Features/Benefits

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



Typical Applications

- Automotive
- Major and small appliances
- Industrial equipment



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.

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.

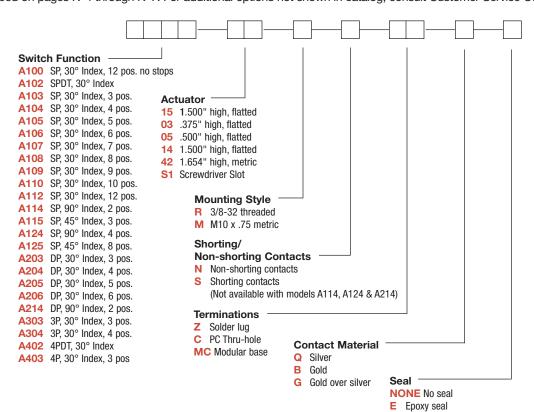
STATIONARY CONTACTS & TERMINALS: Q contact material: Brass, silver plated. See page K-6 for additional contact materials.

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.







Rotary



Splashproof bushing seal Epoxy & splashproof bushing seal

1-4 Pole Rotary Switches

SWITCH FUNCTION

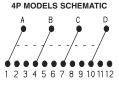
30° INDEXING				
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS	
	A100	12 Position No Stops	A,1-12	
	A102	SPDT	A,1,2*	
	A103	3 Position	A,1-3*	
	A104	4 Position	A,1-4*	
	A105	5 Position	A,1-5*	
SP	A106	6 Position	A,1-6*	
	A107	7 Position	A,1-7	
	A108	8 Position	A,1-8	
	A109	9 Position	A,1-9	
	A110	10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

•	SP WODELS SCHEWATIC											
	A											
-	_	-	-	_	-	-	-	_	10	-	_	

SD MODELS SCHEMATIC

Å	B	C •
		9 10 11 12
40.1400	FI 0 0011	FMATIO

3P MODELS SCHEMATIC



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

45° INDEXING					
NO. POLES			TERMINALS		
O.D.	A115	3 Position	A,1,2,4*		
SP :	A125	8 Position	A,1,2,4,5,7,8,10,11		

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

TERMINAL NUMBERS

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 $_{\odot}$ $\ref{eq:Main}$ with all options when ordered with 'G' or 'Q' contact material, see page K-6.

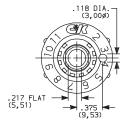


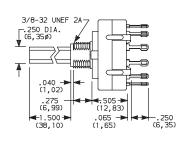
Terminal numbers molded on bottom of housing.

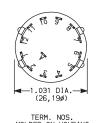


4P MODELS SP MODELS (omit terminals B, C & D) DP MODELS (omit terminals B & D)

3P MODELS









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



100000

























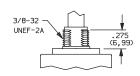
NOTE: Actuators shown in position 1, fully CCW.

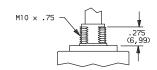
MOUNTING STYLE

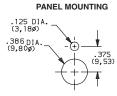
3/8-32 THREAD

M10 x .75 METRIC



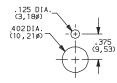






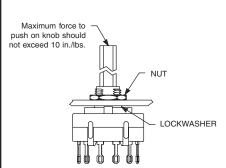
3/8 IN. BUSHING

PANEL MOUNTING



METRIC BUSHING

TYPICAL INSTALLATION



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

NON-SHORTING CONTACTS (break-before-make)

SHORTING CONTACTS (make-before-break)

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



Third Angle

Projection

Dimensions are shown: mm Specifications and dimensions subject to change

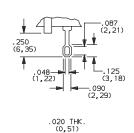


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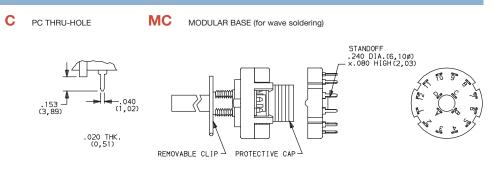
A Series

SOLDER LUG

1-4 Pole Rotary Switches



TERMINATIONS



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 .303 DIA .303 DIA (7,70ø) 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.
В	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.

 MOVABLE CONTACTS: Copper alloy, with gold plate over nickel plate. STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate.
 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

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

All models $_{\circ}$ $^{\bullet}$ with all options when ordered with 'G' or 'Q' contact material.

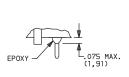
NOTE: 'G' contact material is equivalent to both 'B' and 'Q" contact materials.

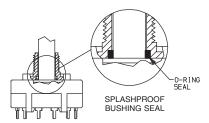


Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



FUNCTION





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

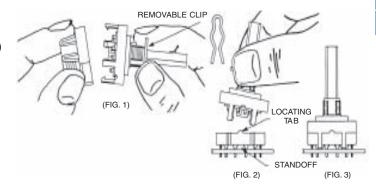
- 1. Insert switch base only into PC board.
- 2. Do not bend terminals.
- 3. Wave soldering recommended at 500F solder temperature.
- 4. Hand solder at 500F, 10 sec. max./terminal.

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)

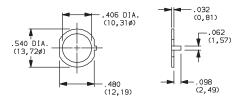
Cleaning

- 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



Specifications and dimensions subject to change



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