

Features/Benefits

- Long travel
- Available with LED
- Long life contact design
- Epoxy terminial seal compatabile with bottom wash cleaning
- RoHS compliant models available

Typical Applications

- Instrumentation
- Computers and peripherals
- Telecommunications and networking equipment



Specifications

CONTACT RATING: Q contact material: 6 AMPS @ 120 V AC or 28 V DC; 3 AMPS @ 250 V AC. See page A-59 for additional ratings.

ELECTRICAL LIFE: 50,000 make-and-break cycles at full load.

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 TEMPERATURE: -30°C to 65°C

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

CAP INSTALLATION FORCE: 10 lbs. maximum permissible.

NOTE: Any models supplied with P, R, S, 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 Cente

Materials

CASE: Glass filled nylon 6/6 or diallyl phthalate (DAP). flame retardant (UL 94V-0)

PLUNGER: S, S1, S2 Options: Glass filled nylon or glass filled polyester (PBT) (UL 94V-0). L, L1 Options: Brass, nickel plated.

CAP & FRAME: Nylon, black standard BUSHING: Brass or zinc, nickel plated

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, matte-tin plated

END CONTACTS: Q contact material: Coin silver, silver plated. See page A-59 for additional contact materials.

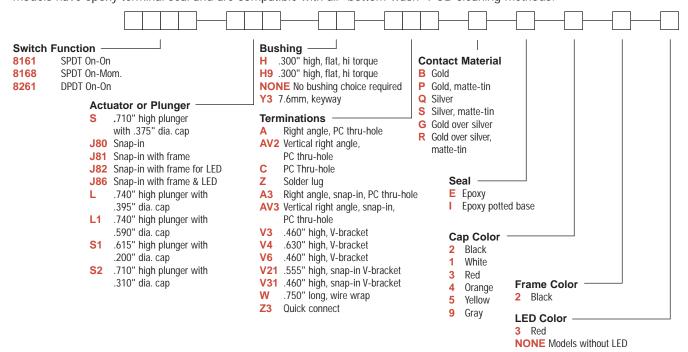
CENTER CONTACT & ALL TERMINALS: Q contact material: Copper alloy, silver plated. See page A-59 for additional contact materials.

TERMINAL SEAL: Epoxy. Refer to soldering and cleaning in Technical Data Chapter.

HARDWARE: Nut & Locking Ring: Brass, nickel plated; Lockwasher: Steel, nickel plated.

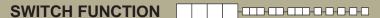
Build-A-Switch

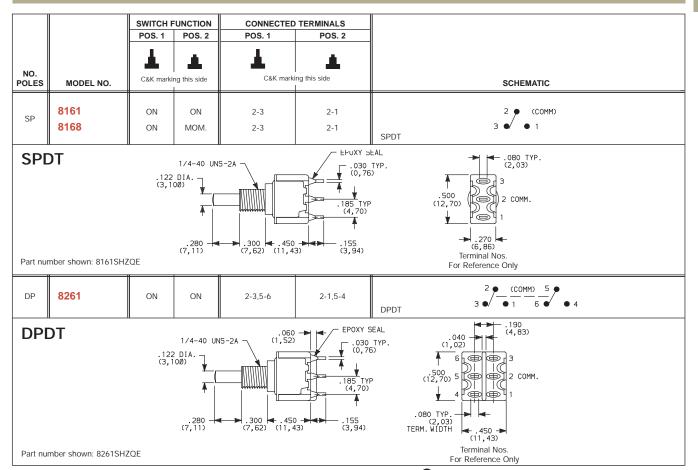
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-53 thru A-61. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.











MOM. = Momentary

All models $_{\circ}$ **N** $^{\circ}$ with all options when ordered with G, L, M or Q contact material.

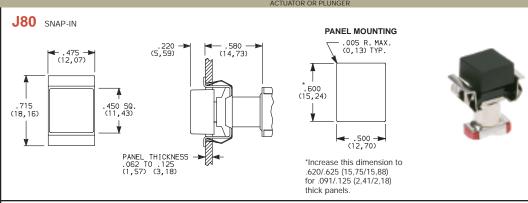
ACTUATOR—SNAP-IN FRONT MOUNT

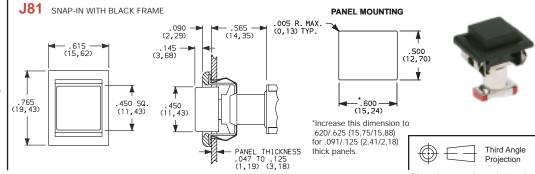
OPTION CODE	CAP COLOR	
2	BLACK	
1	WHITE	
3	RED	
4	ORANGE	
5	YELLOW	
9	GRAY	

Cap Finish: matte. Other colors available, consult Customer Service Center.

Available with C, W, Z or Z3 terminations

NOTE: Caps & frames available separately, see pages A-60 and A-61







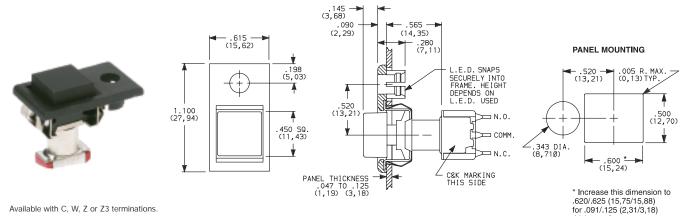
Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change



CAP COLOR ACTUATOR—SNAP-IN FRONT MOUNT

J82 SNAP-IN WITH BLACK FRAME FOR LED



Available with C, W, Z or Z3 terminations.

LED not included.

For LED information, see page A-61.

NOTE: Caps & frames available separately, see pages A-60 and A-61.

Other colors available, consult

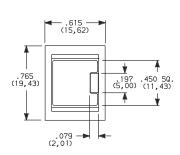
OPTION CODE	CAP COLOR	
2	BLACK	
1	WHITE	
3	RED	
4	ORANGE	
5	YELLOW	
9	GRAY	

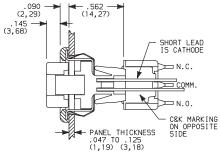
ACTUATOR—SNAP-IN FRONT MOUNT

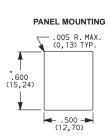
J86 SNAP-IN WITH BLACK FRAME AND LED



8161J86ZQE223 **SPDT**







* Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18)

Available with C, W, Z or Z3 terminations and SPDT models only

NOTE: Caps & frames available separately, see pages A-60 and A-61.

Other colors available consult Customer Service Center.

OPTION CODE	CAP COLOR	
2	BLACK	
1	WHITE	
3	RED	
4	ORANGE	
5	YELLOW	
9 GRAY		

OPTION CODE	LED COLOR	
3	RED	

For LED information, see page A-59.



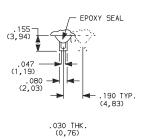




TERMINATIONS

PC THRU-HOLE PC MOUNTING EPOXY SEAL .250 .189 (6,35) (4,80) .190 TYP. (4,83) .190 TYP. (4,83) .030 THK. (0,76)

SOLDER LUG



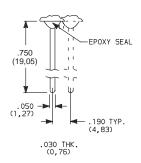
SPDT and DPDT

SPDT and DPDT

Not available with P, S or R contact material.

Z3 QUICK CONNECT EPOXY SEAL .250 (6,35) .190 TYP. (4,83)

WIRE WRAP



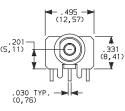
SPDT and DPDT

Not available with P, S or R contact material. Mating quick connector available; order part number 530100000, page A-61.

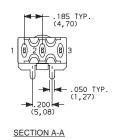
SPDT and DPDT

RIGHT ANGLE, PC THRU-HOLE





.122 DIA. (3,100) EPOXY SEAL .138 .280 -.385 (7,11) (9,78) ⊢ .500 − (12,70) (3,51).050 TYP. -



8161SH9ABE2 **SPDT**

A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE





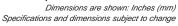
PC MOUNTING .185 TYP. (4,70)

NOTE: PC pattern must clear switch support leg.

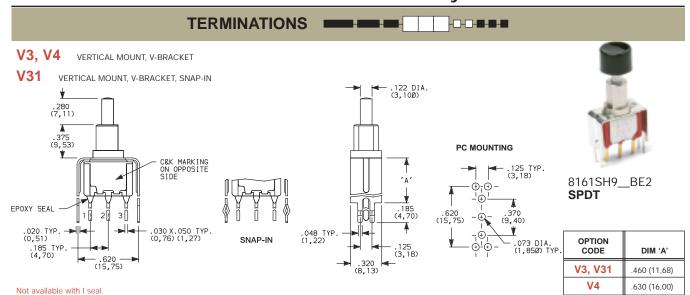
Not available with I seal. Terminal bend radii and lead-in manufacturing option.

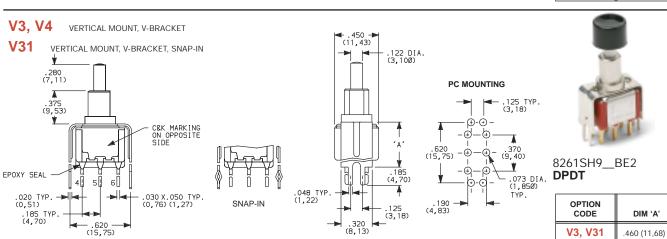












CONTACT MATERIAL

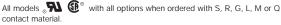
OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
В	GOLD ¹	GOLD ¹	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
Р		MATTE-TIN ⁶		
Q	CILVED 45	SILVER ⁵	DOWED	6 AMPS @ 120 V AC OR 28 V DC;
S	SILVER 4,5	MATTE-TIN 6	POWER	3 AMPS @ 250 V AC.
G	GOLD OVER	GOLD ³		0.4 VA MAX @ 20 V AC OR DC MAX. OR
R	R SILVER ^{2,3}	MATTE-TIN ⁶	LOW LEVEL/DRY CIRCUIT OR POWER	6 AMPS @ 120 V AC OR 28 V DC; 3 AMPS @ 250 V AC.

- * Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications
- ¹ CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- ² END CONTACTS: Coin silver, with gold plate over nickel plate.
- ³ CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- ⁴ END CONTACTS: Coin silver, silver plated.

Not available with I seal.

- $^{\rm 5}$ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- ⁶ TERMINALS: Copper alloy, with matte-tin over nickel plate.

NOTE: Any models supplied with P, S, R,Q, B or G contact material are



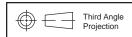
B contact material standard with all terminations except C, Z & Z3.

Q contact material standard with C, Z & Z3 terminations.

P, S & R contact materials not available with Z & Z3 terminations.

K, L and M options represent Non RoHS tin lead product and are not recommended for new designs. For additional information please contact Customer Service.





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.630 (16,00)

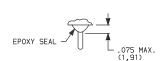


8060 Series

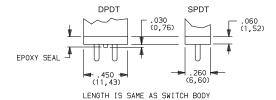
Alternate Action and Momentary Pushbutton Switches





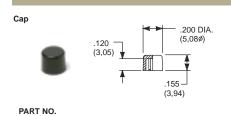


EPOXY POTTED BASE



NOTE: Available with C. W. Z. Z3 terminations only

AVAILABLE HARDWARE



708901000 WHITE 708902000 BLACK 708903000 RED 708904000 ORANGE 708905000 YELLOW 708909000

GRAY

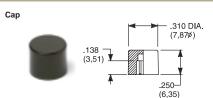
Material: Nylon Finish: Gloss



PART NO.

752701000 WHITE 752702000 BLACK 752703000 RED 752704000 ORANGE 752705000 YELLOW 752709000 GRAY

Material: Nylon Finish: Gloss

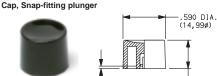


PART NO.

801801000 WHITE 801802000 **BLACK** 801803000 RED 801804000 ORANGE 801805000 YELLOW 801809000 GRAY

Material: Nylon

Finish: Gloss



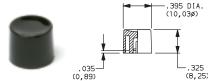
395 (10,03) PART NO. 894001000

894002000 BLACK 894003000 RED 894004000 ORANGE 894005000 YELLOW 894009000 GRAY

WHITE

Material: Nylon Finish: Gloss

Cap, Snap-fitting plunger

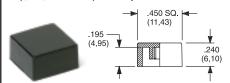


PART NO.

894101000 WHITE 894102000 BLACK 894103000 RED 894104000 ORANGE 894105000 YELLOW 894109000 GRAY

Material: Nylon Finish: Gloss

Cap, J80, J81 & J82 options only



PART NO.

484601000 WHITE 484602000 BLACK 484603000 RED 484604000 ORANGE 484605000 YELLOW 484609000

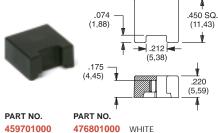
Material: Nylon Finish: Gloss

PART NO. 798201000

WHITE 798202263 BLACK 798203000 RED 798204000 ORANGE 798205000 YELLOW 798209000 GRAY

Material: Nylon Finish: Matte

Cap, J86 & J96 options only



459701000 459702000 459703000 459704000 459705000 459709000

Material: Nylon

476809000 Material: Nylon Finish: Matte

476802000

476803000

476804000

476805000

BLACK

ORANGE

YELLOW

RFD

GRAY

Frame



PART NO.

615602263 BLACK

Material: Nylon Finish: Matte

Frame



PART NO.

613302263 BLACK

Material: Nylon Finish: Matte

NOTE: Additional nuts, locking rings and lockwashers available separately, see section "Technical Data and Additional Hardware" Other cap & frame colors available, consult Customer Service Center.



