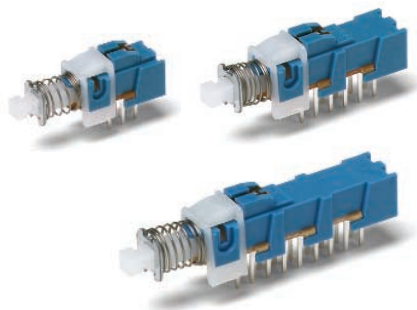


C&K PHA Series Short Stroke Pushbutton Switches

A

Pushbutton



Features/Benefits

- **Momentary or latching action**
- **Low cost, reliable contact design**
- **2, 4 & 6 pole configurations**
- **Sealed contacts**
- **Optional buttons**

Typical Applications

- **Computers and peripherals**
- **Instrumentation and measurement equipment**
- **Non-power, on-off switch applications**

Specifications

SWITCHING POWER MAX.: 3 W DC
 SWITCHING VOLTAGE MAX.: 30 V DC
 SWITCHING CURRENT MAX.: 100 mA DC
 DIELECTRIC STRENGTH (50 Hz/1 min.): 500 V between open contacts. 1500 V between chassis and contacts.
 OPERATING LIFE: Impulse/momentary (OA): $\wedge 10^4$ operations.
 Latching (EE): $\wedge 10^4$ operations
 CONTACT RESISTANCE: New: $\% 20 \text{ m}\Omega$
 After 105 operations: $\% 40 \text{ m}\Omega$
 INSULATION RESISTANCE: $\wedge 10^{10} \Omega$
 CAPACITANCE: $\% 1.5 \text{ pF}$
 CONTACT BOUNCE: $\% 2 \text{ ms}$
 Operating speed 200 mm/s (7.87 inch/s)
 TOTAL TRAVEL/LATCHING TRAVEL: 2.5mm/1.5mm
 (.0984 inch/.0591 inch)
 OPERATING FORCE:
 2U: 170cN $\pm$ 50cN (170 grams $\pm$ 50 grams)
 4U: 230cN $\pm$ 70cN (230 grams $\pm$ 70 grams)
 6U: 300cN $\pm$ 100cN (300 grams $\pm$ 100 grams)
 SEALING: Sealed contacts.

Materials

FIXED TERMINAL: Brass, silver plated.
 MOVABLE CONTACT: Phosphor bronze, silver plated.
 SWITCH BODY: PPE
 ACTUATOR: POM
 STANDOFF CLIP: POM
 RETURN SPRING: Music wire.
 RETURN SPRING RETAINER: Carbon steel, tin plated.
 DETENT SPRING PLATE: Phosphor bronze.
 DETENT SPRING: Stainless steel.
 BASE: Laminated phenolic.
 TERMINAL SEAL: Epoxy.

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

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-79 thru A-81. For additional options not shown in catalog, consult Customer Service Center.

Switch		Button	
P H A			
Contact Arrangement	Mechanical Function	Indexed	Round
2U 2 Changeovers	OA Momentary	G001A Black	G003A Black
4U 4 Changeovers	EE Push-push	G001G Gray	G003G Gray
6U 6 Changeovers		G001I Ivory	G003I Ivory
		G001R Red	G003R Red
		Rectangular	Square
		G002A Black	G004A Black
		G002G Gray	G004G Gray
		G002I Ivory	G004I Ivory
		G002R Red	G004R Red

BUTTON REMOVAL

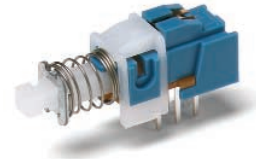
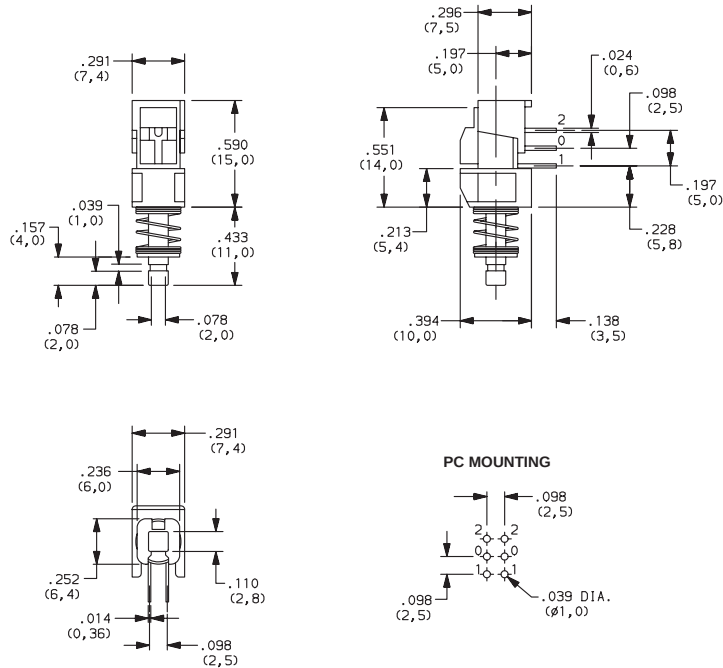
A button of a push-push switch should only be removed in the "OFF" non-latching position.

C&K PHA Series Short Stroke Pushbutton Switches

DESIGNATION



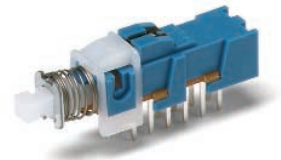
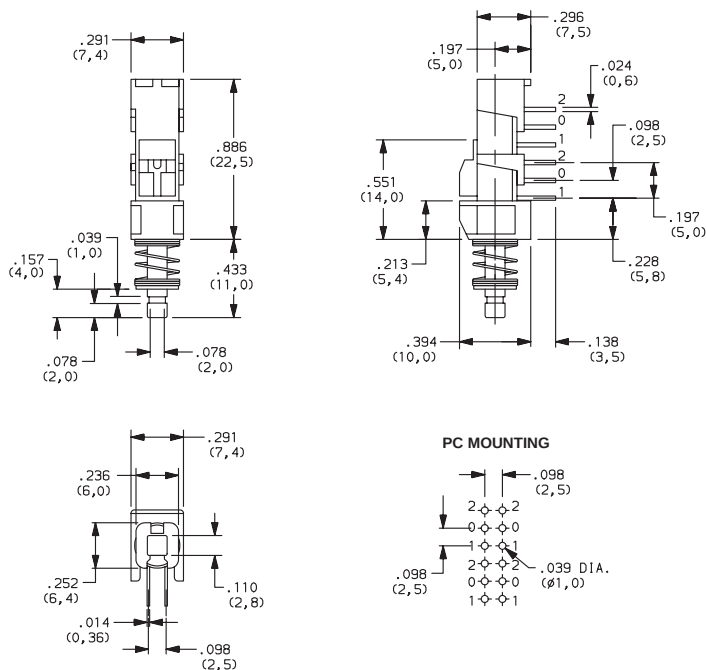
2U 2 CHANGEOVERS



A

Pushbutton

4U 4 CHANGEOVERS



Third Angle
Projection

Dimensions are shown: IN (mm)
Dimensions subject to change

C&K PHA Series Short Stroke Pushbutton Switches



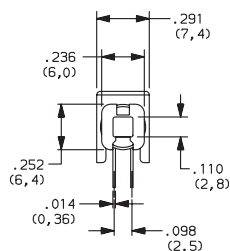
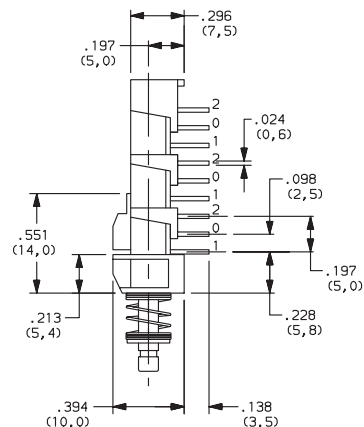
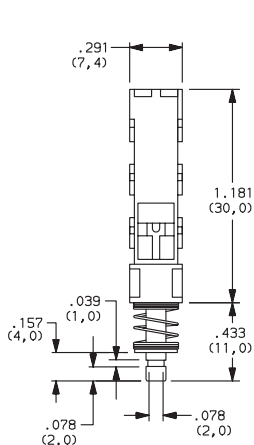
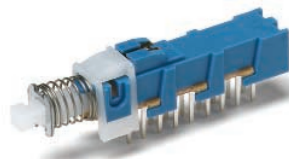
A

Pushbutton

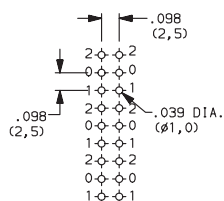
DESIGNATION



6U 6 CHANGEOVERS



PC MOUNTING



CONTACT ARRANGEMENT



OPTION CODE	NO. OF POLES *	SCHEMATIC
2U	2PDT	
4U	4PDT	2X
6U	6PDT	3X

*Non-shorting contacts.

MECHANICAL FUNCTION



OPTION CODE	FUNCTION
OA	Momentary
EE	Push-push

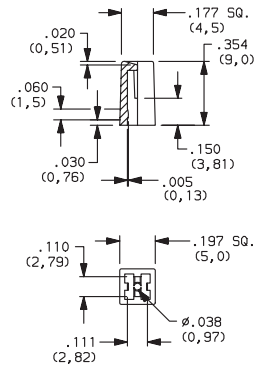
C&K PHA Series Short Stroke Pushbutton Switches

BUTTONS



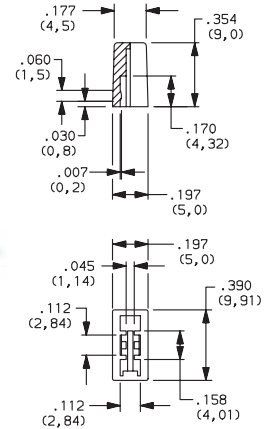
Indexed

- G001A** Black
- G001G** Gray
- G001I** Ivory
- G001R** Red



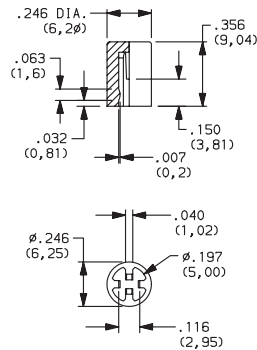
Rectangular

- G002A** Black
- G002G** Gray
- G002I** Ivory
- G002R** Red



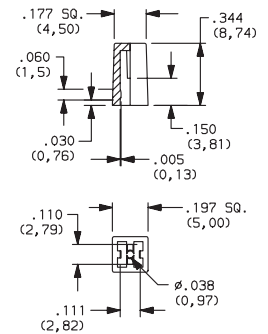
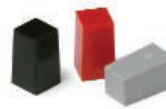
Round

- G003A** Black
- G003G** Gray
- G003I** Ivory
- G003R** Red



Square

- G004A** Black
- G004G** Gray
- G004I** Ivory
- G004R** Red



A

Pushbutton