Features/Benefits

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

Typical Applications

- Instrumentation
- Telecommunications and networking equipment
- Computers and peripherals





Specifications

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 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, 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.

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).

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.

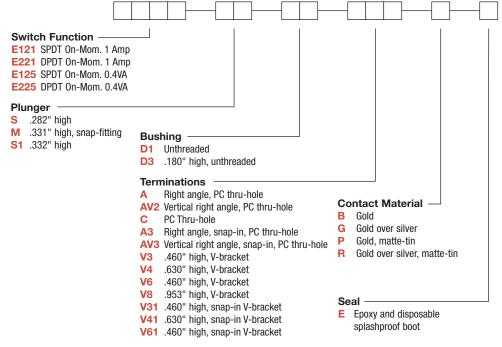
COMMON CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate. See page A-26 for additional contact materials.

TERMINAL SEAL: Epoxy.

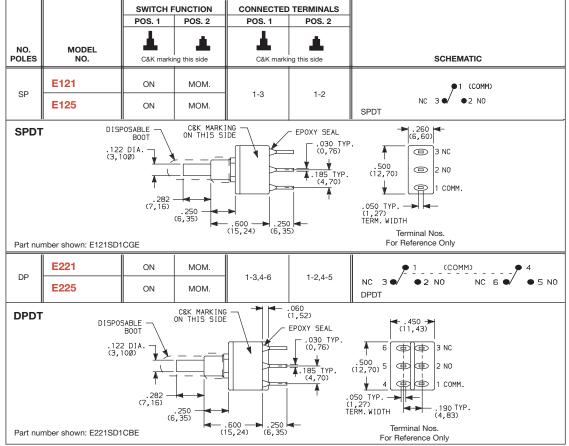
DISPOSABLE BOOT: Vinyl splashproof boot supplied standard. Remove and discard only after soldering and cleaning processes are complete.

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.







MOM. = Momentary
E121, E221 models

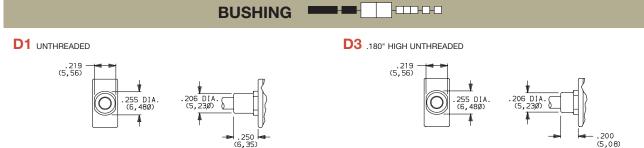
CAUS

with all options when ordered with G or R contact material.

EX25 models must be ordered with B or P contact material. EX21 models must be ordered with G or R contact material.



NOTE: Caps available for all plunger options, see page A-27.



Not available with S1 actuator

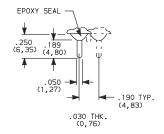
NOTE: Disposable splashproof vinyl over actuator and bushing supplied std., see page A-26.

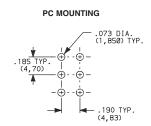




TERMINATIONS

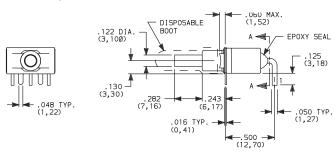
PC THRU-HOLE

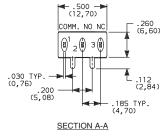




SPDT and DPDT

RIGHT ANGLE, PC THRU-HOLE





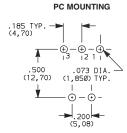


E121SD1AGE **SPDT**

RIGHT ANGLE, SNAP-IN, PC THRU-HOLE

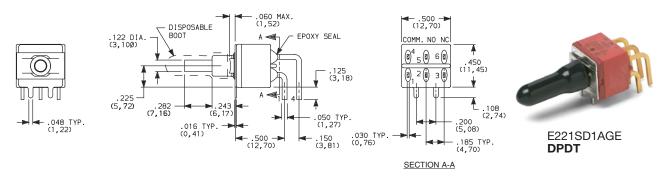






NOTE: Terminal bend radii and lead-in manufacturing option.

RIGHT ANGLE, PC THRU-HOLE



RIGHT ANGLE, SNAP-IN, PC THRU-HOLE





PC MOUNTING .500 (12,70)

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



Dimensions are shown: Inches (mm)

Third Angle

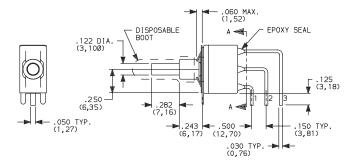
TERMINATIONS ---

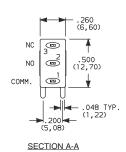
AV2

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

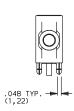


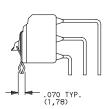
E121SD1AV2GE **SPDT**

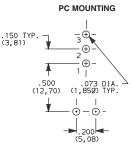




VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,



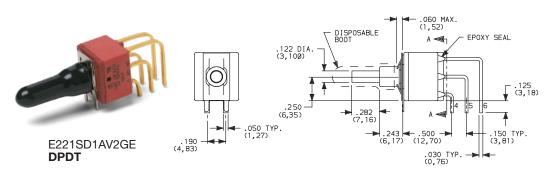


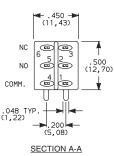


NOTE: Terminal bend radii and lead-in manufacturing option.

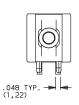
AV2

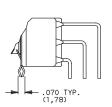
VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH

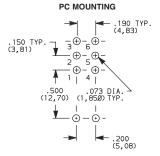




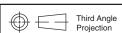
AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, 150" PITCH







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

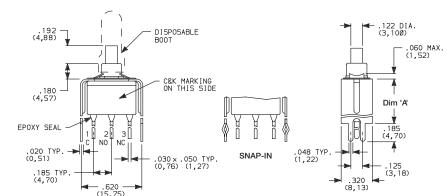


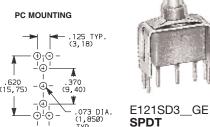


\Box **TERMINATIONS**

V3, V4 VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN



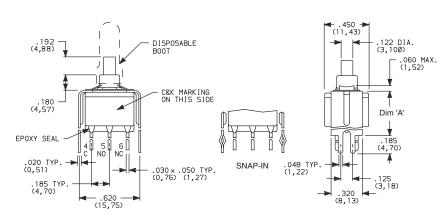


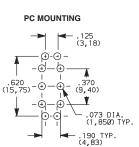


OPTION CODE	DIM 'A'	
V3, V31	.460 (11,68)	
V4, V41	.630 (16,00)	

V3, V4 VERTICAL MOUNT, V-BRACKET

V31, V41 VERTICAL MOUNT, V-BRACKET, SNAP-IN







DPDT OPTION DIM 'A'

V3, V31

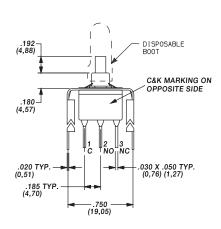
V4, V41

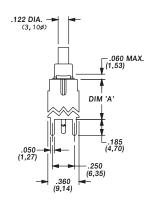
.460 (11,68)

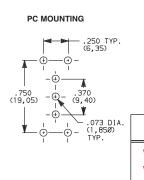
.630 (16,00)

V6, V8 VERTICAL MOUNT, V-BRACKET

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









E121SD3__GE SPDT

OPTION CODE	DIM 'A'
V6, V61	.460 (11,68)
V8, V81	.953 (24,21)

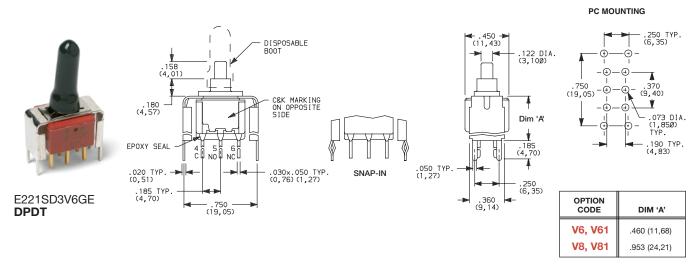




TERMINATIONS ---

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.	
Р	GOLD	MATTE-TIN ⁴	LOW LEVEL BITT OINCOIT	@ 20 V AC OR DC MAX.
G	GOLD OVER GOLD ³	LOW LEVEL/DRY CIRCUIT OR POWER	EX21 MODELS ONLY: 0.4 VA MAX @ 20 V AC OR	
R SILVER 2,3	MATTE-TIN ⁴		DC MAX. OR 1 AMP @ 120 V AC OR 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 N.O. AND N.C. CONTACTS: Coin silver, with gold plate over nickel plate.
- $^{\rm 3}$ 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.

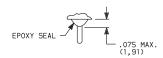
E121, E221 models **c S** with all options when ordered with mandatory G, or R contact material.

 $\mbox{\ensuremath{P}}$ or $\mbox{\ensuremath{B}}$ contact material must be ordered with EX25 models.

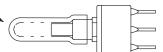
R or G contact material must be ordered with EX21 models.

SEAL ----

E EPOXY SEAL AND DISPOSABLE SPLASHPROOF BOOT

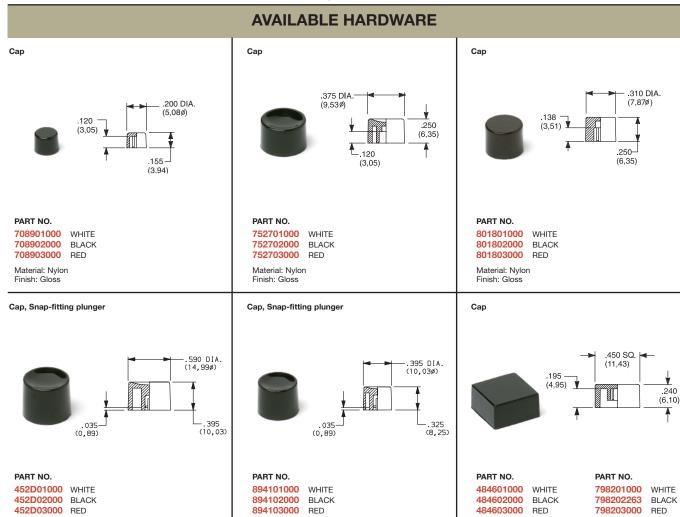


Disposable splashproof boot supplied standard.
Remove and discard boot only after soldering and cleaning processes are complete.









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.

Material: Nylon Finish: Gloss

TYPICAL APPLICATION

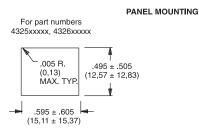
Finish: Matte



.090" (2,29) PANEL THK.125" (3,18) PANEL THK.

PART NO. PART NO.

432702263 432802263 BLACK



For part numbers
4327xxxxx, 4328xxxxx

-005 R.
(0,13)
MAX. TYP.

-620 ± .625
(15,75 ± 15,88)

Third Angle Projection

Finish: Gloss

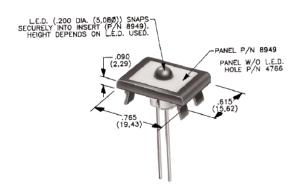


Material: Nylon Finish: Gloss

AVAILABLE HARDWARE

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.





Mouser Electronics

Authorized Distributor

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C&K Switches:

E121SD1V4GE