Features/Benefits

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



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 L-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 Ω min.
- DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level. Operating and storage temp: -30° to 85°C
- 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 Center

- Automotive
 - Major and small appliances
- Industrial equipment



Materials

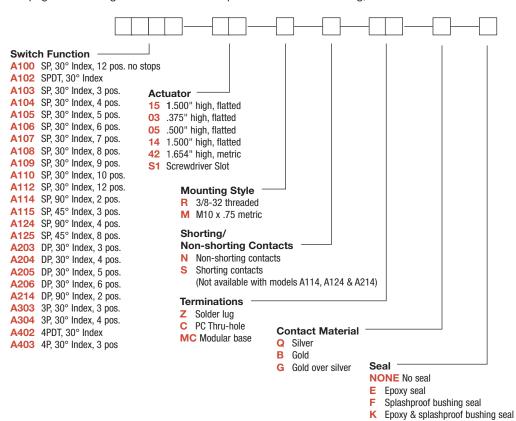
HOUSING & BUSHING: Glass filled 6/6 nylon (UL 94V-0).

- 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.





Dimensions are shown: mm Specifications and dimensions subject to change

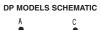


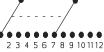
A Series 1-4 Pole Rotary Switches

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





3P MODELS SCHEMATIC

2 3 4 5 6 7 8 9 10 11 12

4P MODELS SCHEMATIC

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

30° INDEXING

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		

Rotary X

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 ${}_{\otimes}$ M ${}^{\textcircled{G}^{\otimes}}$ with all options when ordered with 'G' or 'Q' contact material, see page K-6.



TERMINAL NUMBERS



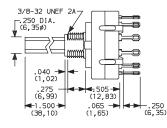
4P MODELS SP MODELS (omit terminals B, C & D) DP MODELS (omit terminals B & D)

Terminal numbers molded on bottom of housing.



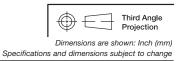
3P MODELS

118 DIA. (3,00ø) .217 FLAT (5,51) (9,53)



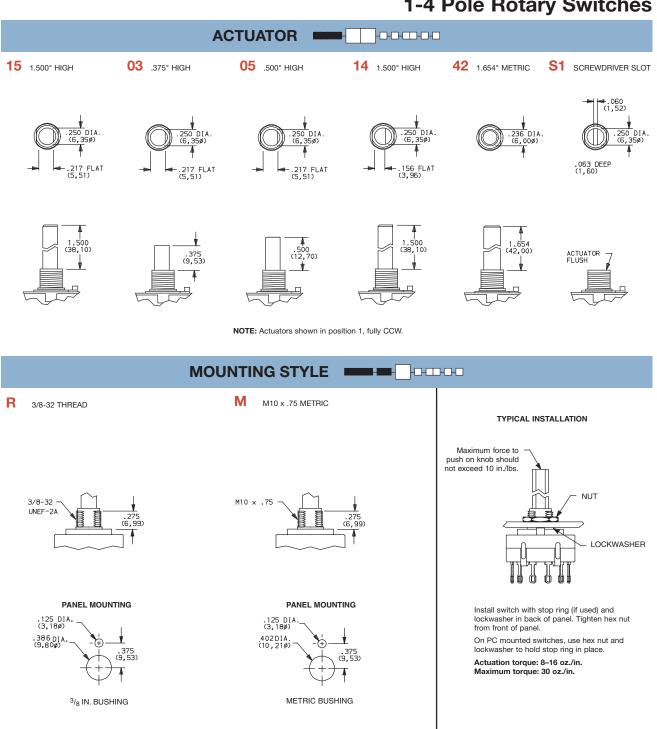








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SHORTING/NON-SHORTING CONTACTS

NON-SHORTING CONTACTS (break-before-make)

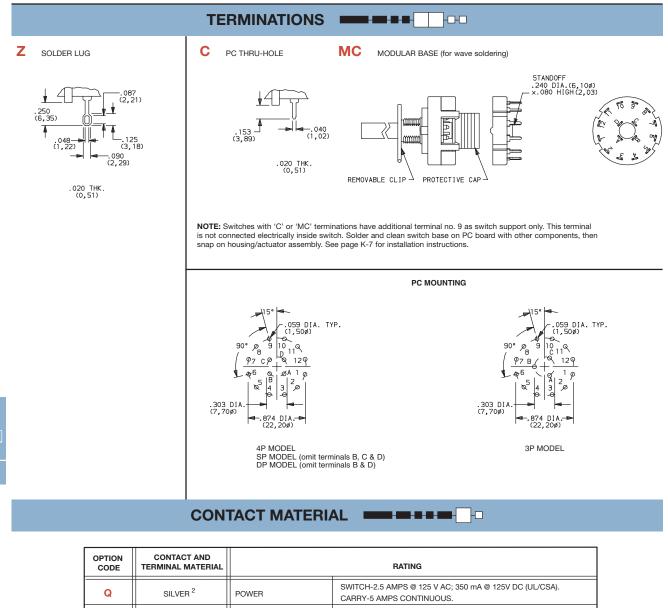
SHORTING CONTACTS (make-before-break)





Dimensions are shown: mm Specifications and dimensions subject to change Rotary





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

OR POWER

LOW LEVEL/DRY CIRCUIT

LOW LEVEL/DRY CIRCUIT

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.

в

G

MOVABLE CONTACTS: Coin silver, silver plated. STATIONARY CONTACTS & TERMINALS: Brass, silver plated (standard with all termination options).

STATIONARY 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.

GOLD¹

GOLD OVER SILVER ³

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

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.

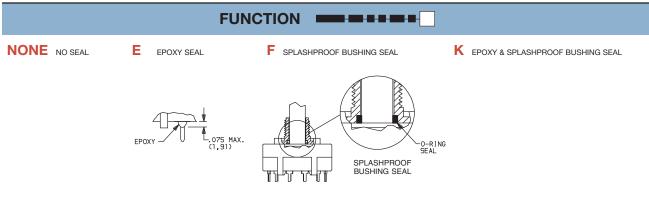
0.4 VA MAX. @ 20 V AC or DC MAX

All models • All m



Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change



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.

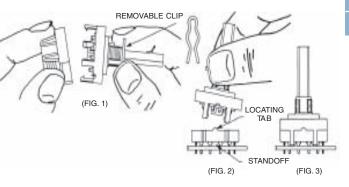
- 3. Wave soldering recommended at 500F solder temperature.
- 4. Hand solder at 500F, 10 sec. max./terminal.

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.
- 3. Freon TMC, TF or Methylene Chloride give excellent results.



AVAILABLE HARDWARE

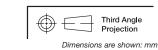
Stop ring

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

.032 (0,81) (10,31ø) 540 DIA (13,720) .098 (2,49) 480 (12, 19)

406 DIA

-.062 (1,57)



Specifications and dimensions subject to change