

### Features/Benefits

- Process sealed, withstands soldering and cleaning
- Long life contact design
- Snap-fitting plunger available, accepts a variety of caps
- RoHS compliant models available

### Typical Applications

- Instrumentation
- Telecommunications and networking equipment
- Computers and peripherals



### **Specifications**

CONTACT RATING: Q contact material: 4 AMPS @ 125 V AC or 28 V DC. See page A-50 for additional ratings.

ELECTRICAL LIFE: 40,000 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: 1000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 75°C.

CAP INSTALLATION FORCE: 10 lbs. max. permissible.

SOLDERABILITY: Per MIL-STD-202F method 208D, or

EIA RS-186E method 9 (1 hour steam aging).

NOTE: Any models supplied with P, 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 & BUSHING: Glass filled nylon 6/6, flame retardant (UL 94V-0).

PLUNGER: Glass filled nylon or glass filled polyester (PBT) (UL 94V-0), with internal o-ring seal standard.

SWITCH SUPPORT: Brass or steel, matte-tin plated.

SWITCH SUPPORT RETAINER: Stainless steel.

END CONTACTS: Q contact material: Coin silver, silver plated. See A-50 for additional ratings.

CENTER CONTACTS & ALL TERMINALS: Q contact material: Copper alloy, silver plated. See page A-50 for additional ratings.

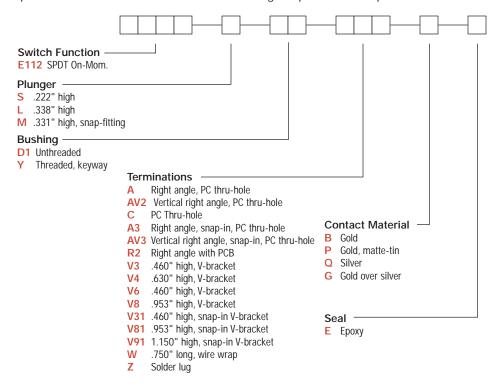
TERMINAL SEAL: Epoxy.

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-47 thru A-51. For additional options not shown in catalog, consult Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.

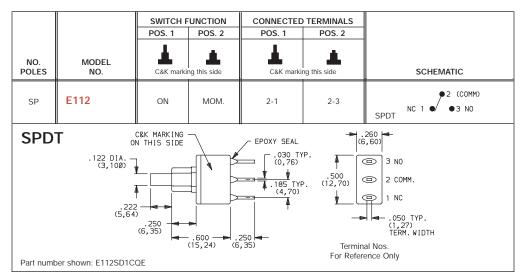




Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



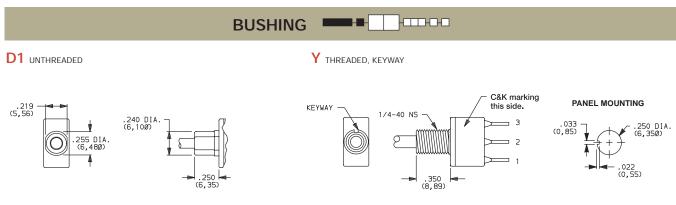
## SWITCH FUNCTION .....



MOM. = Momentary 
All models  ${}_{\odot}$   ${}^{\odot}$  with all options when ordered with G or Q contact material.

# S 218" HIGH L .338" HIGH M .331" HIGH, SNAP-FITTING 122 DIA. (3, 100) (3, 100) Standard with D1 bushing (as shown). † Subtract .100 (2,54) from plunger length when ordered with Y bushing.

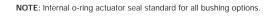
NOTE: Caps available for all plunger options, see pages A-50 and A-51.



S plunger standard with D1 bushing.

L plunger standard with Y bushing. Available only with C, Z terminations. Hardware: One dress nut part number 780701201, one hex nut and lockwasher supplied standard.

Withstands 4 in./lbs. without distortion.





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



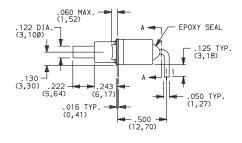
### **TERMINATIONS** PC THRU-HOLE SOLDER LUG WIRE WRAP PC MOUNTING EPOXY SEAL EPOXY SEAL EPOXY SEAL .250 (6,35) .750 .189 .030 THK. (19,05).030 THK. **SPDT SPDT SPDT** Not available with P contact materials.

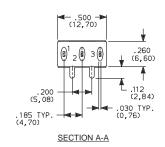
RIGHT ANGLE, PC THRU-HOLE



**SPDT** 

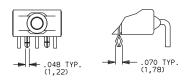


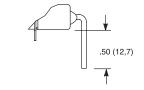


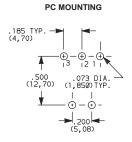


**A3** RIGHT ANGLE, SNAP-IN, PC THRU-HOLE

**AW** RIGHT ANGLE, EXTENDED, PC THRU-HOLE

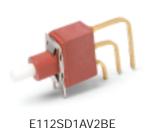




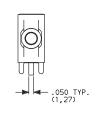


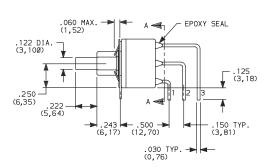
NOTE: Terminal bend radii and lead-in manufacturing option Available with D1 bushing only.

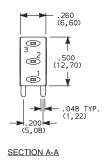




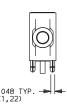
**SPDT** 

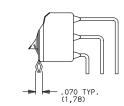


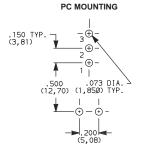




AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH







**NOTE:** Terminal bend radii and lead-in manufacturing option. Available with D1 bushing only.



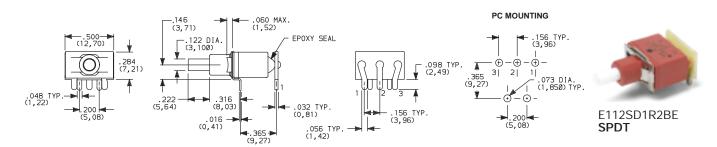
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

Third Angle



# TERMINATIONS ---

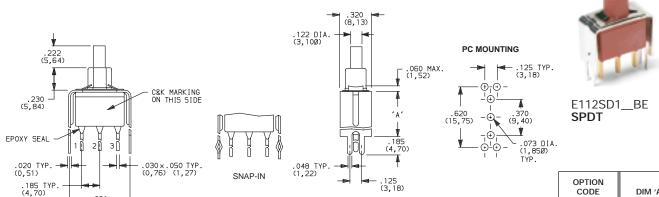
RIGHT ANGLE WITH PCB



NOTE: Available with D1 bushing and B contact material only.

V3, V4 VERTICAL MOUNT, V-BRACKET

V31, V91 VERTICAL MOUNT, V-BRACKET, SNAP-IN



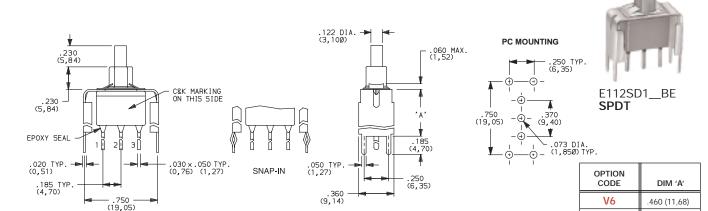
OPTION CODE	DIM 'A'	
V3, V31	.460 (11,68)	
V4	.630 (16,00)	
V91	1.150 (29,21)	

NOTE: Available with D1 bushing only.

V6, V8 VERTICAL MOUNT, V-BRACKET

- .620 -(15,75)

V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



NOTE: Available with D1 bushing only.



.953 (24,21)

V8, V81



### CONTACT MATERIAL



OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
В	2017.1	GOLD <sup>1</sup>		
Р	GOLD <sup>1</sup>	MATTE-TIN 6	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
Q	SILVER 4,5	SILVER 5	POWER	4 AMPS @ 125 V AC 0R 28 V DC.
G	GOLD OVER SILVER 2,3	GOLD <sup>3</sup>	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 VA MAX. @ 20 V AC OR DC MAX. OR 4 AMPS @ 125 V AC 0R 28 V DC.

<sup>\*</sup> Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- <sup>1</sup> 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: Coin silver, with gold plate over nickel plate.
- <sup>4</sup> END CONTACTS: Coin silver, silver plated.
- $^{\rm 5}$  CENTER CONTACTS & ALL TERMINALS: Copper alloy, silver plated.
- <sup>6</sup> TERMINALS: Copper alloy, with matte-tin over nickel plate.

NOTE: Any models supplied with P, Q, B or G contact material are RoHS compliant.

All models  ${}_{\circ}$   ${\mathfrak A}$   ${\mathfrak A}$  with all options when ordered with G or Q contact material.

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

B contact material must be ordered with R2 terminations.

Q contact material standard with C, Z terminations.

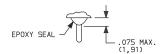
P contact materials not available with Z terminations.

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.



Ε

EPOXY SEAL





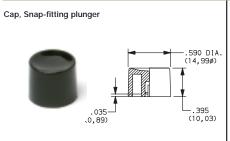
**NOTE:** Additional nuts, locking rings and lockwashers available separately, see section "Technical Data and Additional Hardware". Other cap colors available, consult Customer Service Center.





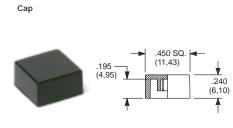
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### **AVAILABLE HARDWARE**









PART NO. PART NO. **798201000** WHITE 484601000 WHITE 484602000 BLACK 798202263 BLACK 484603000 RED 798203000 RED Material: Nylon

Material: Nylon Finish: Matte

Finish: Gloss

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

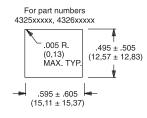
Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.

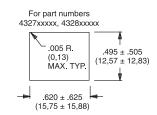
TYPICAL APPLICATION





### PANEL MOUNTING

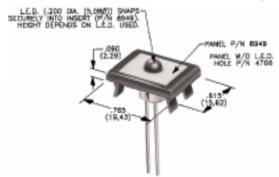




Panel Inserts

Finish: Gloss

Above frames (part nos. 432XXXXXX) are also available with insert which accepts LED for indicator light assembly. Order insert separately from frame. Blank insert panel (without hole for LED) also available. LED not included.



PANEL INSERT WITH HOLE FOR LED

BLANK PANEL INSERT WITHOUT HOLE FOR LED

PART NO. 894901000 894902000

894903000

PART NO. 476601000

476602000 476603000

WHITE BLACK RED

Special colors, custom markings available, consult Customer Service Center.



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

