Features/Benefits

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



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 $^{9} \Omega$ 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. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

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

Typical Applications

- Automotive
- Major and small appliances
- Industrial equipment



Materials

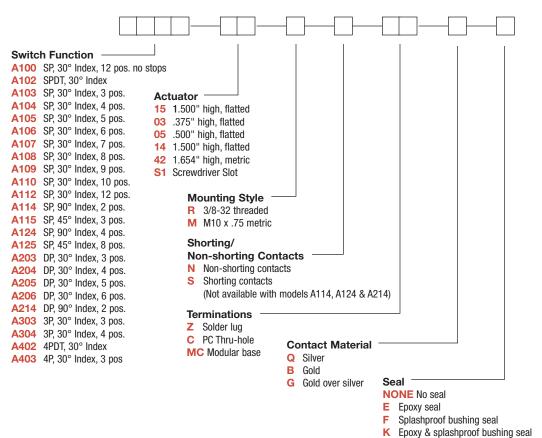
HOUSING & BUSHING: Glass filled 6/6 nylon (UL 94V-0).

- ACTUATOR: Glass filled 6/6 nylon (UL 94V-0).
- MOVABLE CONTACTS: Q contact material: Coin silver, silver plated. See page L-6 for additional contact materials.
- STATIONARY CONTACTS & TERMINALS: Q contact material: Brass, silver plated. See page L-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 L–4 through L–7. For additional options not shown in catalog, consult Customer Service Center.



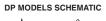


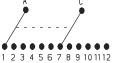
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

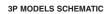
SWITCH FUNCTION

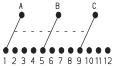
| | 30° INDEXING | | | | |
|--------------|--------------|-------------------------|-----------------------|--|--|
| NO. POLES | MODEL NO. | SWITCH FUNCTION | TERMINALS | | |
| | A100 | 12 Position No Stops | A,1-12 | | |
| | A102 | SPDT | A,1,2* | | |
| | A103 | 3 Position | A,1-3* | | |
| SP | A104 | 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 | | |
| | 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 | | |
| 20 | A303 | 3 Position | A,B,C,1-3,5-7 9-11 | | |
| 3P | A304 | 4 Position | A,B,C,1-12 | | |

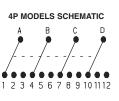
SP MODELS SCHEMATIC 1 2 3 4 5 6 7 8 9 10 11 12











| 30° INDEXING | | | |
|------------------------|------|--------------------|-------------------------------|
| NO. MODEL POLES 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 |

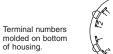
| 90° INDEXING | | | |
|--------------|--------------|--------------------|--------------|
| NO. POLES | MODEL NO. | SWITCH FUNCTION | TERMINALS |
| SP | A114 | 2 Position | A,1,4* |
| | A124 | 4 Position | A,1,4,7,10 |
| DP | A214 | 2 Position | A,C,1,4,7,10 |

TERMINAL NUMBERS

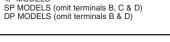
of housing.



4P MODELS



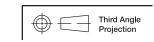
3P MODELS



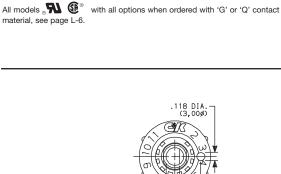




TERM. NOS. MOLDED ON HOUSING



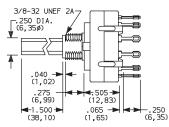
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

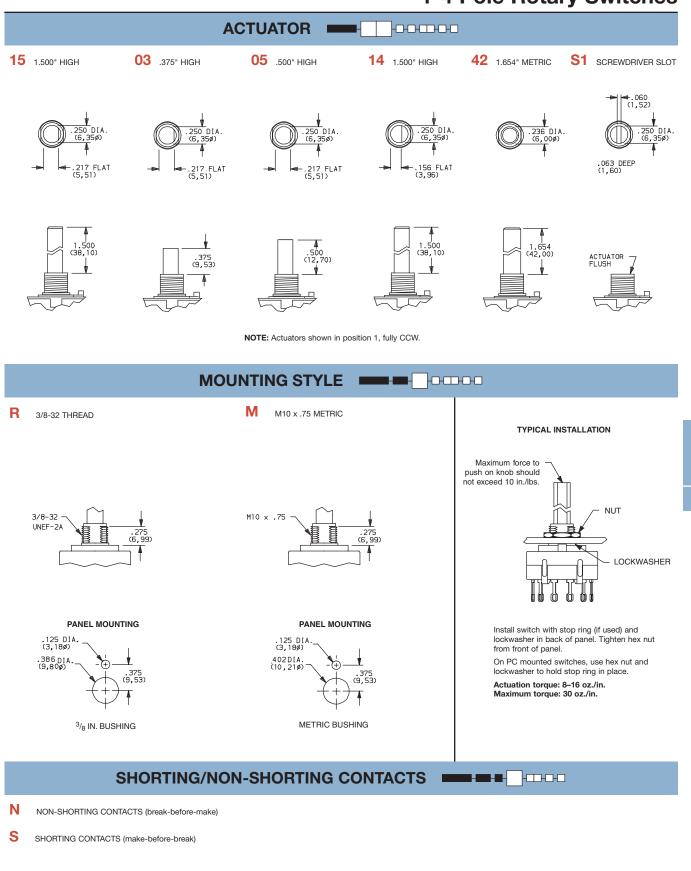


.217 FLAT (5,51)

. 375 (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.





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

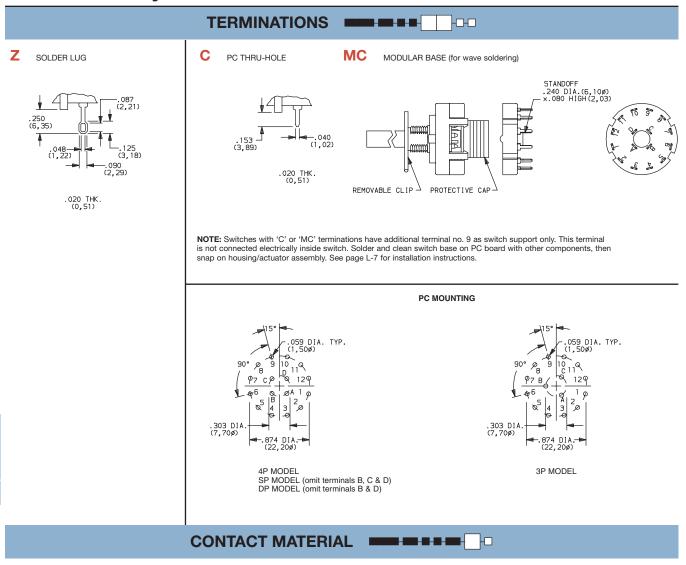


Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change

Third Angle

Rotary



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

L-6

* 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

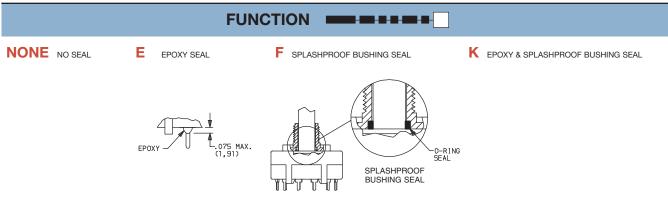
NOTE: Any models supplied with Q, B or G contact material are RoHS compliant. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

All models ${}_{\circ}$ ${f N}$ ${f G}^{\circ}$ 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

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

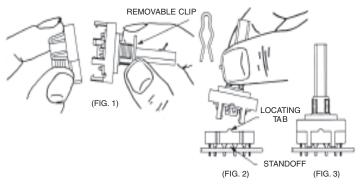
- 1. Insert switch base only into PC board.
- 2. Do not bend terminals.
- 3. Wave soldering recommended at 500F solder temperature.
- 4. Hand solder at 500F. 10 sec. max./terminal.

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)

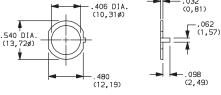
Cleaning

- 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





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



.032 (0,81)

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



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