

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 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.

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.

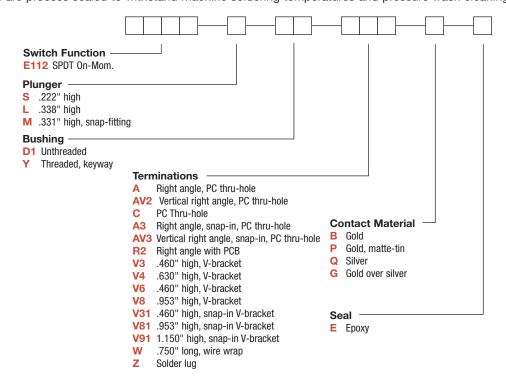
TERMINAL SEAL: Epoxy.

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.

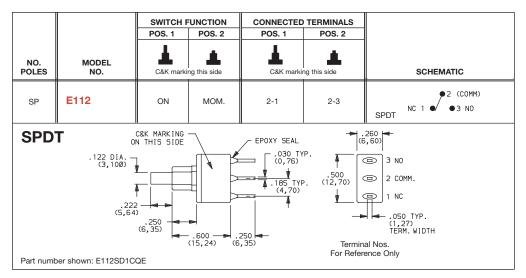




E010 Series

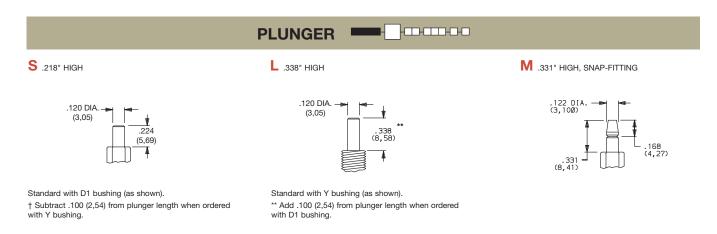
Sealed Momentary Pushbutton Switches

SWITCH FUNCTION

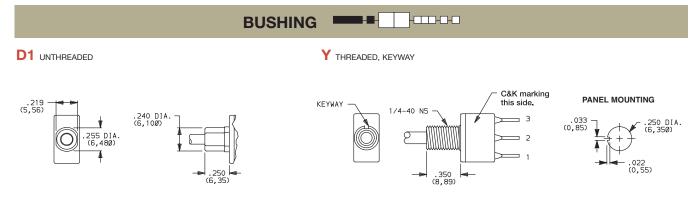


MOM. = Momentary

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



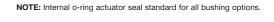
NOTE: Caps available for all plunger options, see pages A-50 and A-51.



S plunger standard with D1 bushing.

L plunger standard with Y bushing. Available only with C, Z terminations. Hardware: One dress nut part number 299D01201, one hex nut and lockwasher supplied standard.

Withstands 4 in./lbs. without distortion.





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



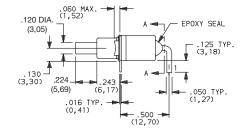
TERMINATIONS C PC THRU-HOLE SOLDER LUG WIRE WRAP PC MOUNTING EPOXY SEAL EPOXY SEAL EPOXY SEAL .750 (19,05) .189 (4,80) .030 THK. (0,76) .047 .030 THK. (0,76) **SPDT SPDT SPDT** Not available with P contact materials.

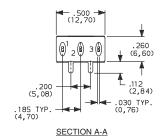
A RIGHT ANGLE, PC THRU-HOLE



E112SD1ABE SPDT



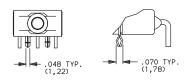




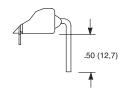
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE

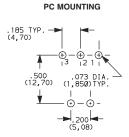
AW

RIGHT ANGLE, EXTENDED, PC THRU-HOLE



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

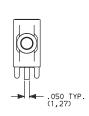


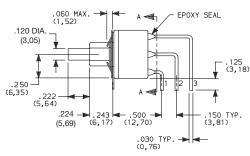


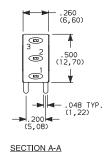
AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



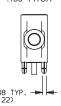
E112SD1AV2BE SPDT



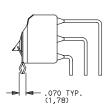


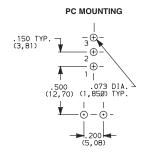


AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



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





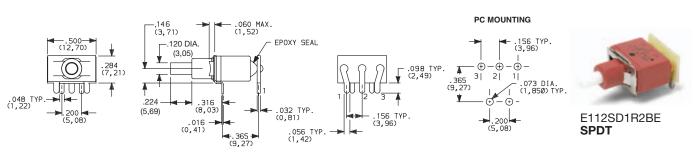


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



TERMINATIONS ----

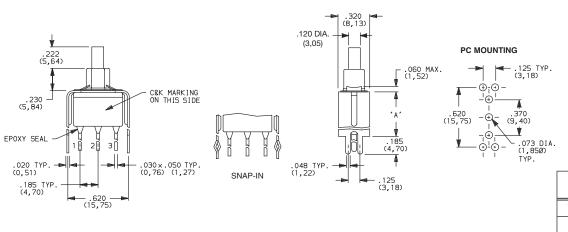
R2 RIGHT ANGLE WITH PCB



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

V3, V4 VERTICAL MOUNT, V-BRACKET

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





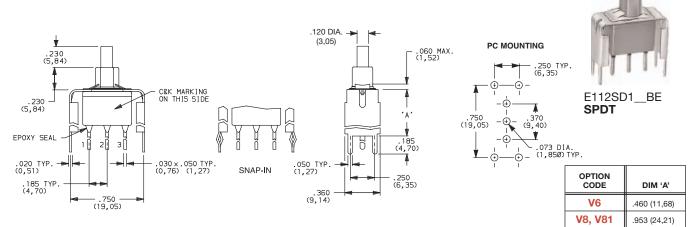
E112SD1_BE SPDT

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

V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



NOTE: Available with D1 bushing only.



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



CONTACT MATERIAL

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	
Р		MATTE-TIN ⁶		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 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.
- $^{\rm 3}$ CENTER CONTACTS & ALL TERMINALS: Coin silver, with gold plate over nickel plate.
- $^{\rm 4}$ END CONTACTS: Coin silver, silver plated.
- ⁵ CENTER CONTACTS & ALL TERMINALS: Copper alloy, silver plated.
- ⁶ TERMINALS: Copper alloy, with matte-tin over nickel plate.

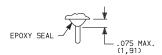
NOTE: Any models supplied with P, Q, B or G contact material are RoHS compliant.

All models • N 🍪 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.
- $\ensuremath{\mathsf{Q}}$ contact material standard with $\ensuremath{\mathsf{C}},\ensuremath{\mathsf{Z}}$ terminations.
- P contact materials not available with Z terminations



E EPOXY SEAL



AVAILABLE HARDWARE Сар Cap Cap 375 DIA .200 DIA (9,53¢) (7.87%).120 (5,08ø) .250 (6,35) .120 .250-.155 -(3,94)PART NO. PART NO. PART NO. 708901000 WHITE 752701000 WHITE 801801000 WHITE 708902000 BLACK 801802000 BLACK 752702000 BLACK 801803000 RED 708903000 RED 752703000 RED Material: Nylon Material: Nylon Material: Nylon Finish: Gloss Finish: Gloss 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.



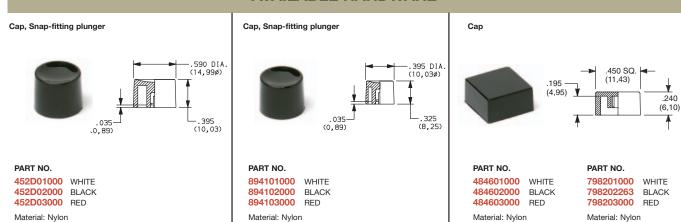
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



Sealed Momentary Pushbutton Switches

E010 Series

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.

Finish: Gloss

TYPICAL APPLICATION

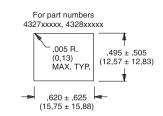
Finish: Matte

.047" (1.19) PANEL THK. .062" (1.57) PANEL THK. .090" (2.29) PANEL THK. 125" (3 18) PANEL THK PART NO. PART NO. PART NO. PART NO. 432502263 432602263 432702263 432802263 BLACK

PANEL MOUNTING

Finish: Gloss

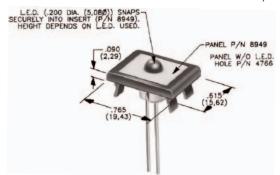
For part numbers 4325xxxxx. 4326xxxxx .005 R. 495 ± .505 (0,13) MAX. TYP $(12,57 \pm 12,83)$ 595 + 605



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.

PART NO.

894902000

476602000 BLACK

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



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

