Features/Benefits

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



Models 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: Up to 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.

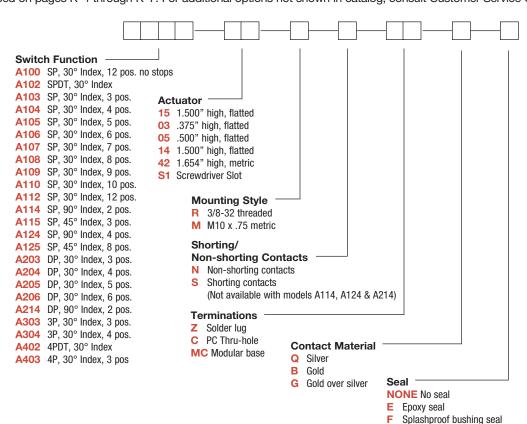
STATIONARY CONTACTS & TERMINALS: Q contact material: Brass, silver plated. See page K-6 for additional contact materials.

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.



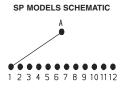


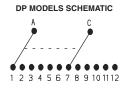
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

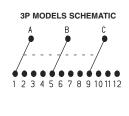
Epoxy & splashproof bushing seal

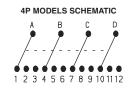
SWITCH FUNCTION

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	









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*	
	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		

NOTE: * These models with 'C' or 'MC' terminations have additional terminal no. 9

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

as switch support only. This terminal is not connected electrically inside switch.



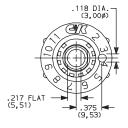
Terminal numbers molded on bottom of housing.

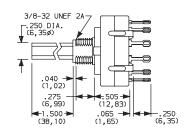
TERMINAL NUMBERS



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

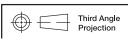
3P MODELS







TERM. NOS. MOLDED ON HOUSING



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



ACTUATOR -100000

15 1.500" HIGH

03 .375" HIGH

05 .500" HIGH

14 1.500" HIGH

42 1.654" METRIC

\$1 SCREWDRIVER SLOT



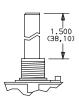




















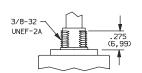


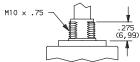
NOTE: Actuators shown in position 1, fully CCW.

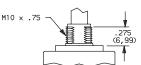
MOUNTING STYLE

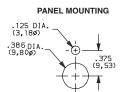


M10 x .75 METRIC



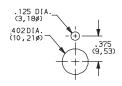






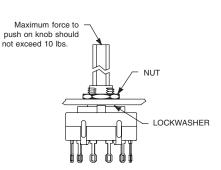
3/8 IN. BUSHING

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)

S SHORTING CONTACTS (make-before-break)

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



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

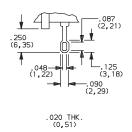


A Series 1-4 Pole Rotary Switches

TERMINATIONS

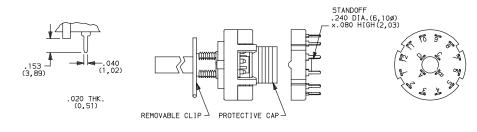


Z SOLDER LUG



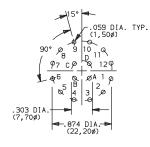
C PC THRU-HOLE

MC MODULAR BASE (for wave soldering)

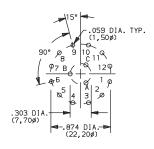


NOTE: Switches with 'C' or 'MC' terminations have additional terminal no. 9 as switch support only. This terminal is not connected electrically inside switch. Solder and clean switch base on PC board with other components, then snap on housing/actuator assembly. See page K-7 for installation instructions.

PC MOUNTING

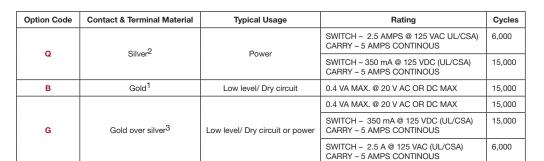


4P MODEL SP MODEL (omit terminals B, C & D) DP MODEL (omit terminals B & D)



3P MODEL

CONTACT MATERIAL =



^{*} 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.
- 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.

All models $\ _{\mathbf{c}}\mathbf{N}_{\mathbf{US}}$ with all options when ordered with 'G' or 'Q' contact material.

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



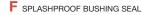
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



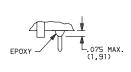
FUNCTION ----

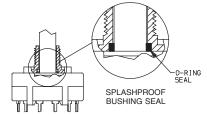












Setting Stops on A112 and A125 Models

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

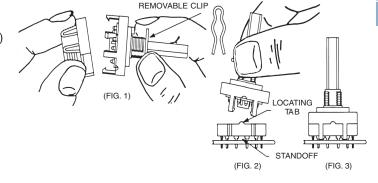
- 1. Insert switch base only into PC board.
- 2. Do not bend terminals.
- 3. Wave soldering recommended at 500F solder temperature.
- 4. Hand solder at 500F, 10 sec. max./terminal.

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)

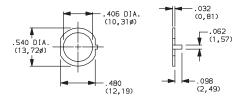
Cleaning

- 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



Specifications and dimensions subject to change



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ESMK1215NCL130 QS1 KQS1 BK S C 773302263 473202000 479603000 4151 SERU AU BRAUN 7101J50V5QE2 7101K2CWZBE 7101MD9ABE2 7101SDV7QE 7101SDZBE2 7103T1CWV3GE 7105K2CWZQE 7105TCWZBES 7108J2ZQE1 7201TCWCBE 7203MCWCQE 7203T1ZQE 7207SYCBE 7208L41YZQE 7211SPY3AV2SE2 7215J1AV2BE2 7215JBV6BE 7215L3YZQE ET05LD1AGE ET05MD1AVBE 7401J3ZQE3 7411J3ZQE1 752708000 FA0115RN02Q 8161LHZ3QE22 8161LHZQE2 FLT 2U EE 01A MMGGF5L0T MP01R133CBE GT11MV3BE A10403RNZQE 1.20123.0050000 A11205RNZQ A20303RNCG A30415RSCG 12TL402 ADPFF3J04AW 1.30070.0011002 1.30073.6200200 DM22J11S205PQ DT450T E101J3V31QE2 E101JAAV2QE