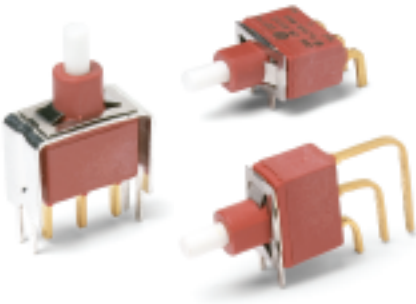


C&K E010 Series

Sealed Momentary Pushbutton Switches

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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.

Switch Function

E112 SPDT On-Mom.

Plunger

S .222" high

L .338" high

M .331" high, snap-fitting

Bushing

D1 Unthreaded

Y Threaded, keyway

Terminations

A Right angle, PC thru-hole

AV2 Vertical right angle, PC thru-hole

C PC Thru-hole

A3 Right angle, snap-in, PC thru-hole

AV3 Vertical right angle, snap-in, PC thru-hole

R2 Right angle with PCB

V3 .460" high, V-bracket

V4 .630" high, V-bracket

V6 .460" high, V-bracket

V8 .953" high, V-bracket

V31 .460" high, snap-in V-bracket

V81 .953" high, snap-in V-bracket

V91 1.150" high, snap-in V-bracket

W .750" long, wire wrap

Z Solder lug

Contact Material

B Gold

K Gold, tin-lead

P Gold, matte-tin

Q Silver

G Gold over silver

Seal

E Epoxy



A

Pushbutton

SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS. 1	POS. 2	POS. 1	POS. 2	
		C&K marking this side		C&K marking this side		
SP	E112	ON	MOM.	2-1	2-3	
SPDT 						

MOM. = Momentary

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

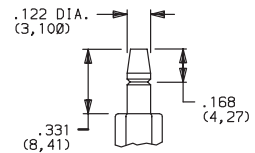
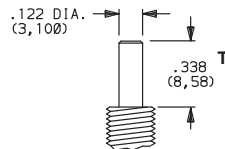
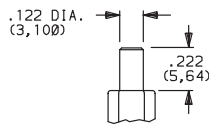
PLUNGER



S .218" HIGH

L .338" HIGH

M .331" HIGH, SNAP-FITTING



Standard with D1 bushing (as shown).

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

Standard with Y bushing (as shown).

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

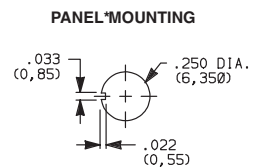
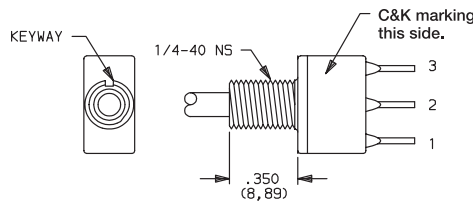
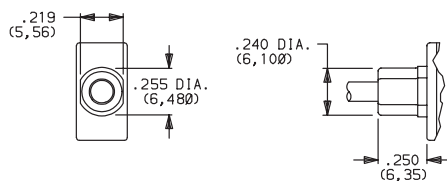
NOTE: Caps available for all plunger options, see pages A-48 and A-49.

BUSHING



D1 UNTHREADED

Y THREADED, KEYWAY



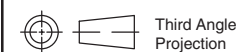
S plunger standard with D1 bushing.

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.



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





A

Pushbutton

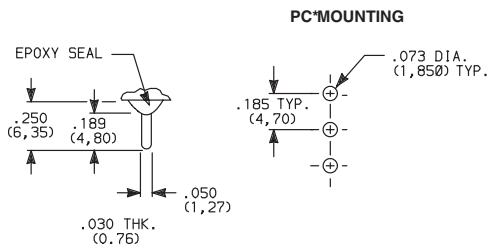
C&K E010 Series Sealed Momentary Pushbutton Switches

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TERMINATIONS

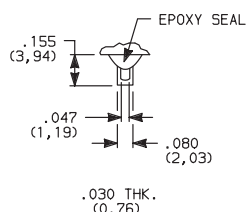


C PC THRU-HOLE



SPDT

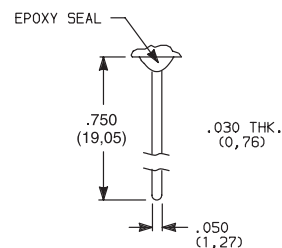
Z SOLDER LUG



SPDT

Not available with K contact materials.

W WIRE WRAP

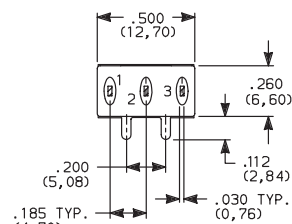
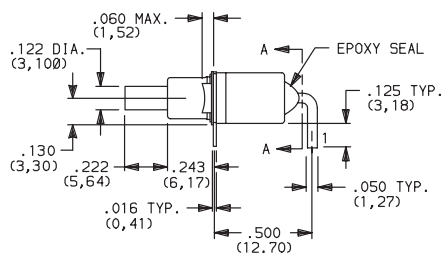
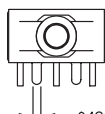


SPDT

A RIGHT ANGLE, PC THRU-HOLE

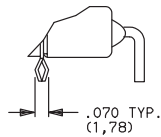
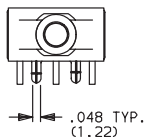


E112SD1ABE
SPDT

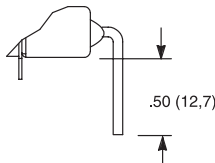


SECTION A-A

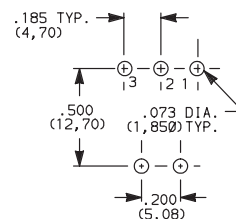
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



AW RIGHT ANGLE, EXTENDED, PC THRU-HOLE

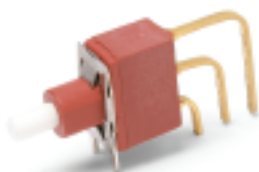


PC MOUNTING

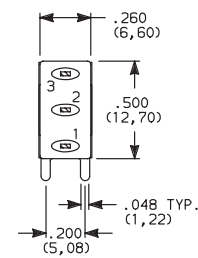
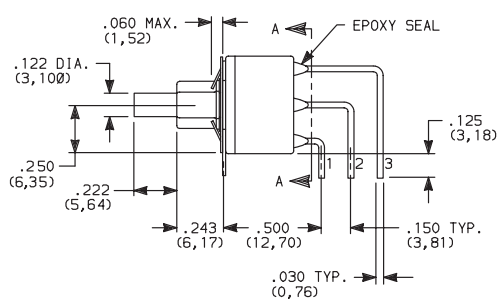
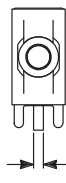


NOTE: Terminal bend radii and lead-in manufacturing option.
Available with D1 bushing only.

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

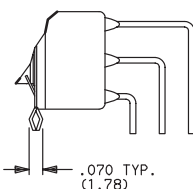
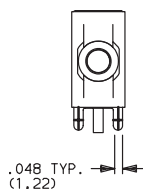


E112SD1AV2BE
SPDT

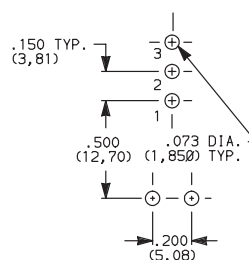


SECTION A-A

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.



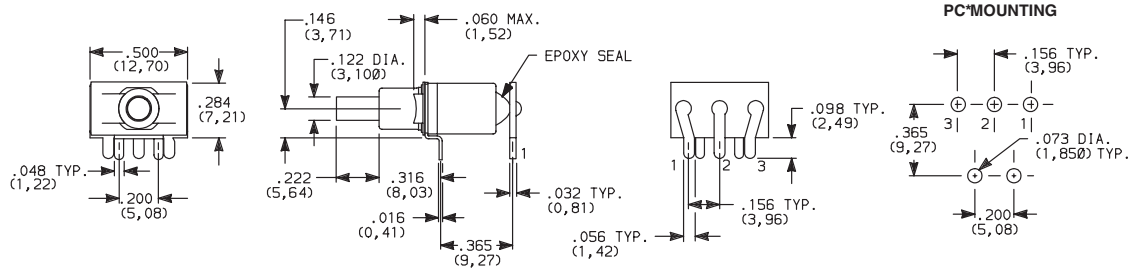
Third Angle
Projection



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

TERMINATIONS

R2 RIGHT ANGLE WITH PCB

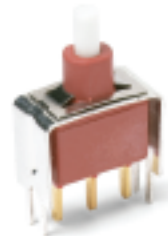
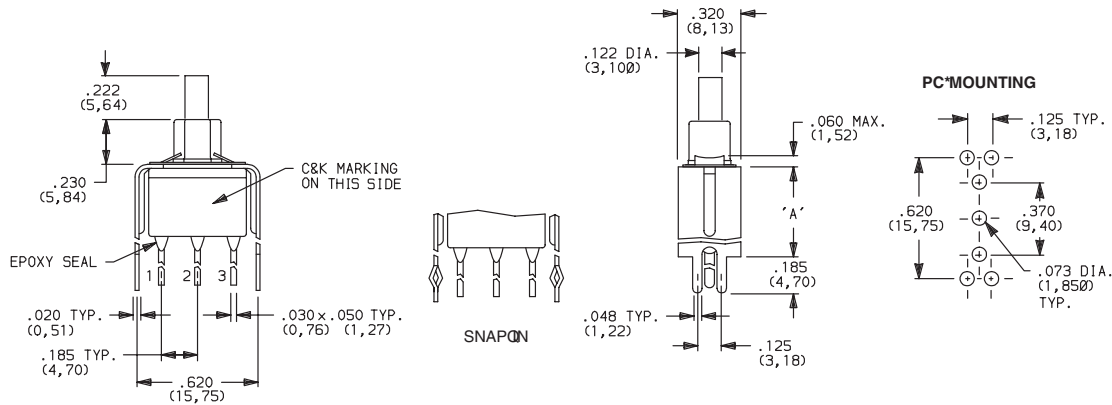


E112SD1R2BE
SPDT

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

V3, V4 VERTICAL MOUNT, V-BRACKET

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



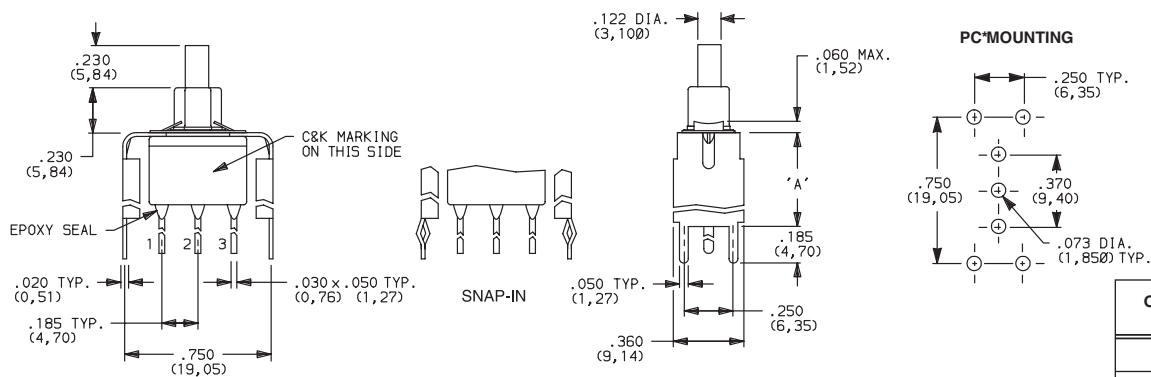
E112SD1_BE
SPDT

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.



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



C&K E010 Series

Sealed Momentary Pushbutton Switches

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A

CONTACT MATERIAL



OPTION CODE	RoHS COMPLIANT *	RoHS COMPATIBLE *	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
B	YES	YES	GOLD 1	GOLD 1	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
K	NO	YES		TIN-LEAD 6		
P	YES	YES		MATTE-TIN 7		
Q	YES	YES	SILVER 4,5	SILVER 5	POWER	4 AMPS @ 125 V AC OR 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 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 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.

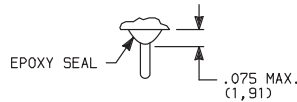
Q contact material standard with C, Z terminations.

K, P contact materials not available with Z terminations.

SEAL

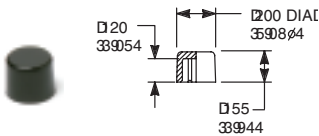


E EPOXY SEAL



AVAILABLE HARDWARE

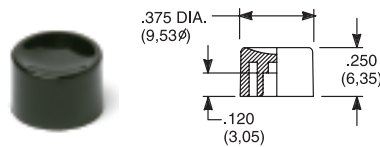
Cap



PART NO.
708901000 WHITE
708902000 BLACK
708903000 RED

Material: Nylon
Finish: Gloss

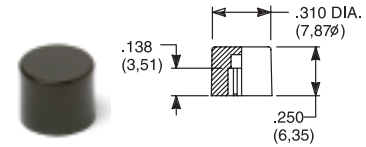
Cap



PART NO.
752701000 WHITE
752702000 BLACK
752703000 RED

Material: Nylon
Finish: Gloss

Cap



PART NO.
801801000 WHITE
801802000 BLACK
801803000 RED

Material: Nylon
Finish: Gloss

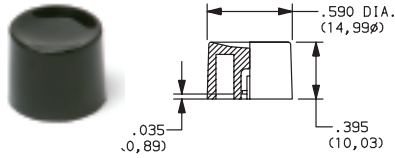
NOTE: Additional nuts, locking rings and lockwashers available separately, see section "Technical Data and Additional Hardware". Other cap colors available, consult Customer Service Center.



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

AVAILABLE HARDWARE

Cap, Snap-fitting plunger

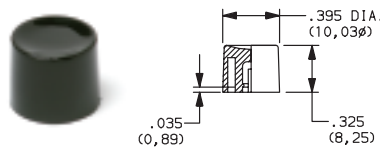


PART NO.

894001000 WHITE
894002000 BLACK
894003000 RED

Material: Nylon
Finish: Gloss

Cap, Snap-fitting plunger

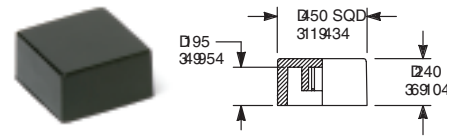


PART NO.

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.

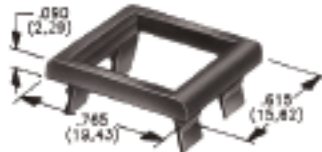
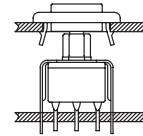
798201000 WHITE
798202263 BLACK
798203000 RED

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.

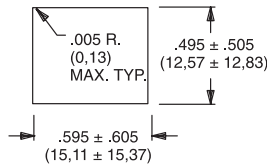
432701000
432702263
432703000

PART NO.

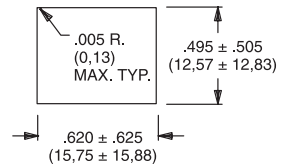
432801000 WHITE
432802263 BLACK
432803000 RED

PANEL MOUNTING

For part numbers
4325xxxxx, 4326xxxxx

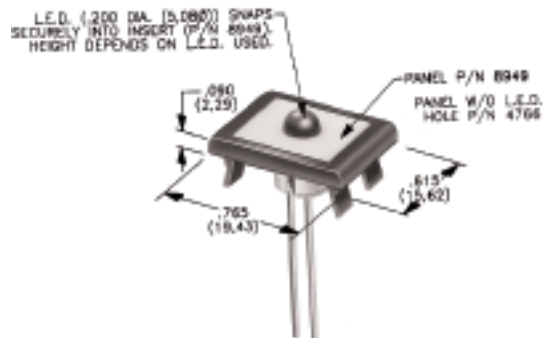


For part numbers
4327xxxxx, 4328xxxxx



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.



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