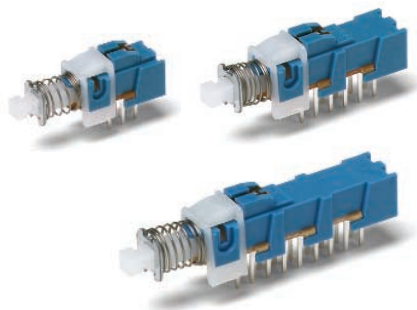


C&K PHA Series Short Stroke Pushbutton Switches

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 2U 2 Changeovers 4U 4 Changeovers 6U 6 Changeovers	Mechanical Function OA Momentary EE Push-push	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

BUTTON REMOVAL

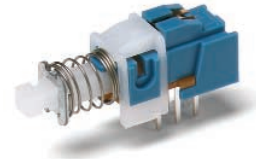
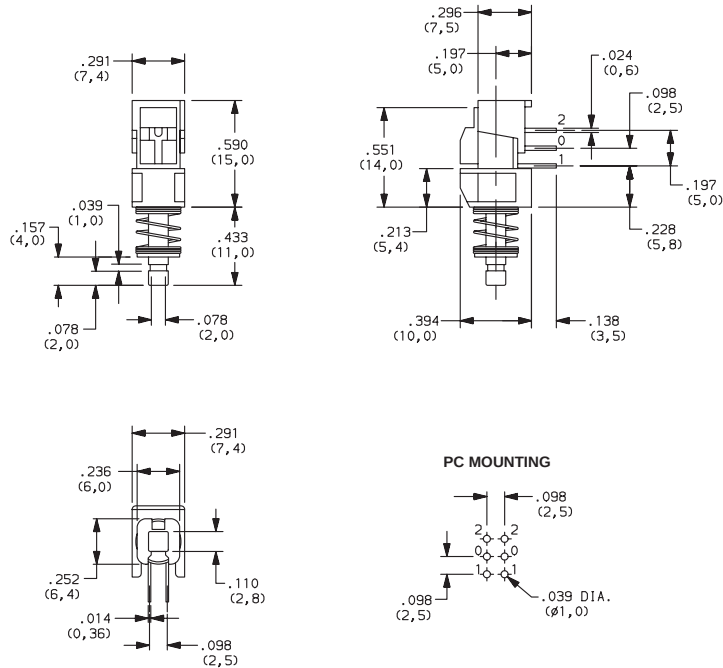
A button of a push-push switch should only be removed in the "OFF" non-latching position.

C&K PHA Series Short Stroke Pushbutton Switches

DESIGNATION



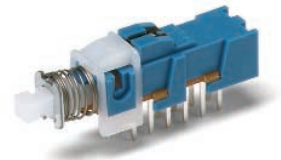
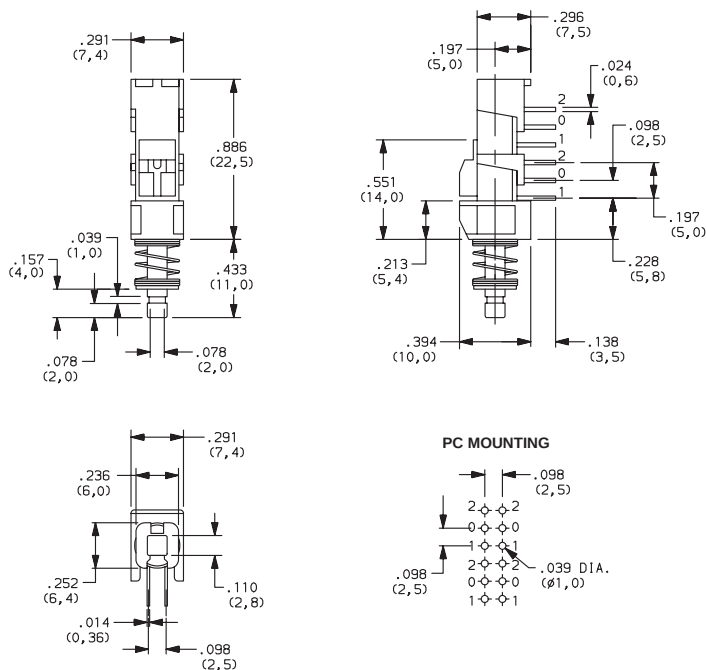
2U 2 CHANGEOVERS



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



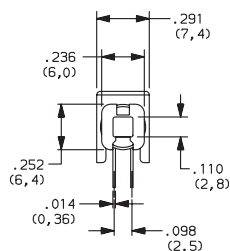
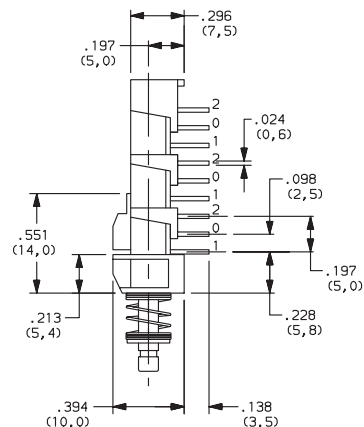
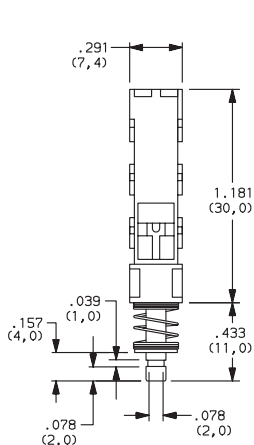
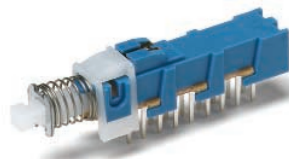
A

Pushbutton

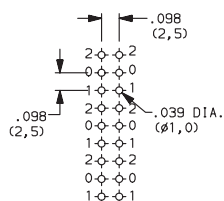
DESIGNATION



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
0A	Momentary
EE	Push-push

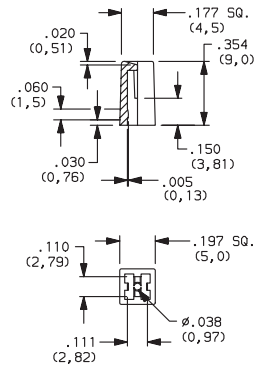
C&K PHA Series Short Stroke Pushbutton Switches

BUTTONS



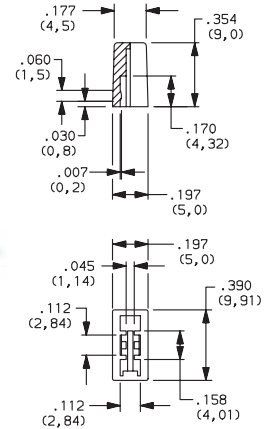
Indexed

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



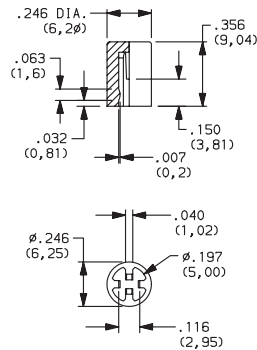
Rectangular

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



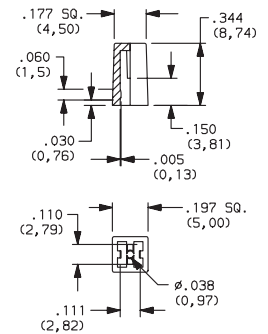
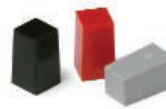
Round

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



Square

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



A

Pushbutton