



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.

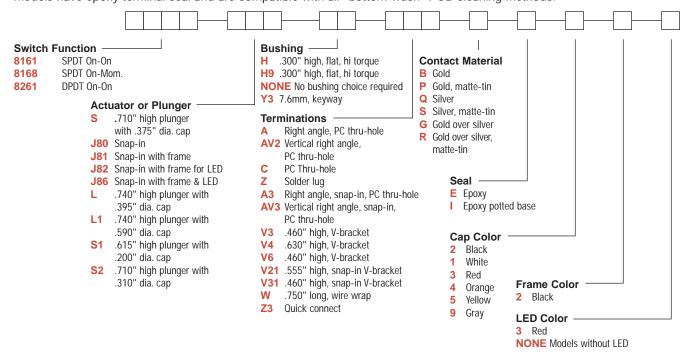
CENTER CONTACT & ALL TERMINALS: Q contact material: Copper alloy, silver plated. See page A-59 for additional contact materials.

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

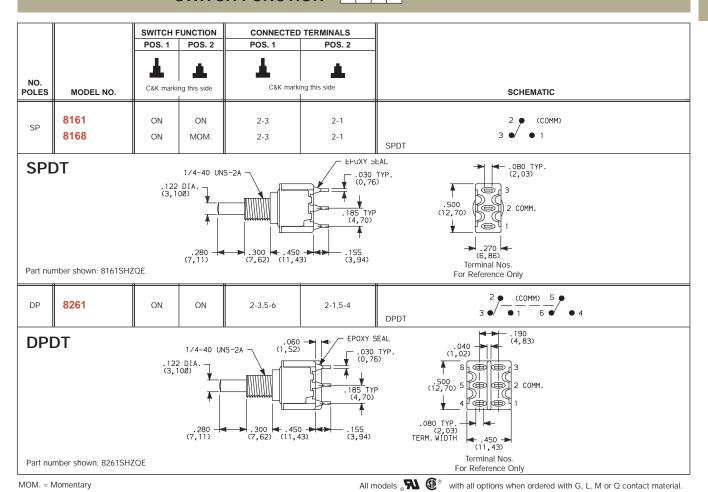
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-53 thru A-61. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all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







SWITCH FUNCTION



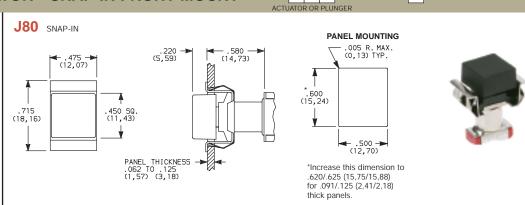
ACTUATOR—SNAP-IN FRONT MOUNT

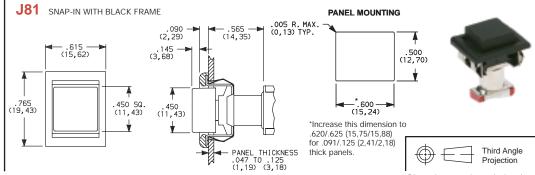
OPTION CODE	CAP COLOR	
2	BLACK	
1	WHITE	
3	RED	
4	ORANGE	
5	YELLOW	
9	GRAY	

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



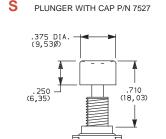




Dimensions are shown: Inches (mm)

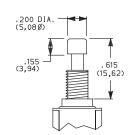
8060 Series

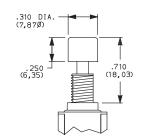


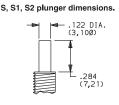


PLUNGER WITH CAP P/N 7089

S2 PLUNGER WITH CAP P/N 8018

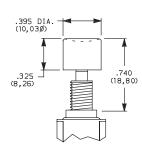




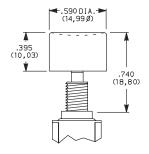


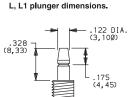
Plunger material: Glass filled nylon or glass filled polyester (ÚL 94V-0).

PLUNGER WITH CAP P/N 8941



PLUNGER WITH CAP P/N 8940



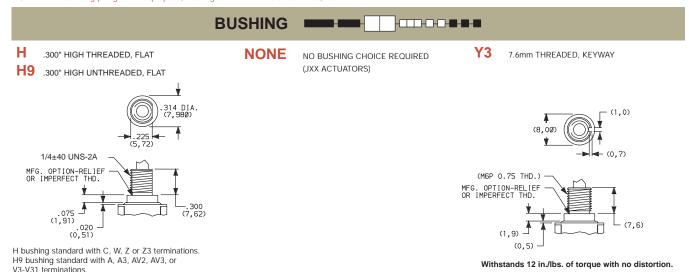


OPTION CODE CAP COLOR 2 BLACK 1 WHITE 3 RFD 4 ORANGE 5 YELLOW 9

Plunger Material: Brass, chrome plated.

Other colors available, consult Customer

NOTE: When selecting plunger and cap option, bushing selection must also be made, see below.

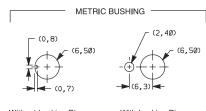


Withstands 12 in./lbs. of torque with no distortion.

NOTE: When selecting bushing option, plunger selection must also be made, see above. No bushing option choice required when any JXX actuator option is selected.

PANEL MOUNTING 1/4 IN. BUSHING .094 DIA. (2.390) .250 DIA. (6,350) (5,96) Without Locking Ring With Standard Locking Ring With Small Locking Ring

NOTE. Two mounting nuts, locking ring and lockwasher supplied standard with threaded bushings. Optional mounting nut and locking ring styles and finishes available, see section "Technical Data and Additional Hardware"



Without Locking Ring

With Locking Ring

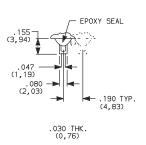




TERMINATIONS

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

SOLDER LUG



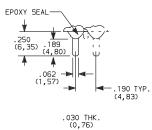
SPDT and DPDT

SPDT and DPDT

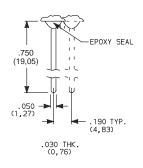
Not available with P, S or R contact material.

Z3 QUICK CONNECT

.030 THK. (0,76)



WIRE WRAP



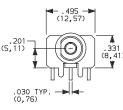
SPDT and DPDT

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

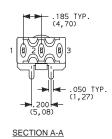
SPDT and DPDT

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





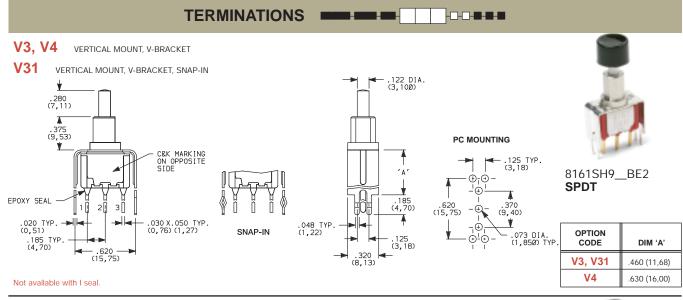
PC MOUNTING .185 TYP. (4,70)

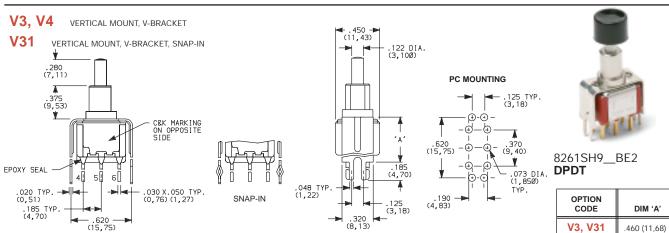
NOTE: PC pattern must clear switch support leg.

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









CONTACT MATERIAL ----

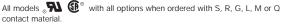
OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
В	GOLD ¹	GOLD ¹	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
Р		MATTE-TIN ⁶	LOW LEVEL/DKT CIRCUIT	U.4 VA IVIAN. @ 20 V AC OR DC IVIAN.
Q	SII VFR 4,5	SILVER ⁵	DOWED	6 AMPS @ 120 V AC OR 28 V DC;
S	SILVER 4,2	MATTE-TIN 6	POWER	3 AMPS @ 250 V AC.
G	GOLD OVER	GOLD ³		0.4 VA MAX @ 20 V AC OR DC MAX. OR
R	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.
- $^{\rm 2}$ END CONTACTS: Coin silver, with gold plate over nickel plate.
- $^{\rm 3}$ 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.

 $\mbox{NOTE:}$ Any models supplied with P, S, R,Q, B or G contact material are RoHS compliant.

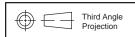


B contact material standard with all terminations except C, Z & Z3.

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.



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

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.630 (16,00)



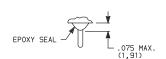


8060 Series

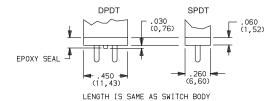
Alternate Action and Momentary Pushbutton Switches

SEAL

EPOXY SEAL



EPOXY POTTED BASE



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

AVAILABLE HARDWARE

Сар (5.08%)120 (3,05) .155 – (3.94)PART NO.

708901000 WHITE 708902000 BLACK 708903000 RED

708904000 ORANGE 708905000 YELLOW 708909000 GRAY

Material: Nylon Finish: Gloss

PART NO.

894001000

894002000

894003000

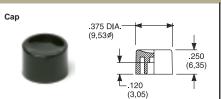
894004000

894005000

Material: Nylon

Finish: Gloss

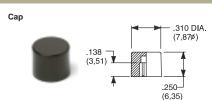
894009000 GRAY



PART NO.

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

Material: Nylon Finish: Gloss

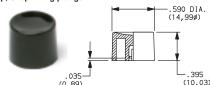


PART NO.

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

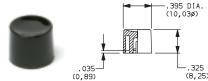
Material: Nylon Finish: Gloss

Cap, Snap-fitting plunger



(10,03)

Cap, Snap-fitting plunger

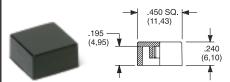


PART NO.

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

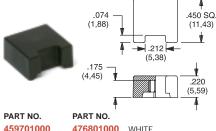
WHITE

BLACK

ORANGE

YELLOW

RED



459702000 459703000 459704000 459705000 459709000

Material: Nylon

476801000 WHITE 476802000 BLACK 476803000 RFD 476804000 ORANGE 476805000 YELLOW 476809000

GRAY

Material: Nylon Finish: Matte

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.



