

## 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

c Sus Models Available

### **Specifications**

Materials

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 mΩ 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.

- 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.

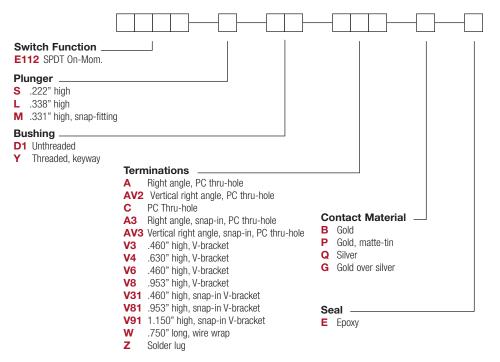
CENTER CONTACTS & ALL TERMINALS: Q contact material: Copper alloy, silver plated. See page A-50 for additional ratings.

### TERMINAL SEAL: Epoxy.

HARDWARE: Nut & locking ring-Brass, nickel plated. Lockwasher-Steel, nickel plated.

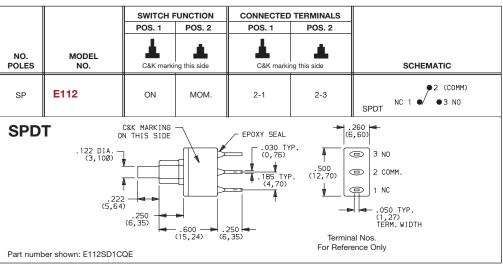
## **Build-A-Switch**

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.





## SWITCH FUNCTION



MOM. = Momentary

All models with all options when ordered with G or Q contact material. 

> PLUNGER

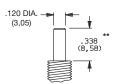
### S .218" HIGH



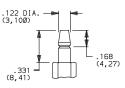
Standard with D1 bushing (as shown). † Subtract .100 (2,54) from plunger length when ordered with Y bushing.

# .338" HIGH

with D1 bushing.



M .331" HIGH, SNAP-FITTING



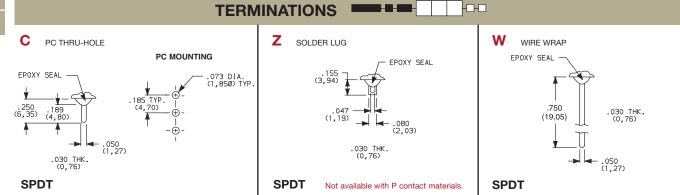
Standard with Y bushing (as shown).

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

\*\* Add .100 (2,54) from plunger length when ordered

#### -----**BUSHING** . . D1 UNTHREADED Y THREADED, KEYWAY C&K marking PANEL MOUNTING .219 KEYWAY this side. 1/4-40 NS .240 DIA. (6.10Ø) 3 .033 ţ .250 DIA. (6,350) .255 DIA (6,480) 2 .022 .350 (8,89) (6, S plunger standard with D1 bushing. L plunger standard with Y bushing. Available only with C, Z terminations. Hardware: One dress nut part number 299D01201, one hex nut and lockwasher supplied standard. Withstands 4 in./lbs. without distortion. Third Angle Projection NOTE: Internal o-ring actuator seal standard for all bushing options.





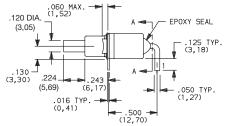
Α RIGHT ANGLE, PC THRU-HOLE



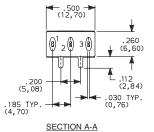
**A3** 



.070 TYP. (1,78)



.50 (12,7)



AW RIGHT ANGLE, EXTENDED, PC THRU-HOLE

PC MOUNTING

⊕ ₁2

.073 .85Ø - (+)

200

(5.08)

.260 (6,60)

4

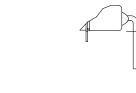
.500

V

.048 TYP. (1,22)

.185 TYP. (4,70)

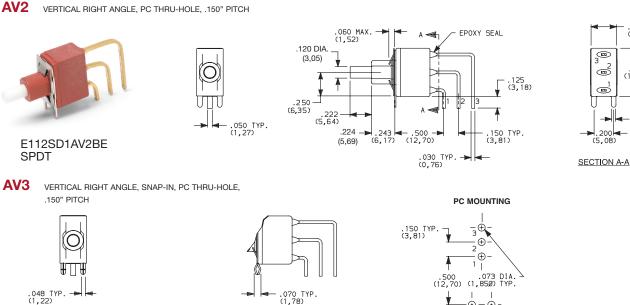
.500



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

.048 TYP. (1,22)

RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



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

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H.200⊨ (5,08)

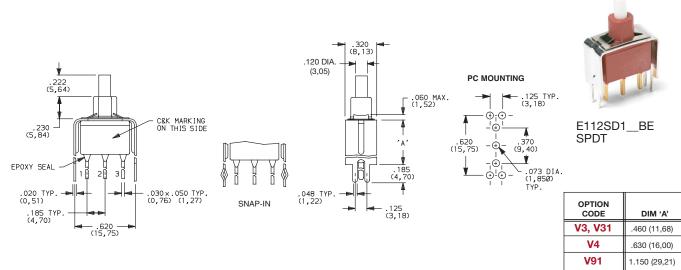
Third Angle Projection



TERMINATIONS

V3, V4 VERTICAL MOUNT, V-BRACKET

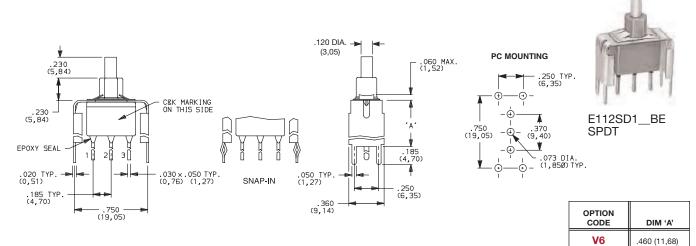
V31, V91 VERTICAL MOUNT, V-BRACKET, SNAP-IN



NOTE: Available with D1 bushing only.

V6, V8 VERTICAL MOUNT, V-BRACKET

V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



NOTE: Available with D1 bushing only.



V8, V81

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

.953 (24,21)



## CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
В	GOLD <sup>1</sup>	GOLD <sup>1</sup>	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
Р		MATTE-TIN 6		
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.

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

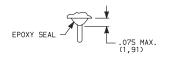
- <sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.
- <sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Coin silver, with gold plate
- over nickel plate.
- <sup>4</sup> END CONTACTS: Coin silver, silver plated.
- <sup>5</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, silver plated.
- <sup>6</sup> TERMINALS: Copper alloy, with matte-tin over nickel plate.

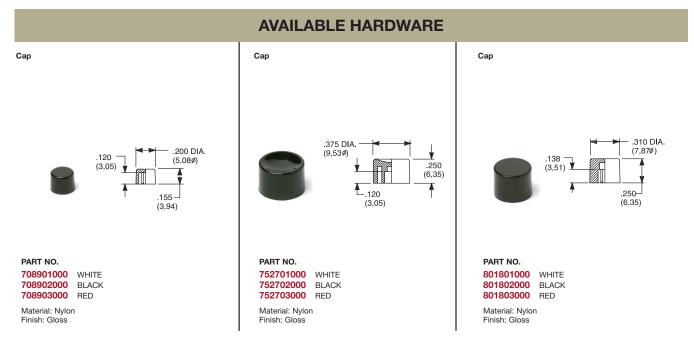
### NOTE: Any models supplied with P, Q, B or G contact material are RoHS compliant.

All models **CNUS** with all options when ordered with G or Q contact material. B contact material standard with all terminations except C, Z. Q contact material standard with C, Z terminations.

- Q contact material standard with C, Z terminations.
- P contact materials not available with Z terminations.
- SEAL

E EPOXY SEAL



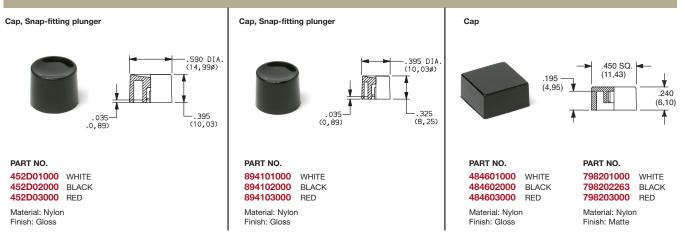


NOTE: Additional nuts, locking rings and lockwashers available separately, see section "Technical Data and Additional Hardware". Other cap colors available, consult Customer Service Center.





# **AVAILABLE HARDWARE**



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.





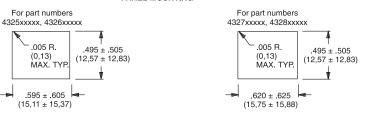
### .090" (2,29) PANEL THK.

PART NO. 432702263

.005 R.

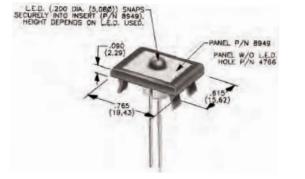
.125" (3,18) PANEL THK. PART NO. 432802263 BLACK

PANEL MOUNTING



Panel Inserts

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. 894902000 PART NO. 476602000 BLACK

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

