Features/Benefits

- Process sealed with disposable splashproof boot
- Long life contact design
- Snap-fitting plunger available
- RoHS compliant models available



Models Available

Specifications

Materials

Typical Applications

Telecommunications and

Computers and peripherals

networking equipment

Instrumentation

CONTACT RATING: B contact material (EX25 Models): 0.4 VA max. @ 20 V AC or DC max. G contact material (EX21 Models): 1 AMP @120 V AC or 28 V DC or 0.4 VA max. @ 20 V AC or DC max. Note: Break-before-make contacts. Multi-pole contacts do not make and break simultaneously. See page A-26 for additional ratings.

ELECTRICAL LIFE: 60,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 50 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, R, 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).

SWITCH SUPPORT: Brass or steel, matte-tin.

SWITCH SUPPORT RETAINER: Stainless steel.

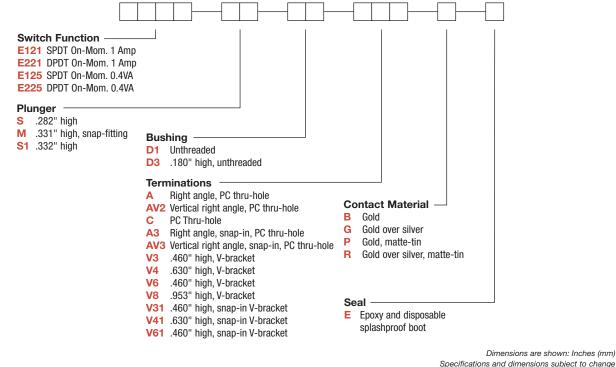
- N.O. & N.C. CONTACTS: EX25 MODELS: B contact material: Copper alloy, with gold plate over nickel plate. EX21 MODELS: G contact material: Coin silver, with gold plate over nickel plate. See page A-26 for additional contact materials.
- COMMON CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate. See page A-26 for additional contact materials.

TERMINAL SEAL: Epoxy.

DISPOSABLE BOOT: Vinyl splashproof boot supplied standard. Remove and discard only after soldering and cleaning processes are complete.

Build-A-Switch

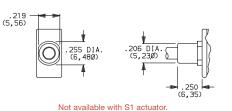
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-22 thru A-28. For additional options not shown in catalog, consult our Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.





SWITCH FUNCTION SWITCH FUNCTION CONNECTED TERMINALS POS. 1 POS. 2 POS. 1 POS. 2 ۰. 1 MODEL NO. NO. POLES SCHEMATIC C&K marking this side C&K marking this side E121 мом ON 1 (COMM) SP 1-3 1-2 •2 N0 NC 3 E125 ON MOM. SPDT DISPOSABLE BOOT C&K MARKING ON THIS SIDE SPDT ► .260 < EPOXY SEAL .030 TYP. (0,76) .122 DIA. · (3,100) 🗇 3 NC ┪ .185 TYP. (4,70) .500 • 2 NO Ā 1 COMM. A .282 .050 TYP. — (1,27) TERM. WIDTH .250 -.600 --(15,24) .250 (6,35) Terminal Nos. Part number shown: E121SD1CGE For Reference Only E221 ON MOM. (COMM) DP 1-3 4-6 1-2 4-5 NC 3 •2 NO NC 6 ୶ • 5 NO E225 ON MOM. DPDT .060 C&K MARKING ON THIS SIDE DPDT DISPOSABLE ⊢.450 ⊣ (11,43) EPOXY SEAL BOOT .030 TYP. (0,76) .122 DIA. (3,10Ø) 6 **@** З NC .500 ۲ 2 NO 185 TYP (4,70) 185 A ۲ ✐ 1 COMM. .282 (7,16) TYP (1,27) TERM. WIDTH .190 TYP. (4,83) .250 (6,35) -.600 — (15,24) .250 📥 (6,35) Terminal Nos Part number shown: E221SD1CBE For Reference Only EX25 models must be ordered with B or P contact material. MOM. = Momentary EX21 models must be ordered with G or R contact material E121, E221 models R & with all options when ordered with G or R contact material. **PLUNGER** S .282" HIGH S1 .332" HIGH M .332" HIGH SNAP-FITTING .122 DIA. (3,100) .122 DIA. → .122 DIA. (3.100) .282 (7,16) WITH D1 BUSHING 332 (8,43) WITH D1 BUSHING .192 (4,88) WITH D3 BUSHING .332 (8,43) 381 (9.68) WITH D3 BUSHING .168 (4**,**27) 4 Not Available with D1 bushing NOTE: Caps available for all plunger options, see page A-27. ------**BUSHING**

D1 UNTHREADED



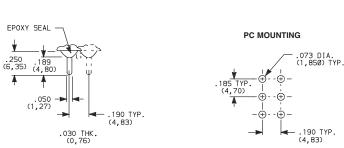


D3 .180" HIGH UNTHREADED

A-22

NOTE: Disposable splashproof vinyl over actuator and bushing supplied std., see page A-26.



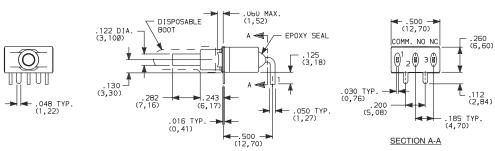


SPDT and DPDT

PC THRU-HOLE

С

A RIGHT ANGLE, PC THRU-HOLE



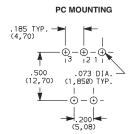


E121SD1AGE SPDT

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







PC MOUNTING

(-) - (-)

.073 DIA (1.850) TYP

 (\mathbf{f})

1.200 (5,08) (3,81)

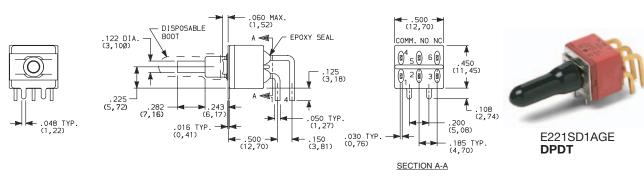
.185 TYP. (4,70)

.500

¥

NOTE: Terminal bend radii and lead-in manufacturing option.

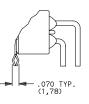
A RIGHT ANGLE, PC THRU-HOLE



A3

RIGHT ANGLE, SNAP-IN, PC THRU-HOLE





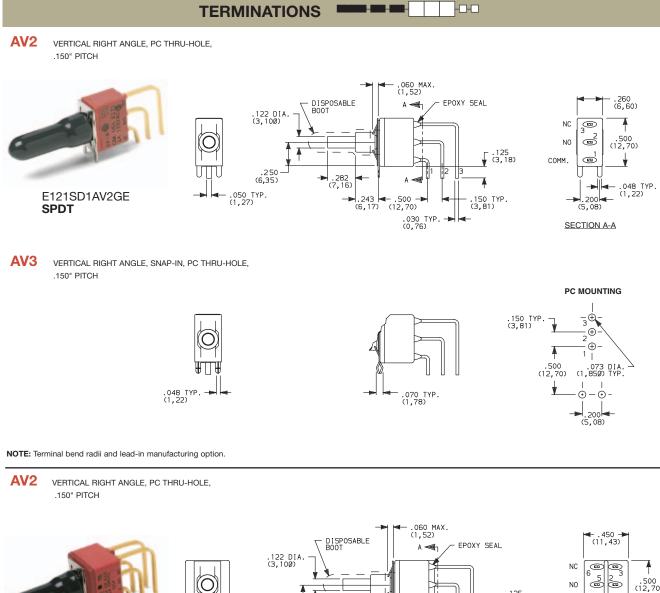
NOTE: Terminal bend radii and lead-in manufacturing option.

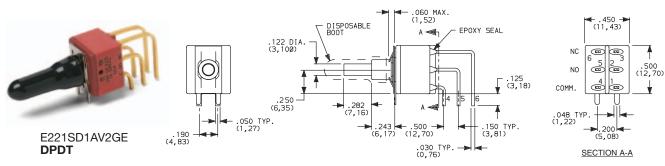


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

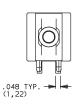
Third Angle Projection

Pushbutton >





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



NOTE: Terminal bend radii and lead-in manufacturing option.



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

PC MOUNTING

P. $-3 \oplus -6 \oplus 2 \oplus -9 \oplus -2 \oplus -9 \oplus -$ -1 + 4 + -500(12,70) (1,850) TYP.

(-) (-) (-)

۷

.150 TYP. (3,81) .190 TYP. (4,83)

.200 (5,08)

> Third Angle Projection

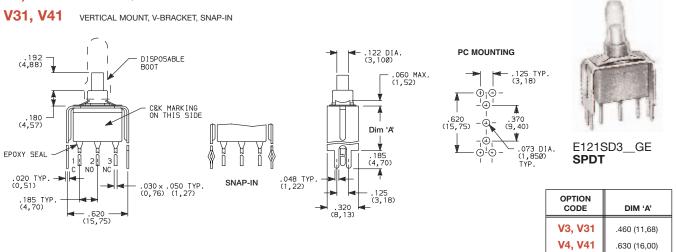
- .070 TYP. (1,78)

A

Pushbutton

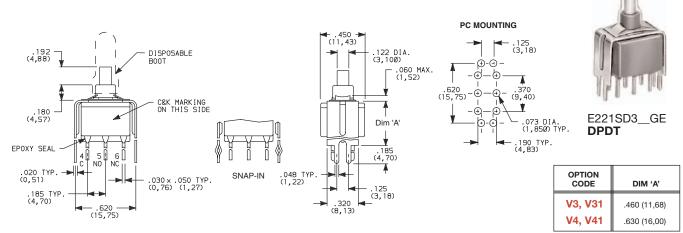
TERMINATIONS

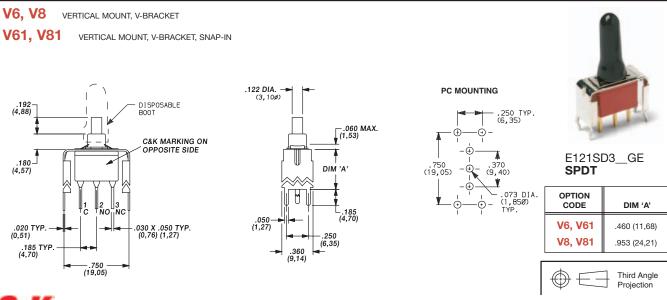
V3, V4 VERTICAL MOUNT, V-BRACKET



V3. V4 VERTICAL MOUNT, V-BRACKET







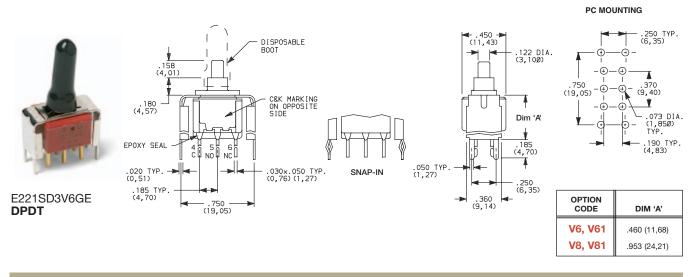


A-25

TERMINATIONS

V6, V8 VERTICAL MOUNT, V-BRACKET

V61, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
В	GOLD ¹	GOLD ¹	LOW LEVEL/DRY CIRCUIT	EX25 MODELS ONLY: 0.4 VA MAX. @ 20 V AC OR DC MAX.
Р	GOLD	MATTE-TIN ⁴		
G	GOLD OVER	GOLD ³	LOW LEVEL/DRY CIRCUIT OR POWER	EX21 MODELS ONLY: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 1 AMP @ 120 V AC OR 28 V DC.
R	SILVER ^{2,3}	MATTE-TIN ⁴		

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

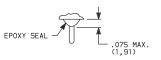
- ¹ CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- ² N.O. AND N.C. CONTACTS: Coin silver, with gold plate over nickel plate.
- ³ COMMON CONTACTS & ALL TERMINALS: Copper alloy, with gold plate
- over nickel plate. ⁴ TERMINALS: Copper alloy, with matte-tin alloy over nickel plate.

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

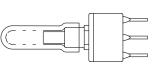
- E121, E221 models ${}_{\scriptscriptstyle \odot}$ with all options when ordered with mandatory
- G, or R contact material.
- P or B contact material must be ordered with EX25 models.
- R or G contact material must be ordered with EX21 models.



E EPOXY SEAL AND DISPOSABLE SPLASHPROOF BOOT



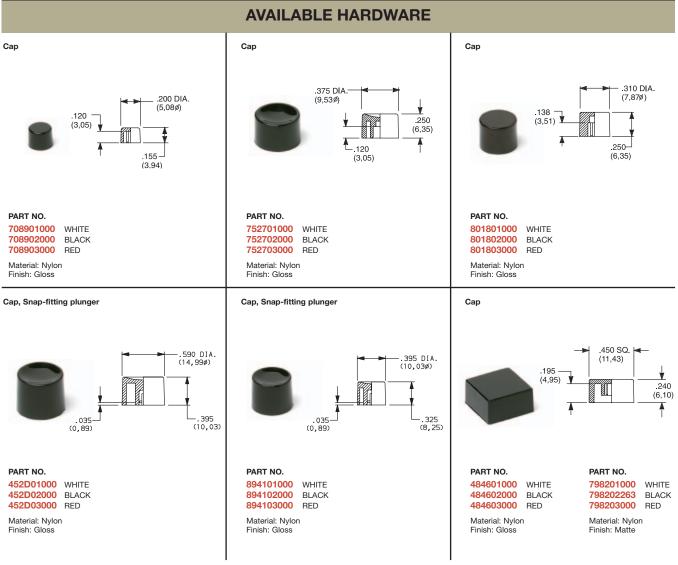
Disposable splashproof boot supplied standard. Remove and discard boot *only after* soldering and cleaning processes are complete.







A Pushbutton



NOTE: 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.

.005 R.

MAX. TYP.

.595 ± .605

(15,11 ± 15,37)

(0.13)





.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO. 432502263	PART NO. 432602263	PART NO. 432702263	PART NO. 432802263 BLACK
For part numbers 4325xxxxx, 4326xxxxx	PANEL MOUNTING	For part numbers 4327xxxxx, 4328xxxxx	



 $\begin{array}{c} 0.05 \text{ R.} \\ (0,13) \\ MAX. TYP. \end{array}$ $\begin{array}{c} .495 \pm .505 \\ (12,57 \pm 12,83) \\ .620 \pm .625 \\ (15,75 \pm 15,88) \end{array}$ $\begin{array}{c} \hline \\ Dimensions are shown: Inches (mm) \\ Specifications and dimensions subject to change \\ \end{array}$

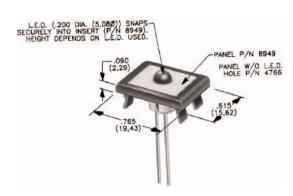
495 ± 505 (12,57 ± 12,83)

AVAILABLE HARDWARE

PANEL INSERTS

Pushbutton > 3

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.**

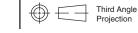


PANEL INSERT WITH HOLE FOR LED

PART NO. 894902000 BLANK PANEL INSERT WITHOUT HOLE FOR LED

PART NO. 476602000 BLACK

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





X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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