

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 $m\Omega$ 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 Center.

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.

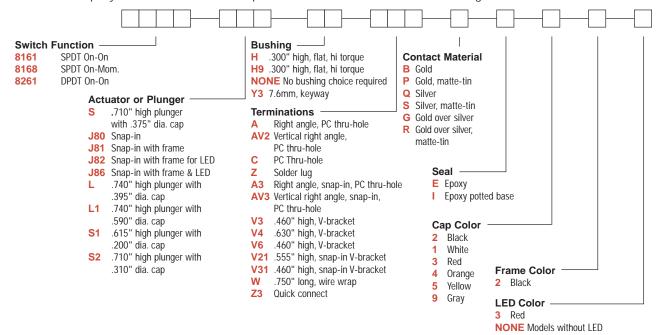
CENTER CONTACT & ALL TERMINALS: Q contact material: Copper alloy, silver plated. See page A-59 for additional contact materials.

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

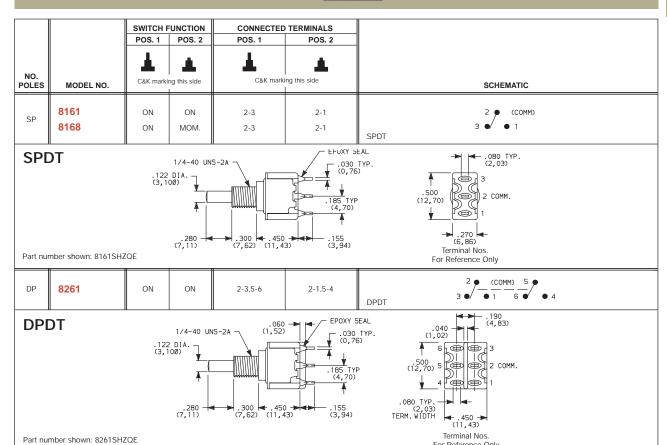
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-53 thru A-61. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all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







SWITCH FUNCTION



MOM. = Momentary

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

For Reference Only

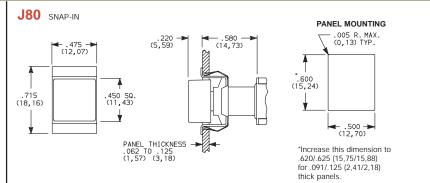
ACTUATOR—SNAP-IN FRONT MOUNT

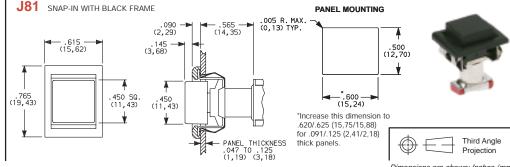
OPTION CODE	CAP COLOR		
2	BLACK		
1	WHITE		
3	RED		
4	ORANGE		
5	5 YELLOW		
9	GRAY		

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.

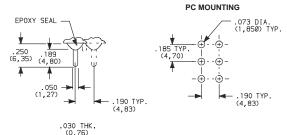




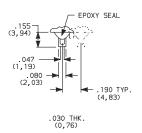


TERMINATIONS

PC THRU-HOLE EPOXY SEAL



SOLDER LUG

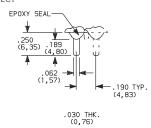


SPDT and DPDT

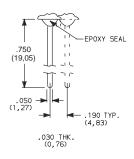
SPDT and DPDT

Not available with P, S or R contact material.

Z3 QUICK CONNECT



W WIRE WRAP



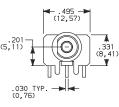
SPDT and DPDT

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

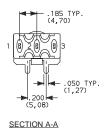
SPDT and DPDT

RIGHT ANGLE, PC THRU-HOLE





.122 DIA. (3,100) EPOXY SEAL _.138 .280 **◄**.385**▶** (7,11) (9,78) ► .500 -(12,70) .050 TYP. → (1,27)



8161SH9ABE2 **SPDT**

RIGHT ANGLE, SNAP-IN, PC THRU-HOLE





.185 TYP. (4,70)

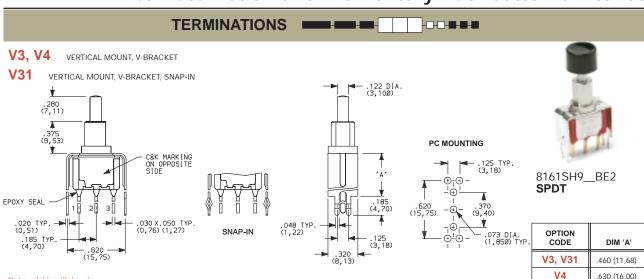
PC MOUNTING

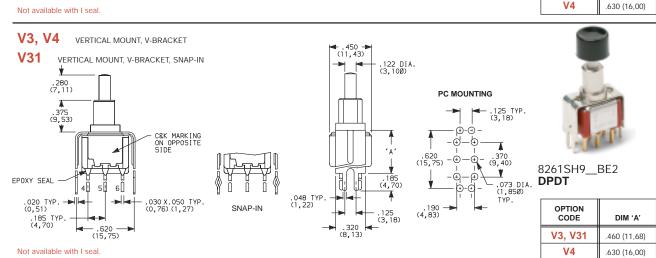
NOTE: PC pattern must clear switch support leg.

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







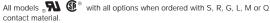


CONTACT MATERIAL		
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OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
В	GOLD 1	GOLD ¹	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
Р		MATTE-TIN ⁶	LOW LEVEL/DRY CIRCUIT	0.4 VA IVIAX. @ 20 V AC OR DC IVIAX.
Q	OUVED 45	SILVER ⁵	201152	6 AMPS @ 120 V AC OR 28 V DC;
S	S SILVER 4,5 MATTE-	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.
- $^{2}\ \mbox{END}$ 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.
- $^{\rm 5}$ 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 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.

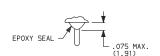
K, L and M options represent Non RoHS tin lead product and are not recommended for new designs. For additional information please contact Customer Service.



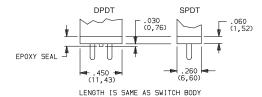


SEAL

EPOXY SEAL



EPOXY POTTED BASE



NOTE: Available with C. W. 7, 73 terminations only.

