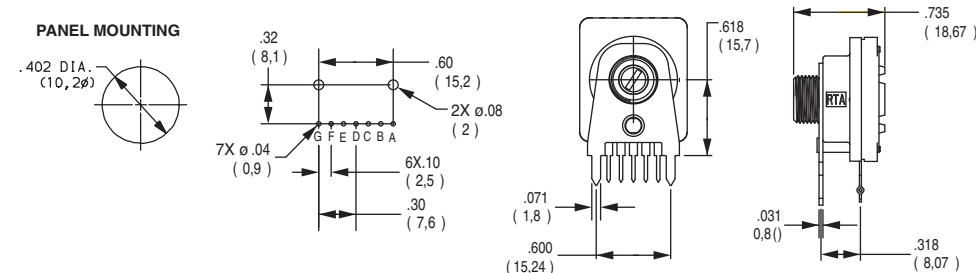


Note: B mounting style only available with H termination.

C 3/8-32 THREADED BUSHING WITH STRAIGHT BRACKET



D M10 x .75 METRIC THREADED BUSHING WITH STRAIGHT BRACKET



Third Angle
Projection

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

C&K



K

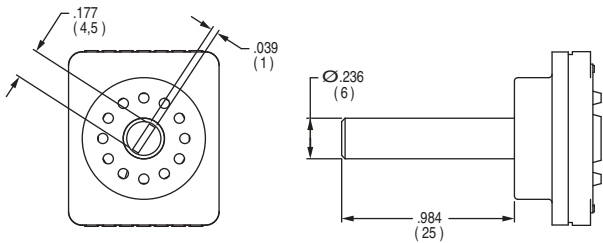
Rotary

RTA Series

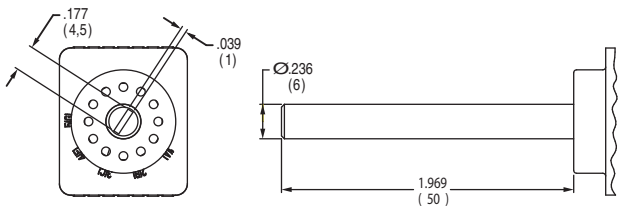
1-4 Poles Coded Rotary Switches

ACTUATOR

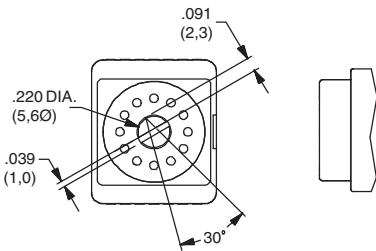
25N .984 (25,0) WITH SCREWDRIVER SLOT



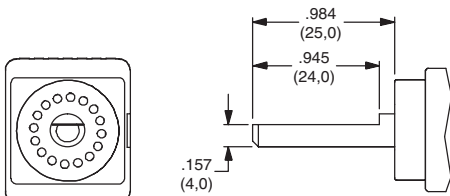
50N 1.97 (50,0) WITH SCREWDRIVER SLOT



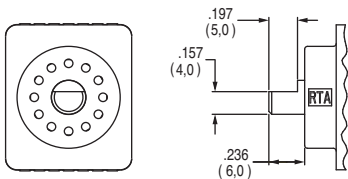
FLS FLUSH SHAFT WITH SCREWDRIVER SLOT AND POSITION INDICATOR



25F .984 (25,0) SHAFT WITH FLAT



06F .236 (6,0) SHAFT WITH FLAT



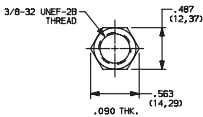
CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATING	
S	SILVER	LOW LEVEL/DRY CIRCUIT	SWITCH: 150 mA MAXIMUM, 60 V NOMINAL. POWER: 5 VA MAXIMUM. CARRY-5 AMPS MAXIMUM.
P	GOLD	LOW LEVEL/DRY CIRCUIT OR POWER	SWITCH: 20 mA MAXIMUM, 25 V NOMINAL. POWER: 0.5 VA MAXIMUM. CARRY: 1 AMP MAXIMUM.

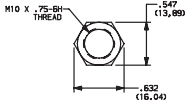
* Note: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications.

AVAILABLE HARDWARE

Mounting Nuts



PART NO.
472706201
Standard



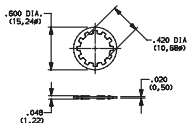
PART NO.
495100201
Metric

Stop pins



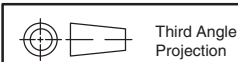
PART NO.
Y200300200P

Lockwasher



PART NO.
472800202

NOTE: Additional nuts and lockwashers available separately, see section "Technical Data and Additional Hardware".



Third Angle
Projection

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



M Series Half-inch Rotary Switches



Features/Benefits

- **Multi-pole and multi-positions**
- **Panel and PCB mounting**
- **Stainless steel actuator**
- **Non-shorting contacts**
- **RoHS Compliant**
- **IP67 (F option only)**

Typical Applications

- **Test equipment**
- **Industrial equipment**
- **Medical equipment**



Models Available

Specifications

CONTACT RATING: Q contact material: Carry-6 AMPS continuous. Switch-250 mA max. @ 125 V AC or 28 DC. Non-shorting contacts standard. See page L-16 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at 150 mA, 125 V AC or 28 DC.

CONTACT RESISTANCE: Below 20 mΩ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10¹⁰ Ω min.

DIELECTRIC STRENGTH: 600 Vrms min. @ sea level.

OPERATING & STORAGE TEMPERATURE: -30°C to 85°C.

OPERATING TORQUE: 4-7 ounces-inches typ. initial.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

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

Materials

HOUSING AND BUSHING: Zinc alloy, bright zinc plated, with clear chromate finish.

ACTUATOR: Zinc alloy, nickel plated or stainless steel.

BASE: Diallylphthalate (DAP) or melamine phenolic, with insert molded terminals.

ROTOR: Glass filled polyester (UL 94V-0).

MOVABLE CONTACTS:
Non-shorting: Q contact material: Copper alloy, silver plated. See page K-16 for additional contact materials.

STATIONARY CONTACT & ALL TERMINALS: Q contact material: Copper alloy, silver plated. All terminals insert molded. All terminals present regardless of number of switch positions. See page K-16 for additional contact materials.

CONTACT SPRING: Music wire, phosphate coated.

STOP PIN: Stainless steel.

STOP RING: Brass.

HARDWARE: Nut: Brass, nickel plated; Lockwasher: Steel, nickel plated.

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-14 thru K-18. For additional options not shown in catalog, consult Customer Service Center.

Switch Function	Actuator & Bushing	Short/Non-short	Terminations	Contact Material	Seal
MA00 SP, 10 pos., 36°	L1 .650" long, flatted	N Non-shorting contacts	Z Solder lug	Q Silver	D No seal
MA02 SP, 2 pos., 36°	L2 Screwdriver slot, flush		C PC Thru-hole	G Gold over silver	F Splashproof shaft & panel seal (IP67)
MA03 SP, 3 pos., 36°	L3 .650" long, round				
MA04 SP, 4 pos., 36°	S1 .650" long, flatted				
MA05 SP, 5 pos., 36°	S2 Screwdriver slot, flush				
MA06 SP, 6 pos., 36°	S3 .650" long, round				
MA10 SP, 10 pos., 36°	S6 .785" long, slot				
MB00 DP, 5 pos., 36°					
MB03 DP, 3 pos., 36°					
MB04 DP, 4 pos., 36°					
MB05 DP, 5 pos., 36°					
MC00 SP, 12 pos., 30°					
MC03 SP, 3 pos., 30°					
MC07 SP, 7 pos., 30°					
MC12 SP, 12 pos., 30°					
MD00 DP, 6 pos., 30°					
MD06 DP, 6 pos., 30°					
ME00 SP, 10 pos., 36°					
ME04 SP, 4 pos., 36°					
MF00 DP, 5 pos., 36°					
MG00 SP, 12 pos., 30°					
MH00 DP, 6 pos., 30°					



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



K

Rotary

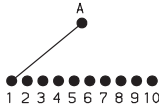
M Series

Half-inch Rotary Switches

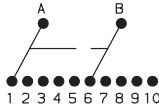
SWITCH FUNCTION

36° INDEXING			
NO. POLES	MODEL NO. WITH STOP PINS	MODEL NO. WITH STOP RINGS	SWITCH FUNCTION
SP	MA00	ME00	10 Positions No Stops
	MA02	—	2 Positions
	MA03	—	3 Positions
	MA04	ME04	4 Positions
	MA05	—	5 Positions
	MA06	—	6 Positions
	MA10	—	10 Positions
DP	MB00	MF00	5 Positions No Stops
	MB03	—	3 Positions
	MB04	—	4 Positions
	MB05	—	5 Positions

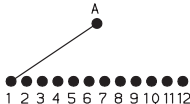
SP MODELS 36° INDEXING SCHEMATIC



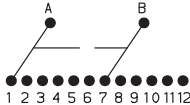
DP MODELS 36° INDEXING SCHEMATIC



SP MODELS 30° INDEXING SCHEMATIC



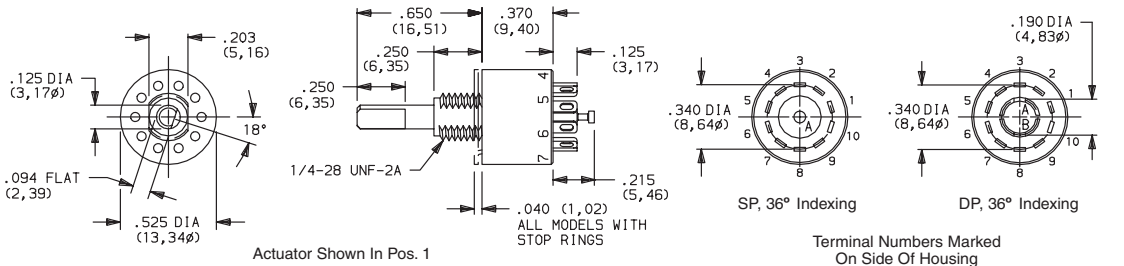
DP MODELS 30° INDEXING SCHEMATIC



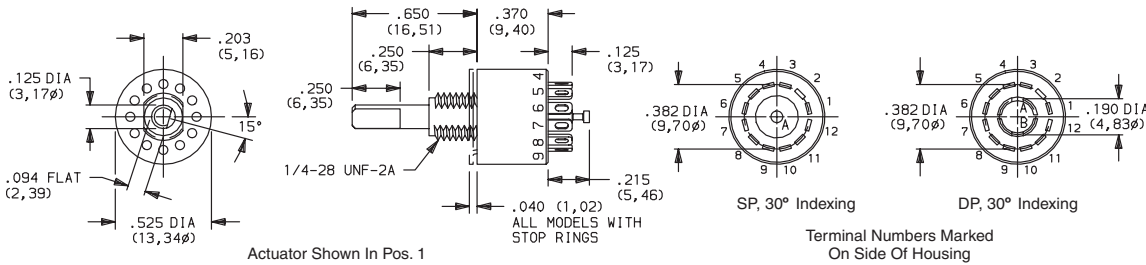
30° INDEXING			
NO. POLES	MODEL NO. WITH STOP PINS	MODEL NO. WITH STOP RINGS	SWITCH FUNCTION
SP	MC00	MG00	12 Positions No Stops
	MC03	—	3 Positions
	MC07	—	7 Positions
	MC12	—	12 Positions
DP	MD00	MH00	6 Positions No Stops
	MD06	—	6 Positions

All models  with all options when ordered with S1-SB stainless steel actuator options.

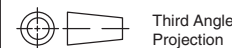
NOTE: Number of positions or stops preset at factory (NOTE: MX00 models have full 360 rotation with no stops. Stop pins or stop rings supplied for user-selectable stops, see above). All terminals present regardless of number of switch positions. Hardware is available separately, see section "Technical Data and Additional Hardware".



Part number shown: MA00L1NZQD



Part number shown: MC00L1NZQD



Third Angle Projection

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

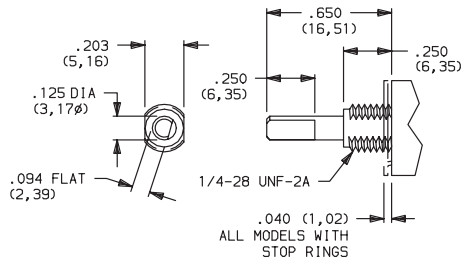


M Series Half-inch Rotary Switches

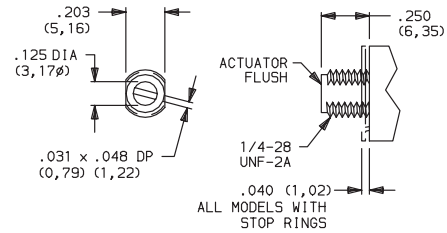
ACTUATOR (ZINC ALLOY)



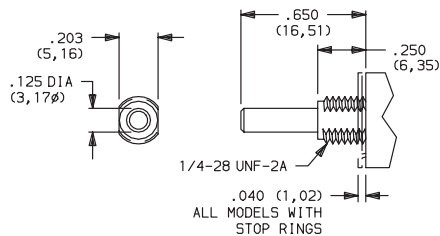
L1 .650" LONG, FLATTED



L2 SCREWDRIVER SLOT, FLUSH



L3 .650" LONG, ROUND

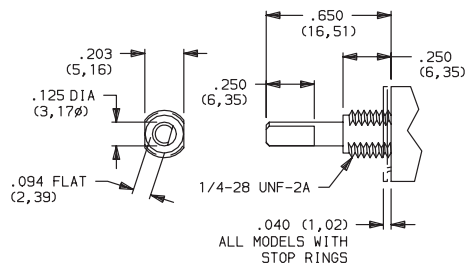


All actuators shown in pos. 1

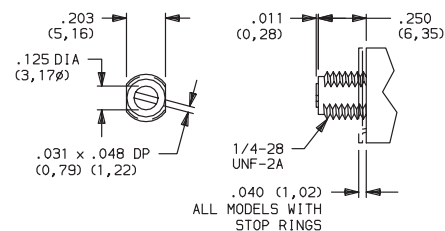
ACTUATOR (STAINLESS STEEL)



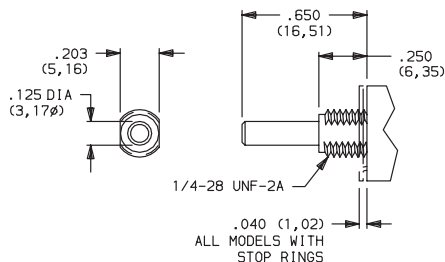
S1 .650" LONG, FLATTED



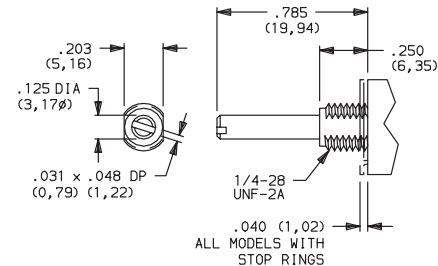
S2 SCREWDRIVER SLOT, FLUSH



S3 .650" LONG, ROUND



S6 .785" LONG, SLOT



All actuators shown in pos. 1

All models  when ordered with stainless steel actuators.



Third Angle
Projection



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



K

Rotary

M Series Half-inch Rotary Switches

SHORTING/NON-SHORTING CONTACTS



N NON-SHORTING CONTACTS

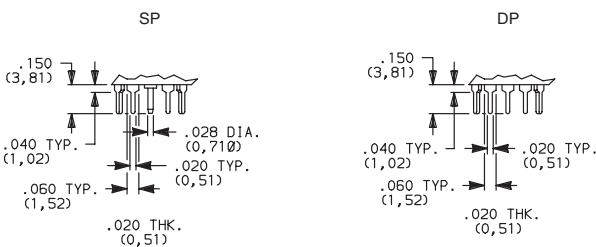
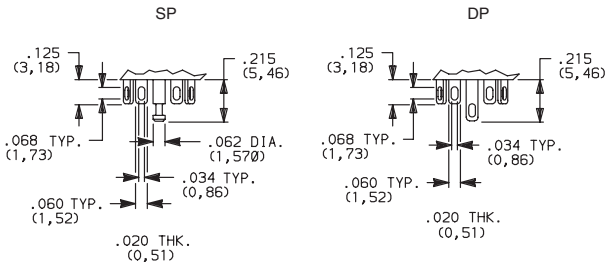
Break-before-make

TERMINATIONS



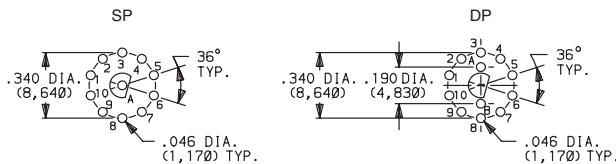
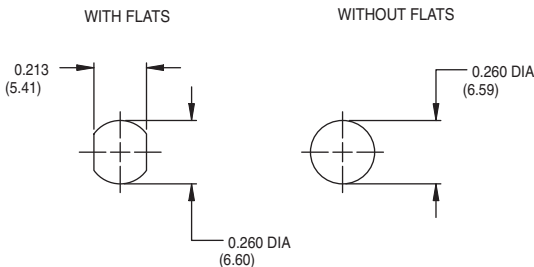
Z SOLDER LUG

C PC THRU-HOLE

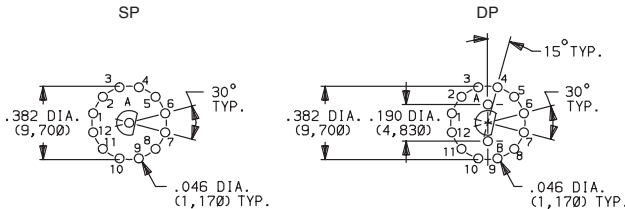


PANEL MOUNTING

PC MOUNTING 36° INDEXING



PC MOUNTING 30° INDEXING



Hardware: All models, one mounting nut and lockwasher supplied standard. MA00 thru MD00 models: two stop pins and adhesive mylar washer supplied. ME00 thru MH00 models: two stop rings supplied. Hardware is available separately, see section "Technical Data and Additional Hardware".

* Will withstand 12 in. - lbs of torque with no distortion.

NOTE: Q contact material standard. Terminal numbers marked on side of housing. All terminals insert molded. All terminals present regardless of number of switch positions.

Actuators and schematics shown in pos. 1.

CONTACT MATERIAL



OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATING	
Q	SILVER ^{1, 2}	SILVER ²	POWER	CARRY: 6 AMPS CONTINUOUS. SWITCH: 250 mA @ 125 V AC or 28 V DC.
G	GOLD OVER SILVER ^{3, 4}	GOLD ⁴	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 VA MAX. @ 20 V AC or DC MAX. or, CARRY: 6 AMPS CONTINUOUS. SWITCH: 250 mA @ 125 V AC or 28 V DC.

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


¹ MOVABLE CONTACTS: Non-shortng: Copper alloy, silver plated.
Shortng: Zinc alloy, silver plated.

² STATIONARY CONTACTS & ALL TERMINALS: Copper alloy, silver plated.

³ MOVABLE CONTACTS: Non-shortng: Copper alloy, with gold plate over nickel plate, over silver plate.
Shortng: Zinc alloy, with gold plate

⁴ STATIONARY CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate over silver plate.

NOTE: Any models supplied with Q, G contact material are RoHS compliant.

All models  when ordered with S1-S6 stainless steel actuator options.



Third Angle
Projection

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

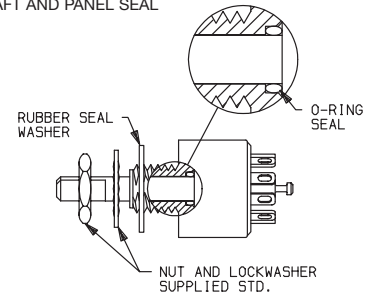


M Series Half-inch Rotary Switches

SEAL 

D NO EPOXY SEAL

F SPLASHPROOF SHAFT AND PANEL SEAL
IP67 approved



Setting Stops With Stop Pins

MA00, MB00, MC00 & MD00 Models Only:

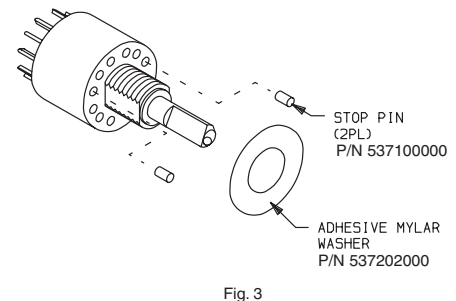
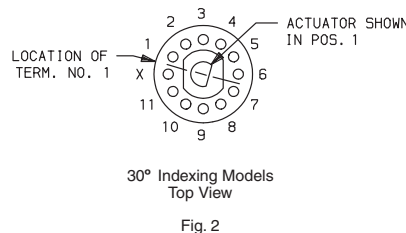
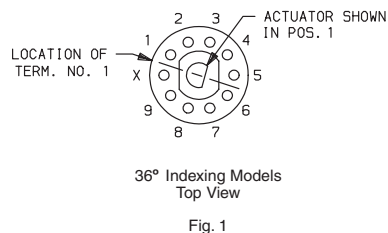
The number of switch positions or stops are adjustable by means of stop pins provided with each switch. Switches are normally shipped with stop pins and hardware in bulk, not installed. Without stop pins, switches have full 360° rotation and no stops. Note that all two pole models begin to repeat when actuated 180° or more.

To set stops, refer to figures 1 & 2. Orient switch so that terminal no. 1 is as shown. Turn actuator to position 1, using flats on bushing and terminal no. 1 as reference. Install CCW stop pin in hole designated 'X'. Install second stop pin in hole number corresponding to the number of positions desired. Note that two pole models will begin to repeat when actuated 180° or more. To retain stop pins, use adhesive mylar washer included; see figure 3.

All models except MX00 models have number of switch positions or stops pre-set at factory and are not adjustable.

Hardware:

Two stop pins, mounting nut, and lockwasher supplied standard.



Setting Stops With Stop Rings

ME00, MF00, MG00 & MH00 Models Only:

The number of switch positions or stops are adjustable by means of stop rings provided with each switch. These models are normally shipped with stop rings and hardware in bulk, not installed. Without stop rings, switches have full 360° rotation and no stops. Note that all two pole models begin to repeat when actuated 180° or more.

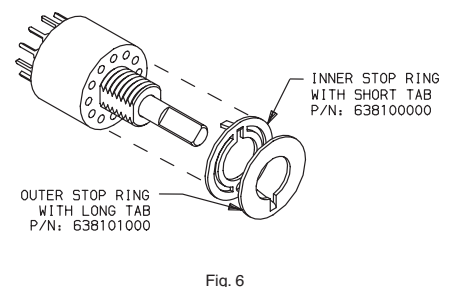
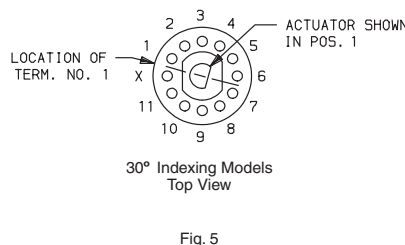
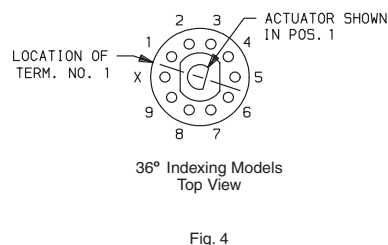
To set stops refer to figures 4 & 5. Orient switch so that terminal no. 1 is as shown. Turn actuator to pos. 1 using flats on bushing and terminal no. 1 as reference. See figure 6 and install inner stop ring with short tab in hole designated 'X'. Install outer stop ring with long tab in hole number corresponding to the number of positions desired. Note that all two pole models begin to repeat when actuated 180° or more. Use mounting nut and lockwasher to retain stop rings.

All MEXX, MFXX, MGXX & MHXX Models (Except MX00 models):

Number of switch positions or stops are preset at factory, but are user adjustable.

Hardware:

Two stop rings, mounting nut and lockwasher supplied standard.



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 L-36 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.

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-36 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 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-19 and K-20. For additional options not shown in catalog, consult Customer Service Center.

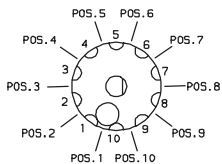
<div>Switch Function</div> <div><div>R100</div> SP, 36° Index, 10 pos. no stops</div> <div><div>R103</div> SP, 36° Index, 3 pos.</div> <div><div>R104</div> SP, 36° Index, 4 pos.</div> <div><div>R108</div> SP, 36° Index, 8 pos.</div> <div><div>R203</div> DP, 36° Index, 3 pos.</div> <div><div>R204</div>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

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
	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

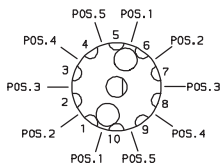
SP MODELS 36° INDEXING SCHEMATIC



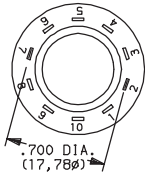
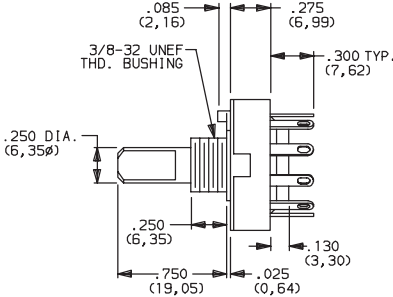
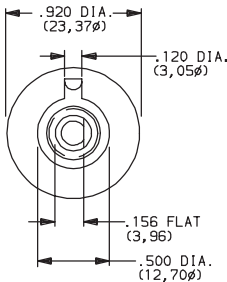
DP MODELS 36° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
DP	R203	3 Position	10-1-2-3,5-6-7-8
	R204	4 Position	All Terminals
	R205	5 Position	All Terminals

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

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.



TERM. NOS.
MOLDED ON HOUSING

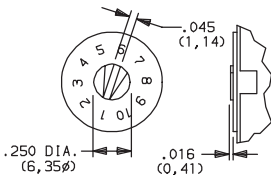
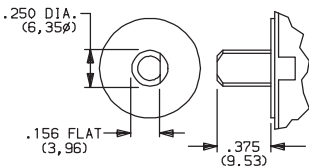
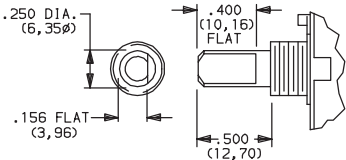
Part number show: R10007RR03Q

ACTUATOR

07 .500" HIGH WITH .156" FLAT

05 .375" HIGH WITH .156" FLAT

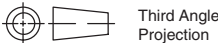
15 SCREWDRIVER SLOT



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.



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



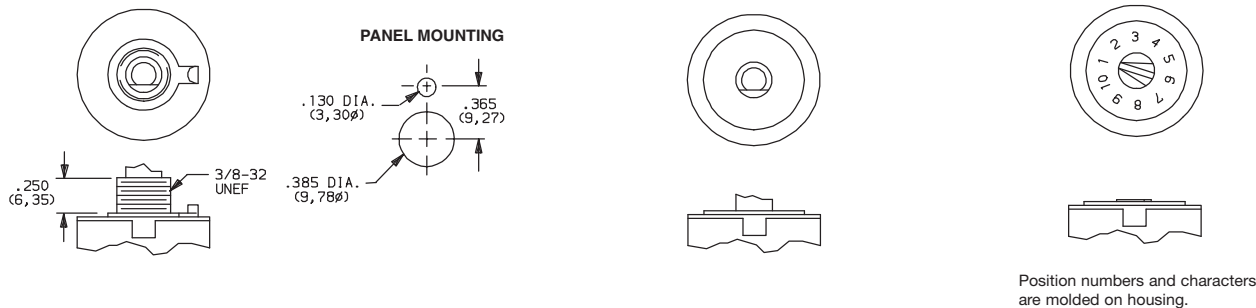
K

Rotary

R Series ROTA-SLIDE® Rotary Switches

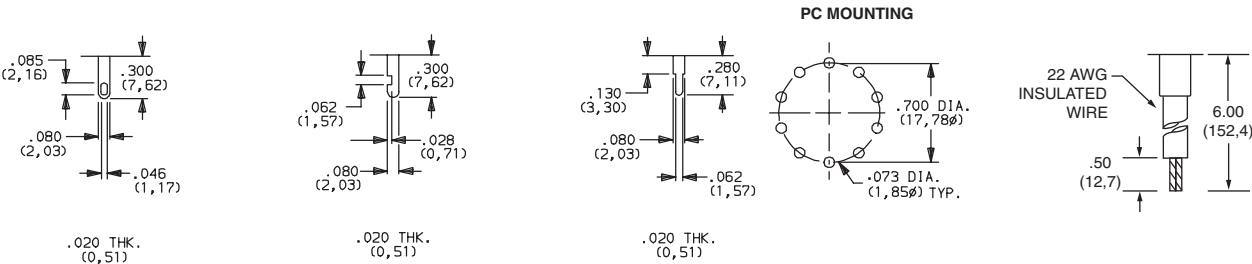
MOUNTING STYLE

- RR**
3/8-32 THREADED BUSHING
- RN**
PC WITHOUT BUSHING
- RS**
PC SCREWDRIVER SLOT WITHOUT BUSHING



TERMINATIONS

- 03**
SOLDER LUG WITH HOLE
- 01**
SOLDER LUG WITH NOTCH
- 02**
PC THRU-HOLE
- WC**
WIRE LEAD



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.

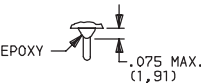
² CONTACTS & TERMINALS: Copper, silver plated. (Standard with all termination options.)

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

All models **C&K** **US** with all options when ordered with 'Q' contact material.

SEAL

- NONE**
NO SEAL
- E**
EPOXY SEAL



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

F Series Miniature ROTA-SLIDE® Rotary Switches

Features/Benefits

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

Typical Applications

- Small appliances
- Testing fixtures
- Safety equipment



Models Available

Specifications

CONTACT RATING: Q contact material: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA). See page L-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: 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

Materials

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

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

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

TERMINALS: Q contact material: Copper, silver plated. See page K-39 for additional contact materials.

CONTACT SPRING: Music wire or stainless steel.

MOUNTING NUT: Brass, nickel 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 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-22 thru K-24. For additional options not shown in catalog, consult Customer Service Center.

Switch Function	Actuator	Mounting Style	Terminations	Contact Material	Seal
FA05 SP, 90° Index, 3 pos.	15 Screwdriver slot without bushing	RN PC	02 PC Thru-hole	Q Silver	NONE No seal
F103 SP, 45° Index, 3 pos.	08 .585" high with .156" flat	RS 5/16-32 threaded bushing	WC Wire lead	B Gold	E Epoxy seal
F203 DP, 45° Index, 3 pos.					
FA01 SPDT, 90° Index					
FC03 SP, W/Common 90° Index, 3 pos.					



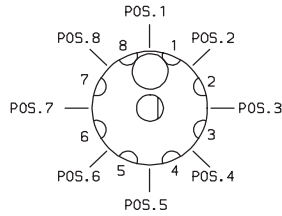
K

Rotary

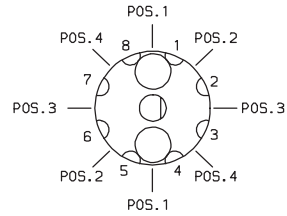
F Series Miniature ROTA-SLIDE® Rotary Switches

45° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
SP	F103	3 Position	8-1-2-3*
DP	F203	3 Position	All Terminals

45° INDEXING SCHEMATICS



F1XX MODELS



F2XX MODELS

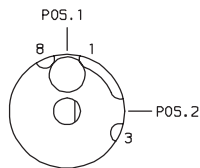
Break-before-make contacts. Terminal numbers are molded on bottom of housing. Actuators are shown in position 1.

F1XX, F2XX models: No common terminal is present. Switching function is provided by movable contacts shorting adjacent pairs of stationary contacts.

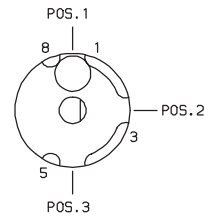
NOTE: *Switches with '02' PC terminations have additional terminal no. 5 as switch support only. This terminal is not connected electrically inside switch.

90° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
SP	FA01	SPDT	8-1-3
	FA05	3 Position	8-1-3-5
SP WITH COMMON	FC03	3 Position	C-1,C-2,C-3

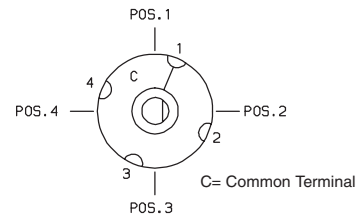
90° INDEXING SCHEMATICS



FA01 MODEL



FA05 MODEL



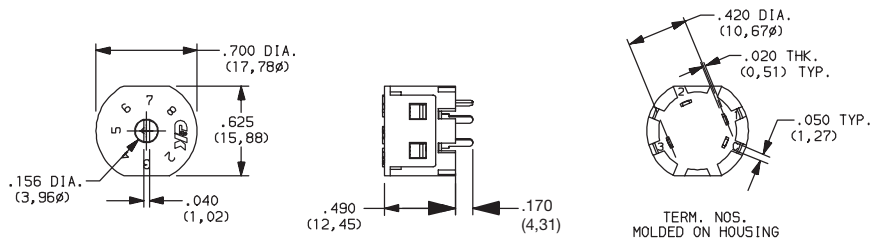
FCXX MODEL

Break-before-make contacts. Terminal numbers are molded on bottom of housing. Actuators are shown in position 1.

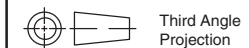
FAXX models: No common terminal is present. Switching function is provided by movable contacts shorting adjacent pairs of stationary contacts.

FCXX models: Common terminal is present.

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



Part number show: FC0315RN02Q



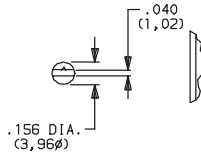
Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change

F Series Miniature ROTA-SLIDE® Rotary Switches

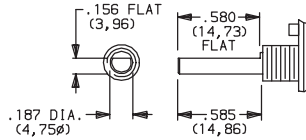
ACTUATOR

15 SCREWDRIVER SLOT WITHOUT BUSHING



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

08 .585" HIGH WITH .156" FLA



Must be ordered with 'RS' mounting style.

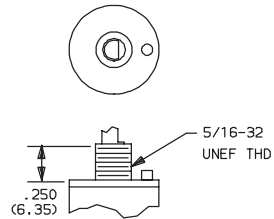
MOUNTING STYLE

RN PC



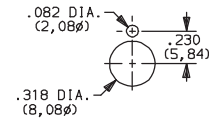
PC mount, no bushing, position numbers molded standard. Shown with '15' actuator; not available with '08' actuator or FCXX models.

RS 5/16-32 THREADED BUSHING



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

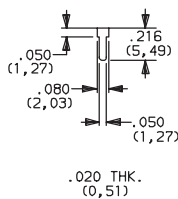
PANEL MOUNTING



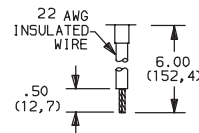
5/16 IN. BUSHING

TERMINATIONS

02 PC THRU-HOLE



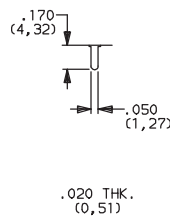
WC WIRE LEAD



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

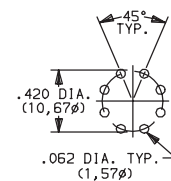
F1XX, F2XX & FAXX Models

02 PC THRU-HOLE



FCXX Models

PC MOUNTING



Third Angle
Projection

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



K

Rotary

F Series Miniature ROTA-SLIDE® Rotary Switches

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATING	
Q	SILVER ²	POWER	4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (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.

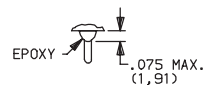
² CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).

NOTE: Any models supplied with Q or B contact material are RoHS compliant.

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

NONE NO SEAL

E EPOXY SEAL

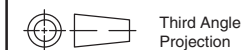


Not available on FCXX models.



K

Rotary



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

Power ROTA-SLIDE® Rotary Switches

Features/Benefits

- ***Multi-pole and multi-position***
- ***Positive detent***
- ***Power switching up to 12 AMPS***
- ***Value added capability***
- ***RoHS Compliant***



Models Available

Typical Applications

- **Small appliances**
- **Industrial equipment**
- **Elevators**



Specifications

CONTACT RATING: 12 Amps @ 125 V AC; 6 AMPS @ 250 V AC;
1 AMP @ 125 V DC (UL/CSA).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

INSULATION RESISTANCE: $10^9 \Omega \text{ min.}$

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

INDEXING: 45°-one contact models, 8 positions max.; two contact models, 4 positions 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: Copper, silver plated.

CONTACT SPRING: Music wire or stainless steel.

MOUNTING NUT: Steel, zinc plated.

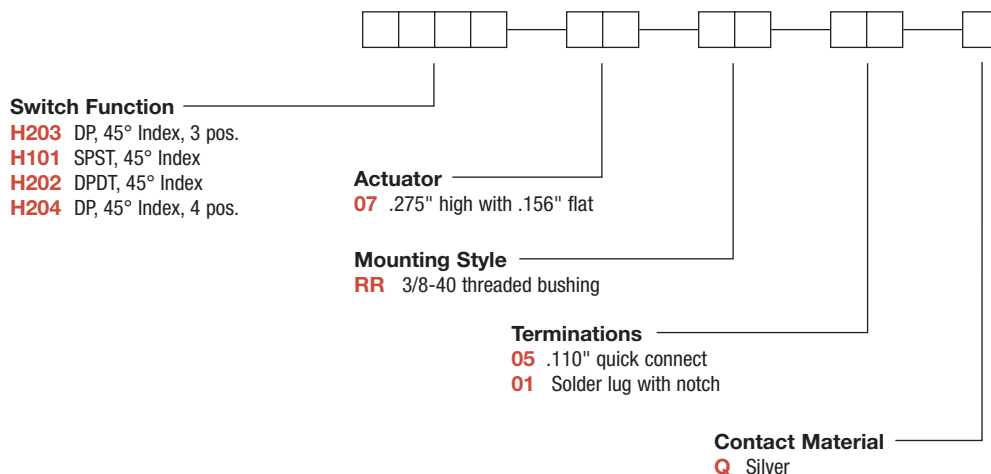
TERMINAL SEAL: Epoxy.

NOTE: Any models supplied with Q, B or G 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 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-26 thru K-27. For additional options not shown in catalog, consult Customer Service Center.



K

Rotary



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

H Series

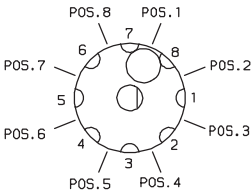
Power ROTA-SLIDE® Rotary Switches

SWITCH FUNCTION

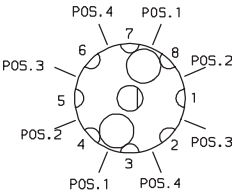
SP MODELS 45° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
SP	H101	SPST	8-1

DP MODELS 45° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
DP	H202	DPDT	7-8-1, 3-4-5
	H203	3 Position	All Terminals
	H204	4 Position	All Terminals

SP MODELS 45° INDEXING SCHEMATIC



DP MODELS 45° INDEXING SCHEMATIC



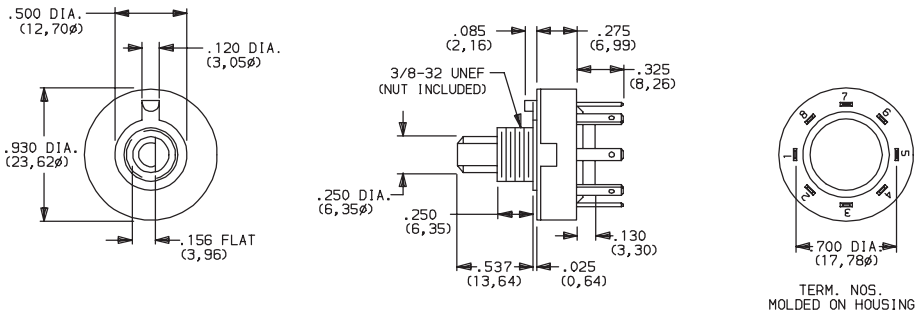
NOTE: Break-before-make contacts. Terminal numbers are molded on bottom of housing. Actuators and contacts are shown in position 1. No common terminal is present. Switching function is provided by movable contacts shorting adjacent pairs of stationary contacts.

All models  with all options.



K

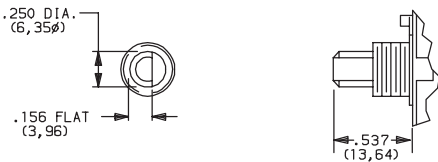
Rotary



Part number shown: H10107RR05Q

ACTUATOR

07 .275" HIGH WITH .156" FLAT



Third Angle Projection

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



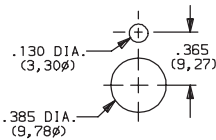
H Series Power ROTA-SLIDE® Rotary Switches

MOUNTING STYLE

RR 3/8-32 THREADED BUSHING



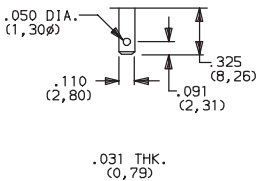
PANEL MOUNTING



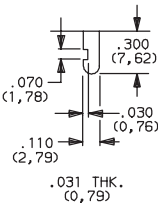
Mounting nut included (part number 175000100).

TERMINATIONS

05 SOLDER LUG WITH HOLE



01 SOLDER LUG WITH NOTCH



Not available on models with 90° indexing.

CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATING	
		POWER	
Q	SILVER ¹		12 AMPS @ 125 V AC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC.

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

¹ CONTACTS & TERMINALS: Copper, silver plated.

NOTE: Any models supplied with Q contact material are RoHS compliant.

All models **C&K** with all options.



Third Angle Projection

Dimensions are shown: Inch (mm)

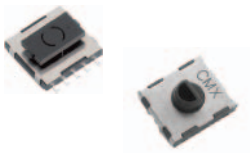
Specifications and dimensions subject to change

K

Rotary

RW Series

Sub-miniature Rotary Switches



Features/Benefits

- 8 and 10 positions
- SMT version
- Subminiature design

Typical Applications

- Digital cameras
- Audio & visual equipment
- Consumer electronics
- Selector dial interface

PART NUMBER	PACKAGING
RW-108 NS RT	800 pieces per reel

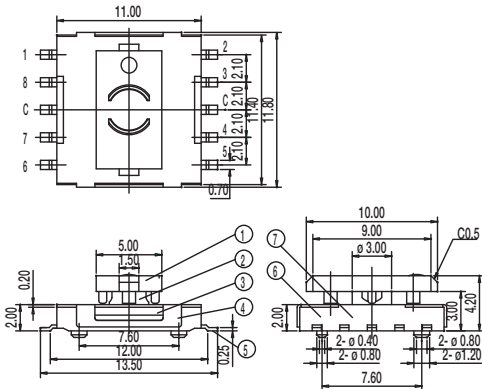


Specifications

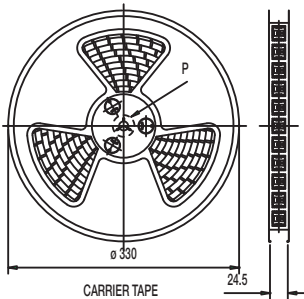
CONTACT ARRANGEMENT: 1 Pole 8 Position
CONTACT RATING: 0.1 A @ 16 V DC.
ELECTRICAL LIFE: 10,000 cycles.
INITIAL CONTACT RESISTANCE: 100 mΩ max.
INSULATION RESISTANCE: 10M Ω min.
DIELECTRIC STRENGTH: 100V (50-60 Hz).
TWIST FORCE: 150 ± 100 gf
OPERATING TEMPERATURE: -20°C to 70°C

Materials

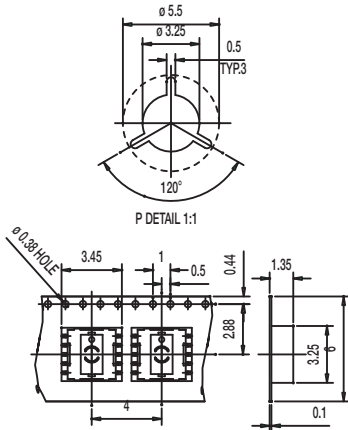
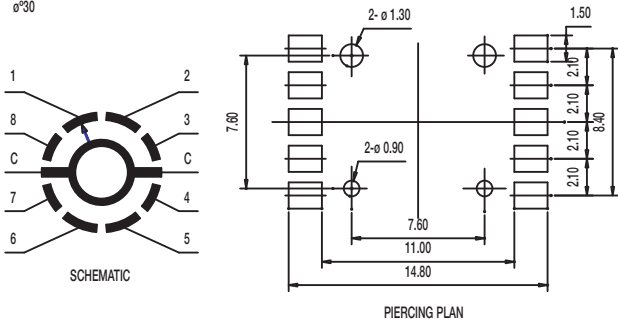
KNOB: PA (UL 94V-0).
COVER: SUS
HOUSING: PA (UL94V-0)
TERMINAL: Silver plated.



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



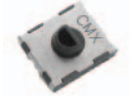
	0°	45°	90°	135°	180°	225°	270°	315°	360°
C-1	ION	---	---	---	OFF	---	---	---	OFF
C-2	OFF	---	ION	---	---	---	---	---	OFF
C-3	OFF	---	---	ION	---	---	---	---	OFF
C-4	OFF	---	---	---	ION	---	---	---	OFF
C-5	OFF	---	---	---	---	ION	---	---	OFF
C-6	OFF	---	---	---	---	---	ION	---	OFF
C-7	OFF	---	---	---	---	---	---	ION	OFF
C-8	OFF	---	---	---	---	---	---	---	ION



Dimensions are shown: mm
Specifications and dimensions subject to change

RW Series Sub-miniature Rotary Switches

PART NUMBER	PACKAGING
RW-1106-NS RT	2,000 pieces per reel



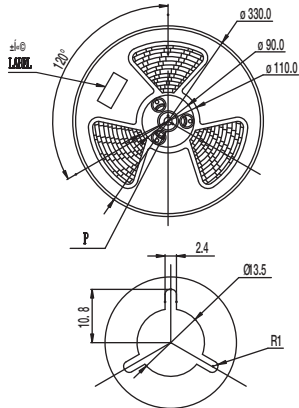
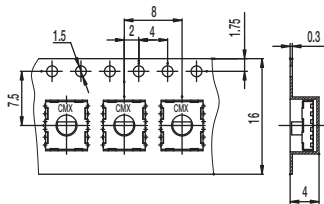
Specifications

CONTACT ARRANGEMENT: 1 Pole, 10 Position
 CONTACT RATING: 10 mA @ 5 V DC.
 ELECTRICAL LIFE: 7,000 cycles.
 INITIAL CONTACT RESISTANCE: 200 mΩ max.
 INSULATION RESISTANCE: 250M Ω min.
 DIELECTRIC STRENGTH: 250 VAC (50-60 Hz).
 TWIST FORCE: 90 ± 15 gf
 OPERATING TEMPERATURE: -30°C to 80°C

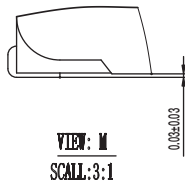
Materials

KNOB: PA (UL 94V-0).
 COVER: Silver plated.
 HOUSING: LCP (UL94V-0)
 TERMINAL: Silver plated.

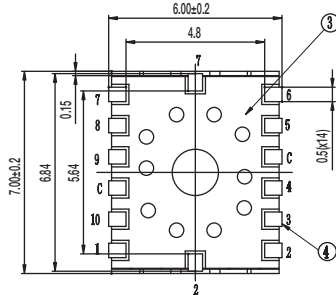
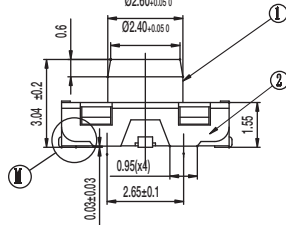
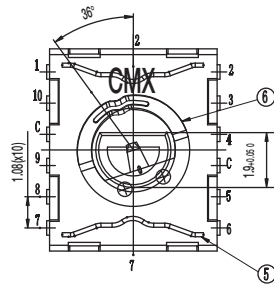
NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.



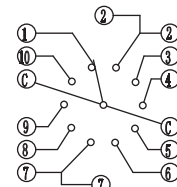
VIEW: P



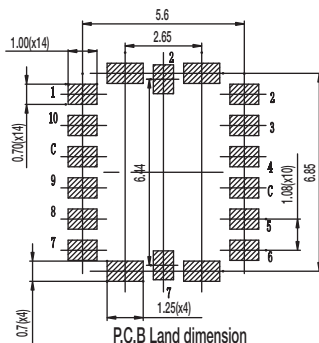
VIEW: M
SCALE: 3:1



	0°	36°	72°	108°	144°	180°	216°	252°	288°	324°	360°
C-1	ON										ON
C-2	OFF	ON									OFF
C-3	OFF		ON								OFF
C-4	OFF			ON							OFF
C-5	OFF				ON						OFF
C-6	OFF					ON					OFF
C-7	OFF						ON				OFF
C-8	OFF							ON			OFF
C-9	OFF								ON		OFF
C-10	OFF									ON	OFF



Circuit Diagram



P.C.B Land dimension



Dimensions are shown: mm
 Specifications and dimensions subject to change

