#### 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

Materials

### **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 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.

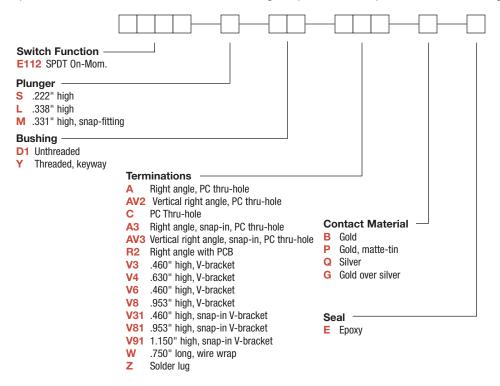
CENTER CONTACTS & ALL TERMINALS: Q contact material: Copper alloy, silver plated. See page A-50 for additional ratings.

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.





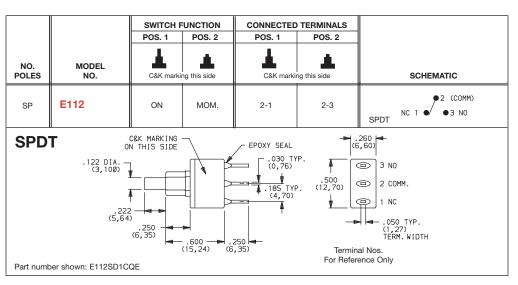
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

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A

Pushbutton

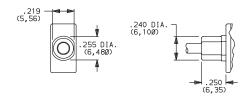
SWITCH FUNCTION



MOM. = Momentary

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

PLUNGER S .218" HIGH L .338" HIGH M .331" HIGH, SNAP-FITTING .122 DIA. -(3,100) .122 DIA. -(3,100) .122 DIA. (3.100) .338 .22 .168 .331 Standard with D1 bushing (as shown). Standard with Y bushing (as shown). \*\* Add .100 (2,54) from plunger length when ordered † Subtract .100 (2,54) from plunger length when ordered with Y bushing. with D1 bushing. NOTE: Caps available for all plunger options, see pages A-50 and A-51. ----\_\_\_ **BUSHING** Y THREADED, KEYWAY D1 UNTHREADED



.350 (8,89)

1/4-40 NS

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.

C&K marking

- 3

2

this side.

Le K

NOTE: Internal o-ring actuator seal standard for all bushing options.

KEYWAY

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

PANEL MOUNTING

.250 DIA. (6,350)

.022

.033

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Third Anale

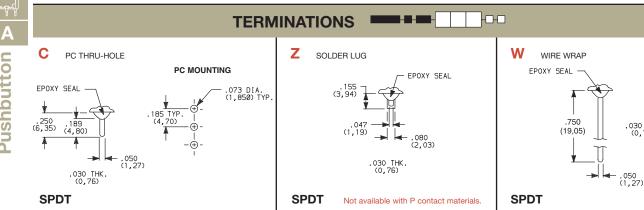
Projection





S plunger standard with D1 bushing.





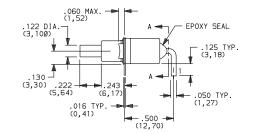
Α RIGHT ANGLE, PC THRU-HOLE



**A3** 

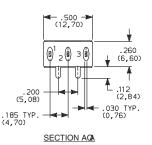


.070 TYP. (1,78)



.50 (12,7)

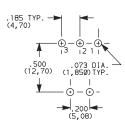
A



.030 THK. (0,76)

AW RIGHT ANGLE, EXTENDED, PC THRU-HOLE

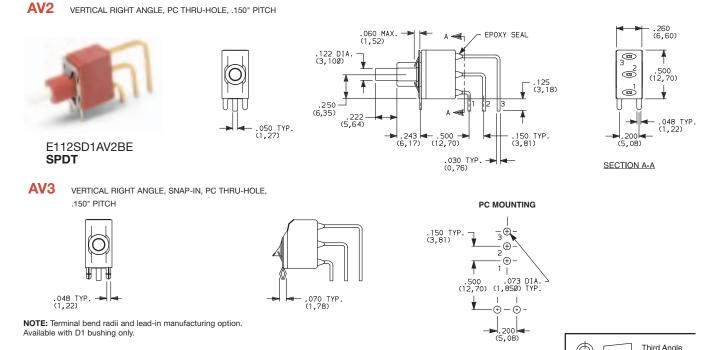
PC MOUNTING



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

.048 TYP.

RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



# 2

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

Pushbutton >

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Projection

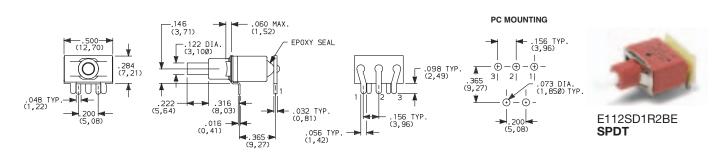
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Pushbutton

TERMINATIONS

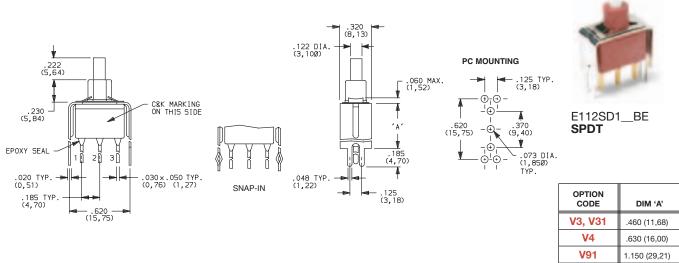
R2 RIGHT ANGLE WITH PCB

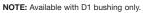


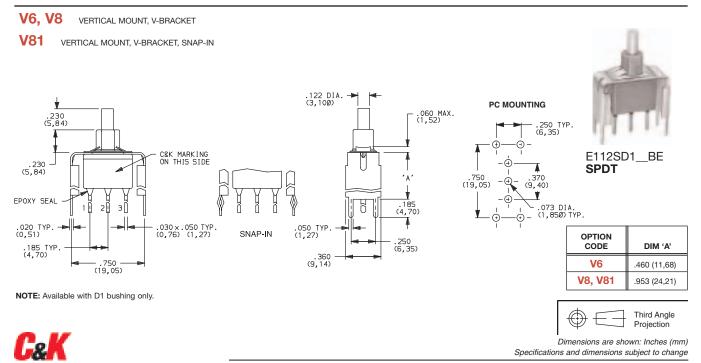
NOTE: Available with D1 bushing and B contact material only.

V3, V4 VERTICAL MOUNT, V-BRACKET

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







CONTACT MATERIAL

SEAL

	OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
	В	GOLD <sup>1</sup>	GOLD 1	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.
Γ	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.

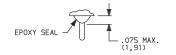
NOTE: Any models supplied with P, Q, B or G contact material are RoHS compliant.

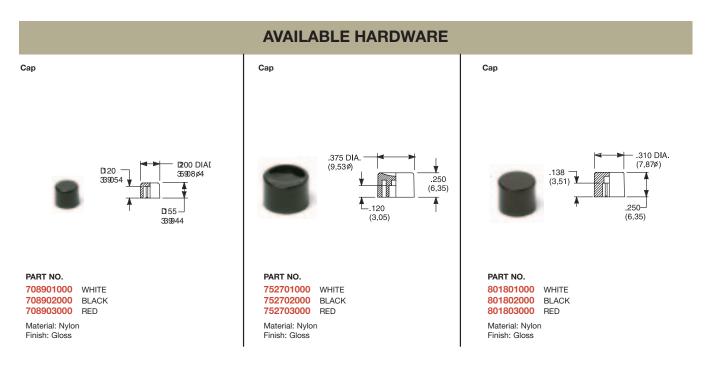
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- All models  ${}_{\circ}\mathbf{R}$   ${}_{\circ}\mathbf{R}$  with all options when ordered with G or Q contact material.
- B contact material standard with all terminations except C, Z.
- B contact material must be ordered with R2 terminations.
- 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.







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



1

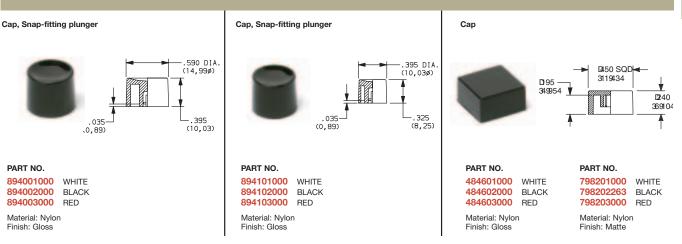
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Third Angle

Projection

**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.







.047" (1,19) PANEL THK.

.005 R.

(0.13)

.062" (1,57) PANEL THK. PART NO.

432602263

432603000

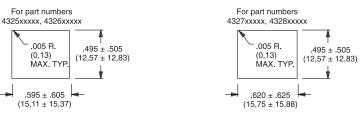
432601000

.090" (2,29) PANEL THK. PART NO.

> 432801000 WHITE 432802263 BLACK 432803000 RED

.125" (3,18) PANEL THK.

PANEL MOUNTING



PART NO.

432701000

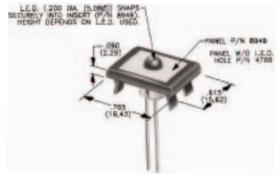
432702263

432703000

Panel Inserts

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Above frames (part nos. 432XXXXX) 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.



PART NO.	
894901000	

PANEL INSERT WITH HOLE FOR LED BLANK PANEL INSERT WITHOUT HOLE FOR LED

894902000 894903000

476601000 WHITE 476602000 BLACK 476603000 RFD

PART NO.



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



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Pushbutton

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