

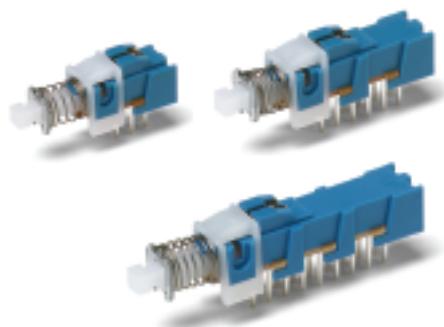


PHA Series

Short Stroke Pushbutton Switches

Pushbutton

A



Features/Benefits

- Momentary or latching action
- Low cost, reliable contact design
- 2, 4 & 6 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: Impulse/momentary (OA): $\wedge 10^4$ operations.
 Latching (EE): $\wedge 10^4$ operations
 CONTACT RESISTANCE: New: %20 mΩ
 After 105 operations: %40 mΩ
 INSULATION RESISTANCE: $\wedge 10^{10}\Omega$
 CAPACITANCE: %1.5 pF
 CONTACT BOUNCE: %2 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

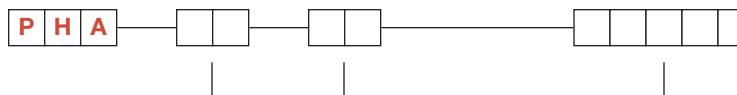
FIXED TERMINAL: Brass, silver plated.
 MOVABLE CONTACT: Phosphor bronze, silver plated.
 SWITCH BODY: PPE
 ACTUATOR: POM
 STANOFF CLIP: POM
 RETURN SPRING: Music wire.
 RETURN SPRING RETAINER: Carbon steel, tin plated.
 DETENT SPRING PLATE: Phosphor bronze.
 DETENT SPRING: Stainless steel.
 BASE: Laminated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



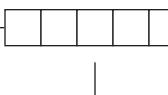
Contact Arrangement

2U	2 Changeovers
4U	4 Changeovers
6U	6 Changeovers

Mechanical Function

OA	Momentary
EE	Push-push

Button



Indexed	Round
G001A Black	G003A Black
G001G Gray	G003G Gray
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

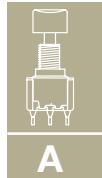
BUTTON REMOVAL

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



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

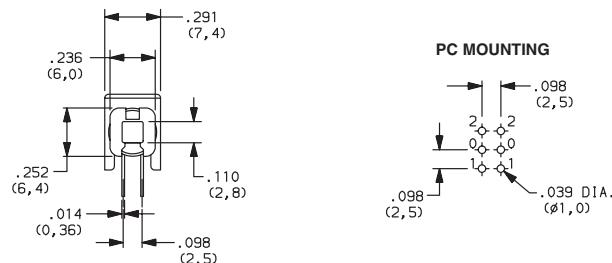
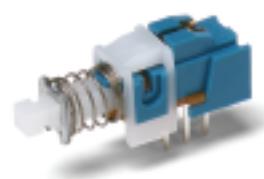
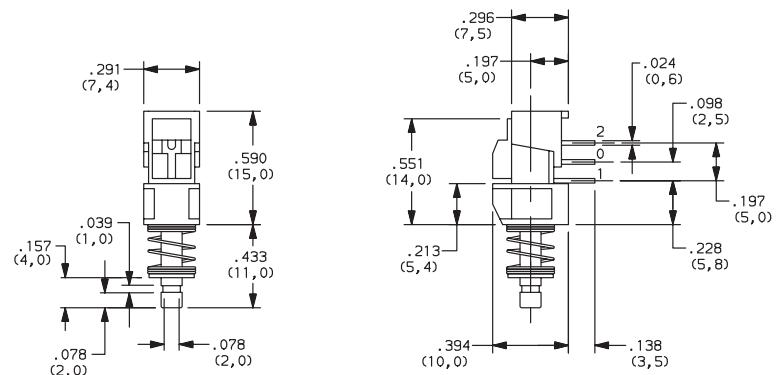
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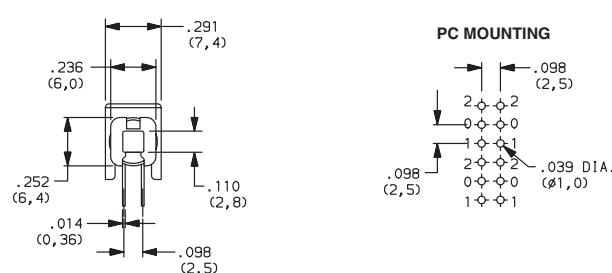
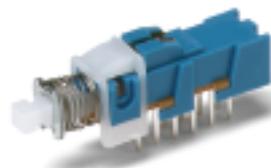
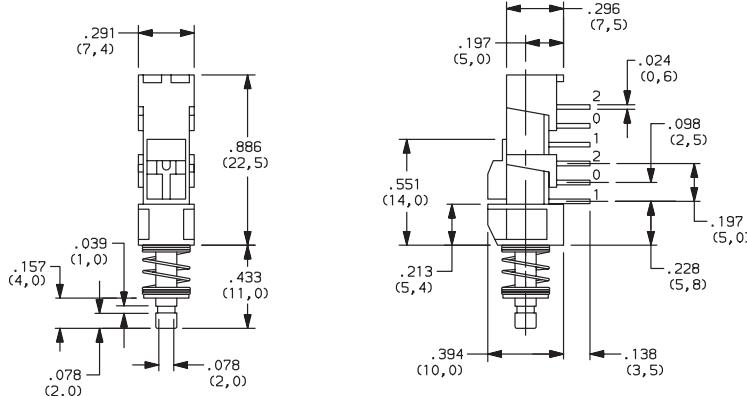
DESIGNATION



2U 2 CHANGEOVERS



4U 4 CHANGEOVERS





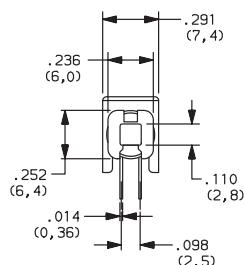
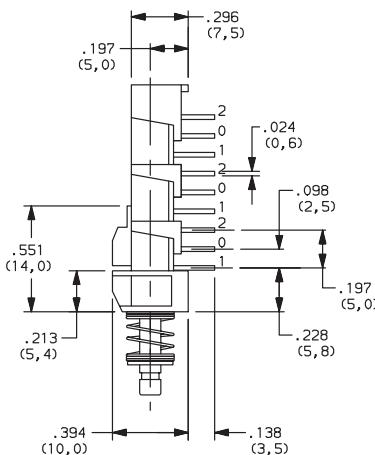
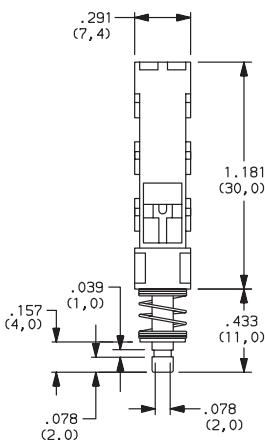
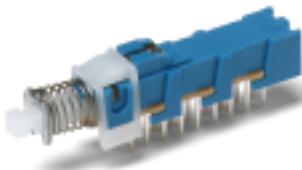
Pushbutton

PHA Series

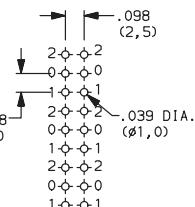
Short Stroke Pushbutton Switches

DESIGNATION

6U 6 CHANGEOVERS



PC MOUNTING



CONTACT ARRANGEMENT

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

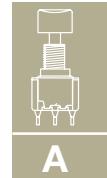
*Non-shorting contacts.

MECHANICAL FUNCTION

OPTION CODE	FUNCTION
OA	Momentary
EE	Push-push

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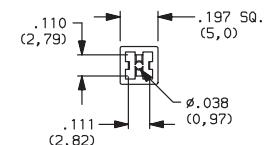
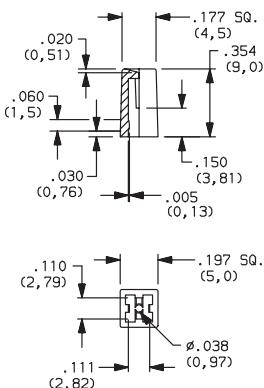
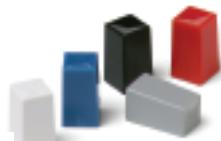
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BUTTONS

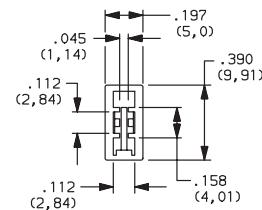
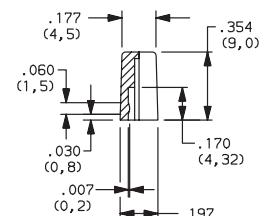
Indexed

G001A Black
G001G Gray
G001I Ivory
G001R Red



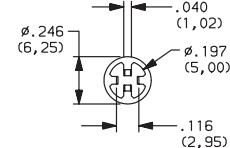
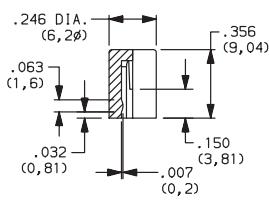
Rectangular

G002A Black
G002G Gray
G002I Ivory
G002R Red



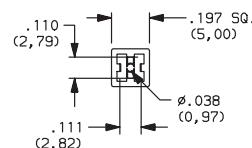
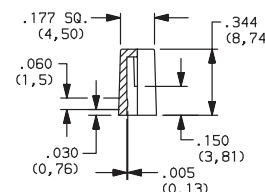
Round

G003A Black
G003G Gray
G003I Ivory
G003R Red



Square

G004A Black
G004G Gray
G004I Ivory
G004R Red



Dimensions are shown: Inches (mm)
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