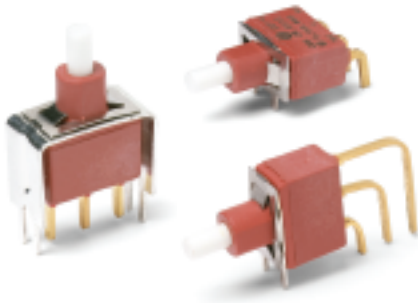




C&K E010 Series Sealed Momentary Pushbutton Switches

Pushbutton
A



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 mΩ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10⁹Ω 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.

<p>Switch Function _____</p> <p>E112 SPDT On-Mom.</p> <p>Plunger _____</p> <p>S .222" high</p> <p>L .338" high</p> <p>M .331" high, snap-fitting</p> <p>Bushing _____</p> <p>D1 Unthreaded</p> <p>Y Threaded, keyway</p>	<p>Terminations _____</p> <p>A Right angle, PC thru-hole</p> <p>AV2 Vertical right angle, PC thru-hole</p> <p>C PC Thru-hole</p> <p>A3 Right angle, snap-in, PC thru-hole</p> <p>AV3 Vertical right angle, snap-in, PC thru-hole</p> <p>R2 Right angle with PCB</p> <p>V3 .460" high, V-bracket</p> <p>V4 .630" high, V-bracket</p> <p>V6 .460" high, V-bracket</p> <p>V8 .953" high, V-bracket</p> <p>V31 .460" high, snap-in V-bracket</p> <p>V81 .953" high, snap-in V-bracket</p> <p>V91 1.150" high, snap-in V-bracket</p> <p>W .750" long, wire wrap</p> <p>Z Solder lug</p>	<p>Contact Material _____</p> <p>B Gold</p> <p>K Gold, tin-lead</p> <p>P Gold, matte-tin</p> <p>Q Silver</p> <p>G Gold over silver</p> <p>Seal _____</p> <p>E Epoxy</p>
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Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

C&K E010 Series Sealed Momentary Pushbutton Switches

SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS. 1	POS. 2	POS. 1	POS. 2	
SP	E112	ON	MOM.	2-1	2-3	
<p>SPDT</p> <p>Part number shown: E112SD1CQE</p>						

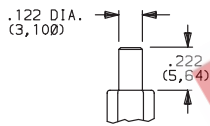
MOM. = Momentary

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

PLUNGER

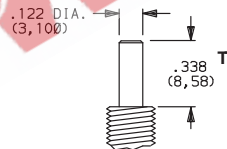


S .218" HIGH



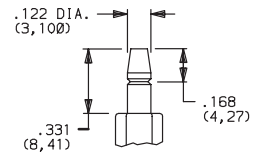
Standard with D1 bushing (as shown).
† Subtract .100 (2,54) from plunger length when ordered with Y bushing.

L .338" HIGH



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

M .331" HIGH, SNAP-FITTING

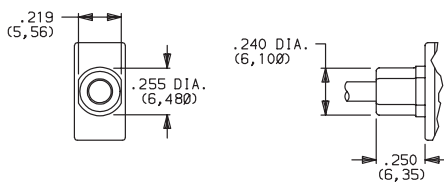


NOTE: Caps available for all plunger options, see pages A-48 and A-49.

BUSHING

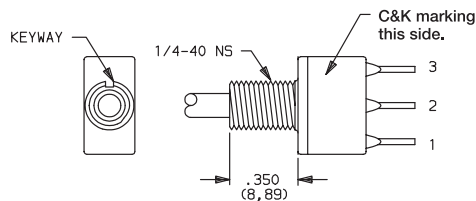


D1 UNTHREADED



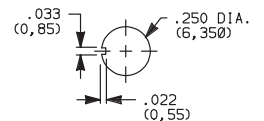
S plunger standard with D1 bushing.

Y THREADED, KEYWAY

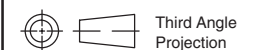


L plunger standard with Y bushing. Available only with C, Z terminations.
Hardware: One dress nut part number 780701201, one hex nut and lockwasher supplied standard.
Withstands 4 in./lbs. without distortion.

PANEL MOUNTING



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



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

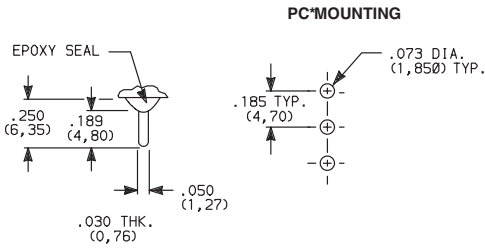


C&K E010 Series Sealed Momentary Pushbutton Switches

Pushbutton

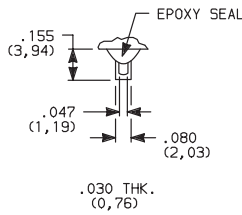
TERMINATIONS

C PC THRU-HOLE



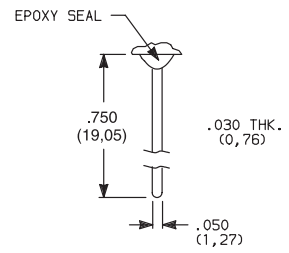
SPDT

Z SOLDER LUG



SPDT Not available with K contact materials.

W WIRE WRAP

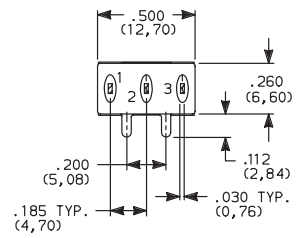
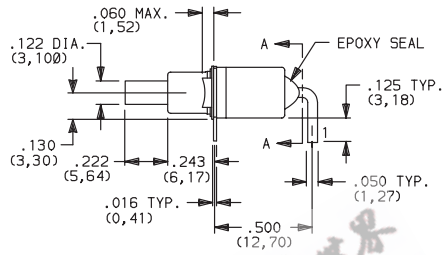
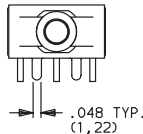


SPDT

A RIGHT ANGLE, PC THRU-HOLE

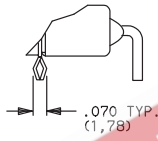
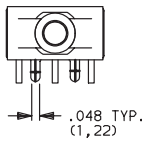


E112SD1ABE SPDT

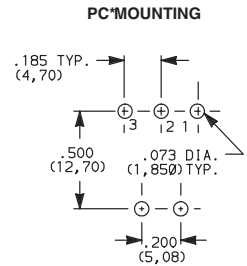
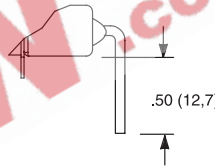


SECTION A-A

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



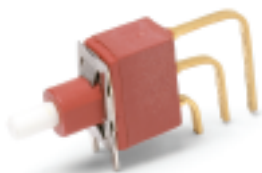
AW RIGHT ANGLE, EXTENDED, PC THRU-HOLE



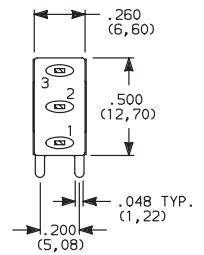
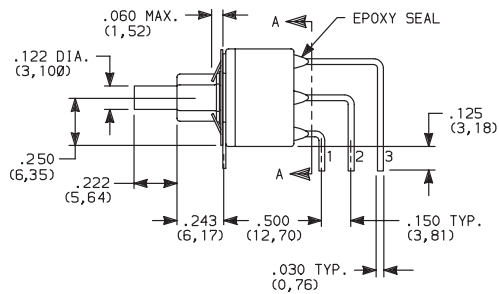
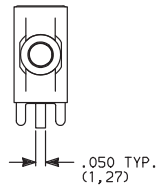
PC MOUNTING

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

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

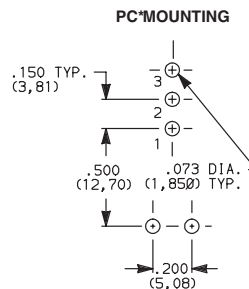
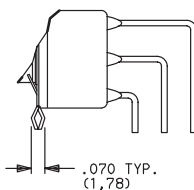
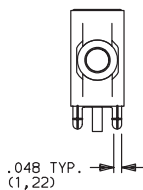


E112SD1AV2BE SPDT



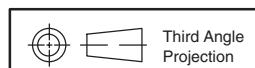
SECTION A-A

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



PC MOUNTING

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



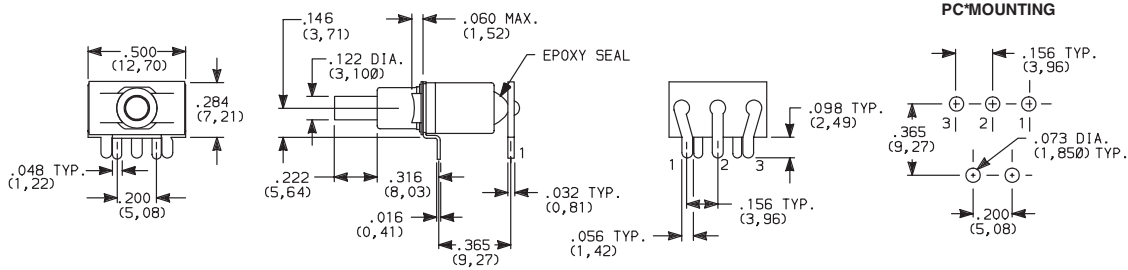
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



C&K E010 Series Sealed Momentary Pushbutton Switches

TERMINATIONS

R2 RIGHT ANGLE WITH PCB

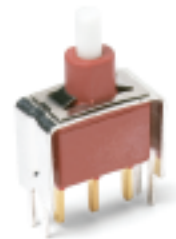
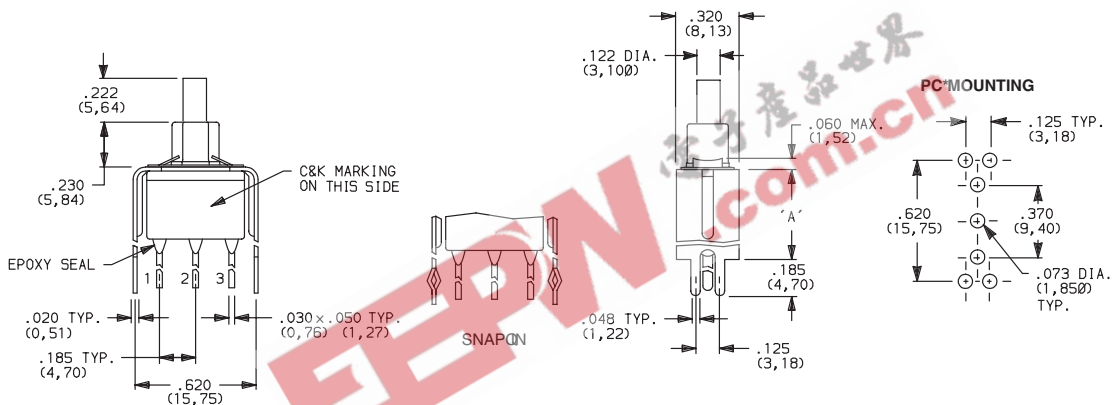


E112SD1R2BE
SPDT

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

V3, V4 VERTICAL MOUNT, V-BRACKET

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



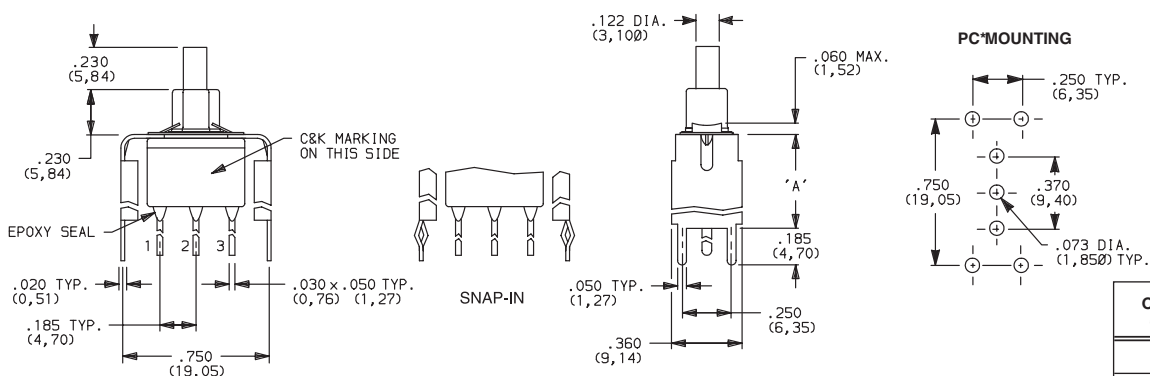
E112SD1_BE
SPDT

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

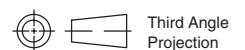
V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



E112SD1_BE
SPDT

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

NOTE: Available with D1 bushing only.



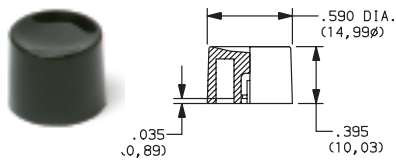
Third Angle Projection

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

C&K E010 Series Sealed Momentary Pushbutton Switches

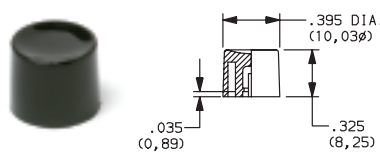
AVAILABLE HARDWARE

Cap, Snap-fitting plunger



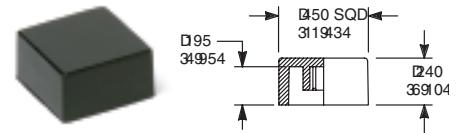
PART NO.
894001000 WHITE
894002000 BLACK
894003000 RED
 Material: Nylon
 Finish: Gloss

Cap, Snap-fitting plunger



PART NO.
894101000 WHITE
894102000 BLACK
894103000 RED
 Material: Nylon
 Finish: Gloss

Cap



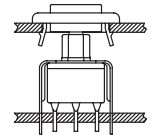
PART NO.
484601000 WHITE
484602000 BLACK
484603000 RED
 Material: Nylon
 Finish: Gloss

PART NO.
798201000 WHITE
798202263 BLACK
798203000 RED
 Material: Nylon
 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.

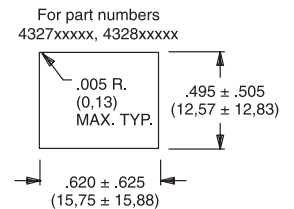
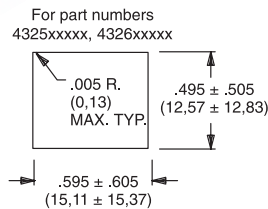
Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon.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

TYPICAL APPLICATION



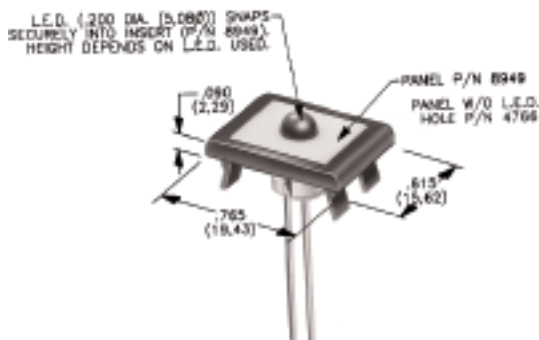
.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO. 432501000 432502263 432503000	PART NO. 432601000 432602263 432603000	PART NO. 432701000 432702263 432703000	PART NO. 432801000 WHITE 432802263 BLACK 432803000 RED

PANEL MOUNTING



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

PART NO.
894901000
894902000
894903000

BLANK PANEL INSERT WITHOUT HOLE FOR LED

PART NO.
476601000 WHITE
476602000 BLACK
476603000 RED

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



Third Angle Projection

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

