

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-48 for additional ratings.

ELECTRICAL LIFE: 40,000 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: 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. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

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-48 for additional ratings.

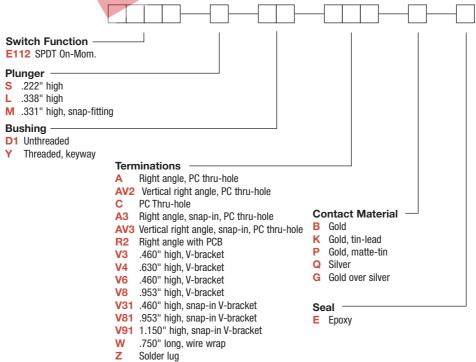
CENTER CONTACTS & ALL TERMINALS: Q contact material: Copper alloy, silver plated. See page A-48 for additional ratings.

TERMINAL SEAL: Epoxy.

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

Build-A-Switch

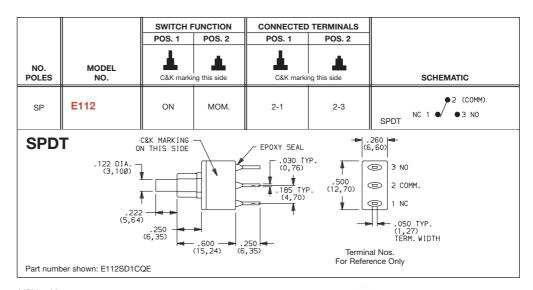
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-45 thru A-49. For additional options not shown in catalog, consult Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.



A-44



10-00-00 **SWITCH FUNCTION**



MOM. = Momentary

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

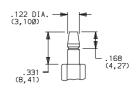




Standard with Y bushing (as shown).

** Add .100 (2,54) from plunger length when ordered with D1 bushing.

M .331" HIGH, SNAP-FITTING



NOTE: Caps available for all plunger options, see pages A-48 and A-49.

BUSHING

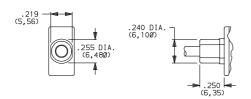
D1 UNTHREADED

with Y bushing.

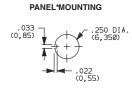
Standard with D1 bushing (as shown).

† Subtract .100 (2,54) from plunger length when ordered

Y THREADED, KEYWAY



C&K marking KEYWAY this side. 1/4-40 NS



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.

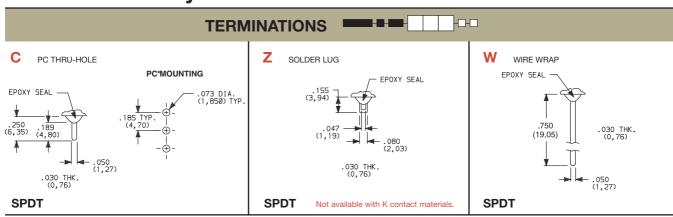
NOTE: Internal o-ring actuator seal standard for all bushing options.

A-45







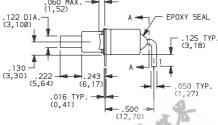


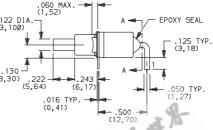


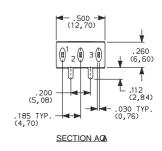


E112SD1ABE **SPDT**

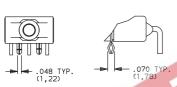






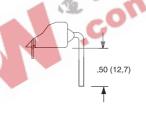


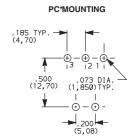
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



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

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

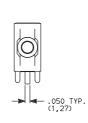


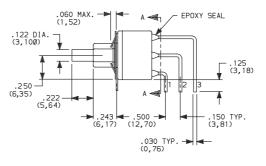


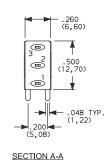
VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



E112SD1AV2BE SPDT

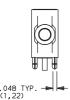




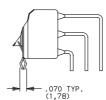


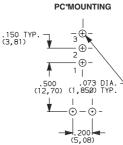
AV3

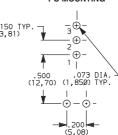
VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



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





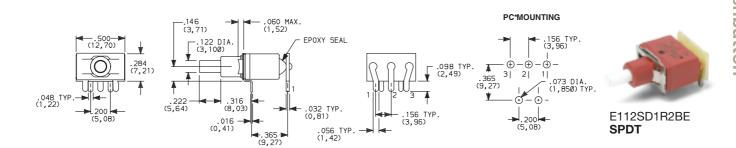






TERMINATIONS

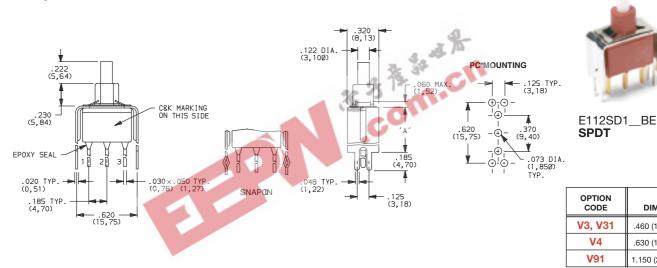
RIGHT ANGLE WITH PCB



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

V3, V4 VERTICAL MOUNT, V-BRACKET

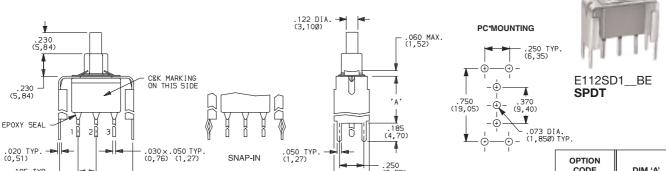
V31, V91 VERTICAL MOUNT, V-BRACKET, SNAP-IN



NOTE: Available with D1 bushing only.

VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN



.360

OPTION CODE DIM 'A' **V6** .460 (11,68) V8, V81 .953 (24,21)

DIM 'A'

.460 (11,68)

.630 (16,00) 1.150 (29,21)

NOTE: Available with D1 bushing only.



Projection

Specifications and dimensions subject to change

Third Angle



CONTACT MATERIAL



OPTION CODE	RoHS COMPLIANT *	RoHS COMPATIBLE *	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
В	YES	YES		GOLD ¹		
K	NO	YES	GOLD ¹	TIN-LEAD 6	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
Р	YES	YES		MATTE-TIN ⁷		
Q	YES	YES	SILVER ^{4,5}	SILVER ⁵	POWER	4 AMPS @ 125 V AC 0R 28 V DC.
G	YES	YES	GOLD OVER SILVER ^{2,3}	GOLD ³	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.

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

NOTE: Any models supplied with P, Q, B or G contact material are RoHS compliant. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

All models 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.

K, P contact materials not available with Z terminations



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

752703000

Material: Nylon

Finish: Gloss



708903000

Material: Nylon

Finish: Gloss

RED



801803000

Material: Nylon

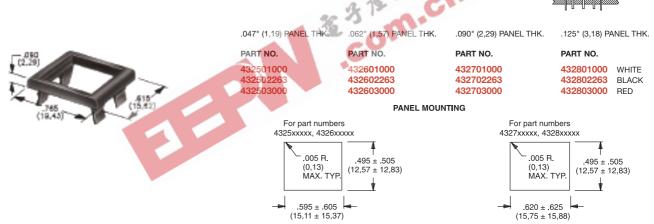
Finish: Gloss

AVAILABLE HARDWARE Cap, Snap-fitting plunger Cap, Snap-fitting plunger Cap 590 DIA .395 DIA (10,03ø) 1450 SQD **D**195 349954 **12**40 369104 -.395 (10,03) .035 .325 .035 (0,89) (8.25)PART NO. PART NO. PART NO. PART NO. 894001000 894101000 484601000 798201000 WHITE WHITE WHITE WHITE 894002000 894102000 484602000 798202263 BLACK BLACK BLACK BLACK 894003000 RED 894103000 RED 484603000 RED 798203000 RED Material: Nylon Material: Nylon Material: Nylon Material: Nylon Finish: Gloss Finish: Gloss Finish: Gloss Finish: Matte

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

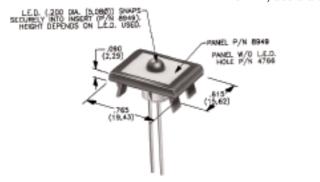
Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon.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

TYPICAL'APPLICATION



Panel 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.

894901000 894902000 894903000 PART NO. 476601000

476601000 WHITE **476602000** BLACK **476603000** RED

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



