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JAMECO

ELECTRONICS

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Jameco Part Number 576501

Features/Benefits

- Multi-pole and multi-position
- Positive detent
- Shorting & non-shorting contacts
- Panel and PCB mounting
- Wire leads available

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 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 Ω min.

DIELECTRIC STRENGTH: 1.000 Vrms min. @ sea level.

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.

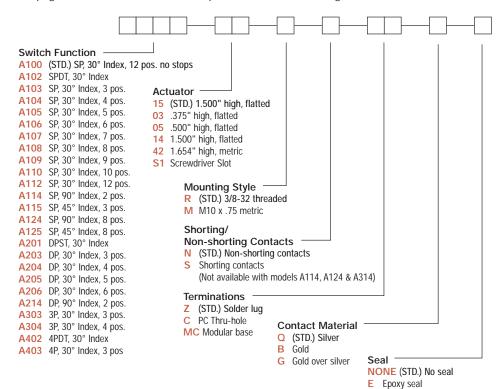
STATIONARY CONTACTS & TERMINALS: Q contact material: Brass, silver plated. See page K-6 for additional contact materials.

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 thru K-7. For additional options not shown in catalog, consult Customer Service Center.









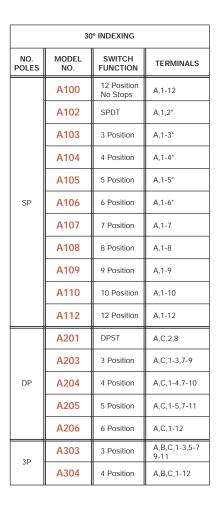


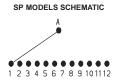
Dimensions are shown: IN (mm) Dimensions subject to change

Splashproof bushing seal K Epoxy & splashproof bushing seal

SWITCH FUNCTION

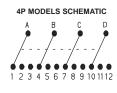






	DP MODELS SCHEMATIC										
A					С						
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1	2	3	4	5	6	7	8	9	10	11	12

3P MODELS SCHEMATIC											
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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*				
25	A125	8 Position	A,1,2,4,5,7,8,10,11				

90° INDEXING							
NO. POLES	MODEL NO.	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

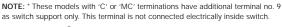


Terminal numbers molded on bottom of housing.

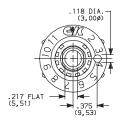


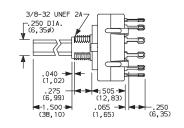
4P MODELS SP MODELS (omit terminals B, C & D) DP MODELS (omit terminals B & D)

3P MODELS



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





K-4



TERM. NOS. MOLDED ON HOUSING



























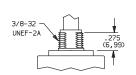


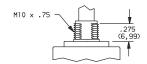
NOTE: Actuators shown in position 1, fully CCW.

MOUNTING STYLE

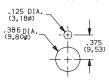
(STD.) 3/8-32 THREAD

M10 x .75 METRIC



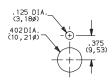


PANEL MOUNTING



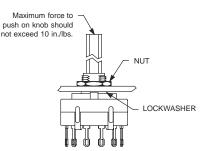
3/8 IN. BUSHING

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.

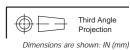
Actuation torque: 8-16 oz./in. Maximum torque: 30 oz./in.

SHORTING/NON-SHORTING CONTACTS



S SHORTING CONTACTS (make-before-break)

NOTE: 'S' shorting contacts are not available with A114, A124 and A214, A314 models.



Dimensions subject to change



Cannon

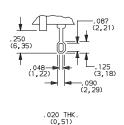


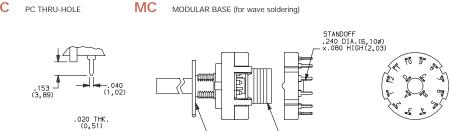


TERMINATIONS



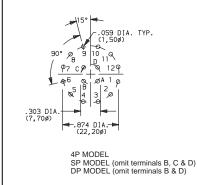
(STD.) SOLDER LUG

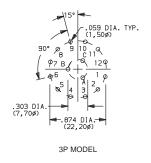




NOTE: Switches with ${}^{\prime}C'$ or ${}^{\prime}MC'$ terminations have additional terminal no. 9 as switch support only. This terminal is not connected electrically inside switch. Solder and clean switch base on PC board with other components, then snap on housing/actuator assembly. See page K-7 for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

PC MOUNTING





CONTACT MATERIAL



OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS			
Q (STD.)	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.		

CONTACT MATERIAL/APPLICATION RECOMMENDATIONS-SEE SECTION N.

¹ MOVABLE CONTACTS: Copper alloy, with gold plate over nickel plate. STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate.

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

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.

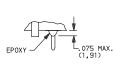
All models ** with all options when ordered with 'G' or 'Q' contact material.

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



Third Angle Projection

K-6





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

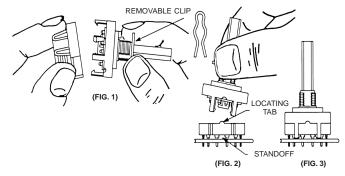
- 1. Insert switch base only into PC board.
- 2. Do not bend terminals.
- 3. Wave soldering recommended at 500F solder temperature.
- 4. Hand solder at 500F, 10 sec. max./terminal.

Switch Assembly

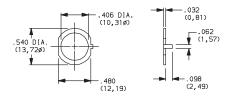
- 1. Hold housing/shaft assembly by housing. Remove protective cap by squeezing tabs and discard. (FIG. 1)
- 2. Do not push on switch shaft. Detent mechanism will come apart.
- 3. While holding switch housing, align locating tab on base with notch on housing and engage 4 housing latches in slots on base. (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.



Stop ring



PART NO. 472900201

Material: Brass Finish: Nickel plated



Third Angle Projection Dimensions are shown: IN (mm)

Dimensions subject to change