## Features/Benefits

- Multi-pole and multi-position
- Positive detent •
- Shorting & non-shorting contacts ٠
- Panel and PCB mounting
- **RoHS Compliant**



## Models Available

### **Specifications**

- CONTACT RATING: Q contact material: Switch 2.5 AMPS @ 125 V AC; 350 mA @ 125 V DC (UL/CSA). Carry - 5 AMPS continuous. See page K-6 for additional ratings.
- ELECTRICAL LIFE: 15,000 make-and-break cycles at full load up to 300,000 detent operations.
- CONTACT RESISTANCE: Below 20 m Ω typ. initial @
- 2-4 V DC, 100 mA, for both silver and gold plated contacts. INSULATION RESISTANCE: 10  $^9$   $\Omega$  min.
- DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.
- OPERATING & STORAGE TEMPERATURE: -30°C to 85°C

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 Cer

## Typical Applications

- Automotive
- Major and small appliances
- Industrial equipment



### Materials

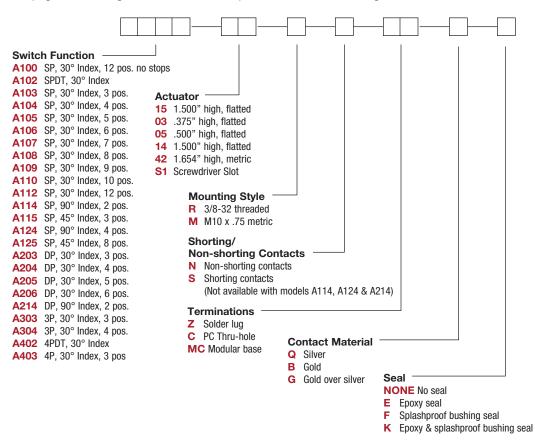
HOUSING & BUSHING: Glass filled 6/6 nylon (UL 94V-0). ACTUATOR: Glass filled 6/6 nylon (UL 94V-0).

- MOVABLE CONTACTS: Q contact material: Coin silver, silver plated. See page K-6 for additional contact materials.
- STATIONARY CONTACTS & TERMINALS: Q contact material: Brass, silver plated. See page K-6 for additional contact materials.
- HARDWARE: Nut zinc, nickel plated. Lockwasher steel, bright zinc plated. Stop Ring - brass, nickel plated.

TERMINAL SEAL: Epoxy.

### **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-4 through K-7. For additional options not shown in catalog, consult Customer Service Center.

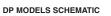


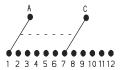
www.ckswitches.com

SWITCH FUNCTION	
-----------------	--

30° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
	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*
SP _	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
	A203	3 Position	A,C,1-3,7-9
DP	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
35	A304	4 Position	A,B,C,1-12

SP MODELS SCHEMATIC 1 2 3 4 5 6 7 8 9 10 11 12





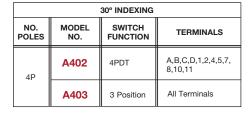
**3P MODELS SCHEMATIC** R

1 2 3 4 5 6 7 8 9 10 11 12

4P MODELS SCHEMATIC R

1 2 3 4 5 6 7 8 9 10 11 12

D



45° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
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

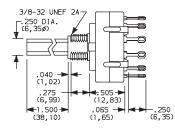
4P MODELS SP MODELS (omit terminals B, C & D) DP MODELS (omit terminals B & D)

.118 DIA. (3,00ø) .217 FLAT (5,51) (9.53)

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  ${}_{\mbox{c}}\mbox{Nus}_{\mbox{us}}$  with all options when ordered with 'G' or 'Q' contact material, see page K-6.





TERM. NOS. MOLDED ON HOUSING

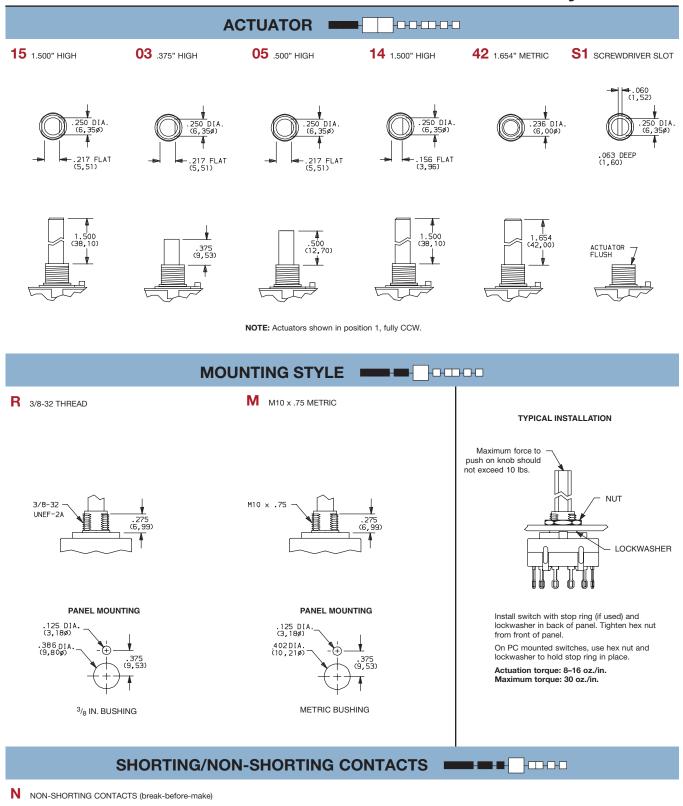


Specifications and dimensions subject to change

-2

Rotary X

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SHORTING CONTACTS (make-before-break)

 $\ensuremath{\text{NOTE:}}$  'S' shorting contacts are not available with A114, A124 and A214 models.

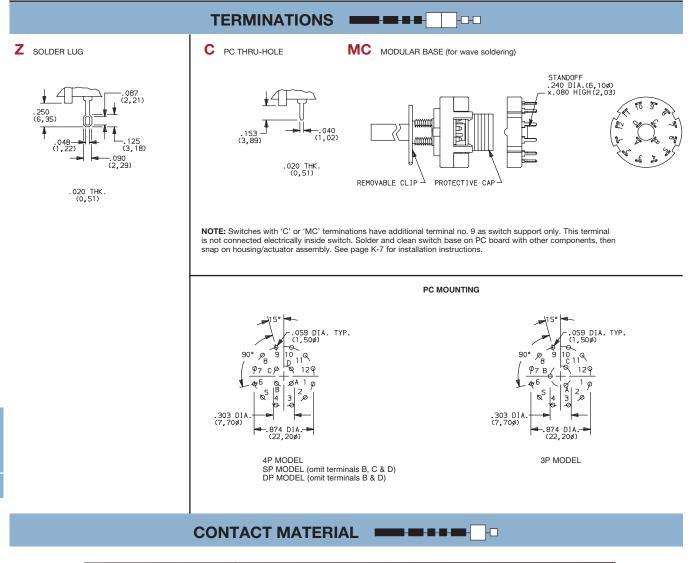


Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

-2

4 dec 17

K–5



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

<sup>1</sup> 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).
- <sup>3</sup> 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.

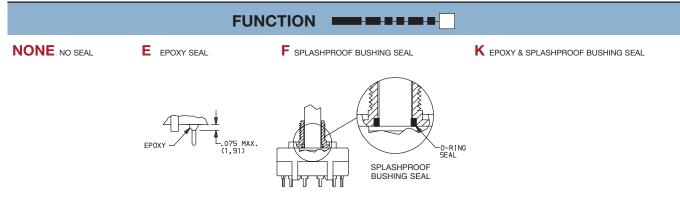
#### NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

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





Rotary X



### 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

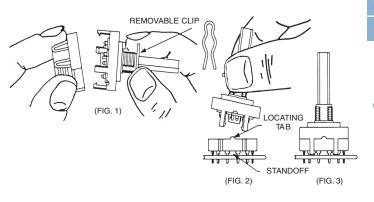
- 1. Insert switch base only into PC board.
- 2. Do not bend terminals.
- 3. Wave soldering recommended at 500F solder temperature.
- 4. Hand solder at 500F, 10 sec. max./terminal.

### 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)

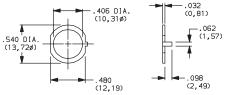
#### Cleaning

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



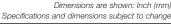
## **AVAILABLE HARDWARE**

#### Stop ring





PART NO. 767B00201 Material: Brass Finish: Nickel plated



Third Angle Projection

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