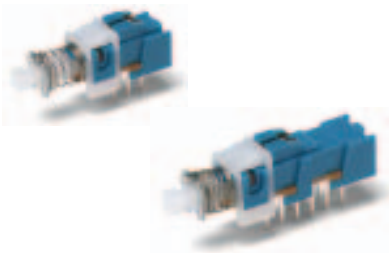
PHA Series
Short Stroke Pushbutton Switches



Features/Benefits

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

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: 10,000 cycles at rated load

CONTACT RESISTANCE: 20 m ohms initialΩ

INSULATION RESISTANCE: 100 M ohmsΩ

TOTAL TRAVEL/LATCHING TRAVEL: 2.5mm/1.5mm (.098 inch/.059 inch)

OPERATING FORCE:
170 grams ± 50 grams (1.67 ± 0.98N)
230 grams ±50 grams (2.26 ± 0.98N)

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-85 thru A-87. For additional options not shown in catalog, consult Customer Service Center.

Switch P H A — **Button**

Contact Arrangement
- 2U 2 Changeovers
- 4U 4 Changeovers

Mechanical Function
- OA Momentary
- EE Push-push

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

Round
- G003A Black
- G003G Gray
- G0031 Ivory
- G003R Red

Rectangular
- G002A Black
- G002G Gray
- G0021 Ivory
- G002R Red

Square
- G004A Black
- G004G Gray
- G0041 Ivory
- G004R Red

BUTTON REMOVAL

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

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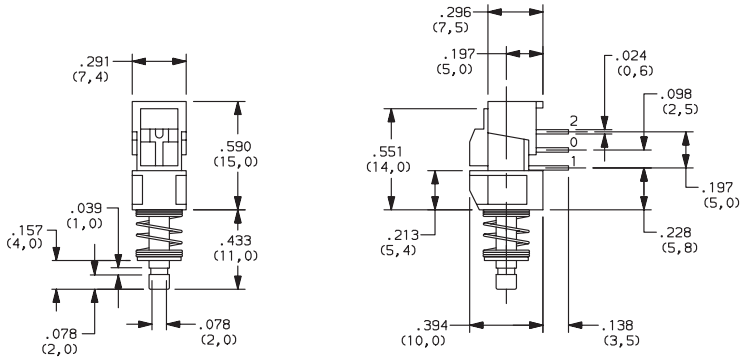
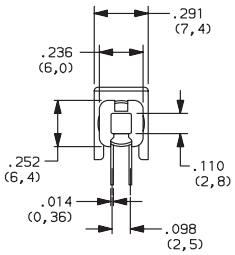
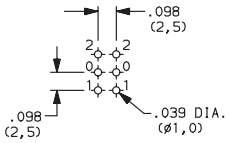
DESIGNATION

2U 2 CHANGEOVERS

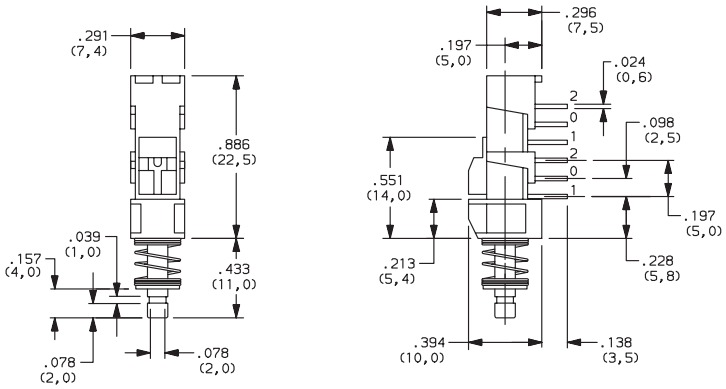


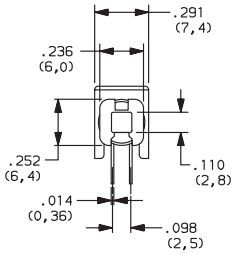


PC MOUNTING

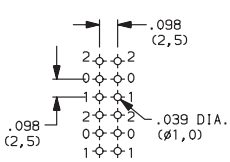


4U 4 CHANGEOVERS





PC MOUNTING



Third Angle Projection

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

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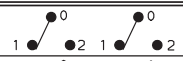
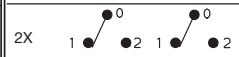
PHA Series
Short Stroke Pushbutton Switches

CONTACT ARRANGEMENT

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

*Non-shorting contacts.

MECHANICAL FUNCTION

OPTION CODE	FUNCTION
OA	Momentary
EE	Push-push

Third Angle Projection

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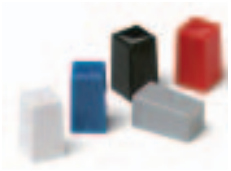
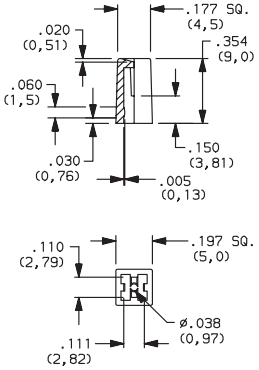
BUTTONS

Indexed

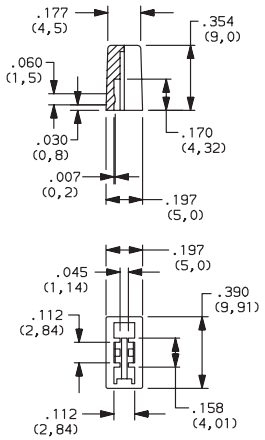
G001A Black
G001G Gray
G001I Ivory
G001R Red





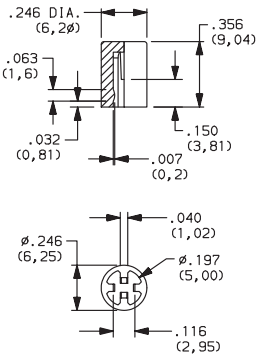
Rectangular

G002A Black
G002G Gray
G002I Ivory
G002R Red



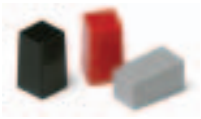
Round

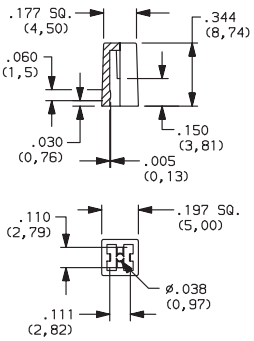
G003A Black
G003G Gray
G003I Ivory
G003R Red



Square

G004A Black
G004G Gray
G004I Ivory
G004R Red





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