# Short Stroke Key Switches

## Features/Benefits
- Compact design
- Short stroke to latch
- Wide variety of actuator heights
- Adapted for medium power applications
- RoHS compliant and compatible

## Typical Applications
- Automotive (air conditioning, lighting)
- Industrial
- Control panel

## Construction
**FUNCTION:** Momentary, Push-Push
**CONTACT ARRANGEMENT:**
- PVA1: 2 make contacts (DPST)
- PVA2: 2 changeover contacts (DPDT)
**SWITCHING MODE:** Non-shorting
**TERMINALS:** PC pins

## Mechanical
**TOTAL TRAVEL / LATCHING TRAVEL:**
- OA: 2.4 mm
- EE: 2.4 / 1.5 mm
**ELECTRICAL TRAVEL:** 0.8 mm (1.1 for PVA2 OA H5)
**OPERATING FORCE:** 1.2N; 1.7N; 3.5N

## Process
**SOLDERABILITY:**
- Wave soldering, compatible with lead free soldering profile
- Hand soldering, 350°C for 3 seconds

**Note:** Specifications listed above are for switches with standard options. For information on specific and custom switches, please contact technical support using the “Ask a Specialist” option on the PVA product web page.

## Electrical
**SWITCHING POWER MAX.:** 3 W DC
**SWITCHING VOLTAGE MAX.:** 32 V DC
**SWITCHING CURRENT MAX.:** 100 mA DC
**DIELECTRIC STRENGTH (50 Hz / 1 min):**
- 1000 V between open contacts, PVA2: 750 V
**OPERATING LIFE:**
- OA (momentary): ≥ 1 x 10⁵ operations
- EE (push-push): ≥ 1 x 10⁵ operations
**CONTACT RESISTANCE:** Initial ≤ 100 mΩ
**INSULATION RESISTANCE:** ≥ 10¹² Ω
**BOUNCE TIME:** ≤ 3 ms

## Environmental
**OPERATING TEMPERATURE:** -40°C to 85°C.

1) “Snap-in” contacts on request, Version SNA with pins bent inside (standard)
2) With button ≥70°C

## How To Order
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box. Some of the configurations may not be available or could require some development.

### Switch

#### Series
- PVA1: 2 make-contacts (DPST)
- PVA2: 2 changeover contacts (DPDT)

#### Mechanical Function
- OA: Momentary
- EE: Push-push

#### Total Height
- H1: 17.5 mm
- H2: 23 mm
- H3: 20.5 mm
- H4: 15 mm
- H5: 13 mm (momentary & PVA2 only)

#### Operating Force
- 1.2N PVA1 only
- 1.7N PVA2 only
- 3.5N

#### Termination
- NONE Standard terminals
- SNA Snap-in terminals

## Button
Buttons must be ordered separately.
Shipped in bulk.

**Button Color**
- RD: Red
- GR: Green
- BK: Black
- WH: White

*Compatible with H1 and H3 actuator models only.*
PVA
Short Stroke Key Switches

PVA1 (DPST)

PVA2 (DPDT)

MECHANICAL FUNCTION

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>FUNCTION</th>
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<tbody>
<tr>
<td>OA</td>
<td>Momentary</td>
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<tr>
<td>EE</td>
<td>Push-Push</td>
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</tbody>
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Dimensions are shown: mm
Specifications and dimensions subject to change

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**TOTAL HEIGHT**

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<td>23 MM</td>
<td>H3</td>
</tr>
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(MOMENTARY ONLY)

**OPERATING FORCE**

- 1.2N: PVA1 ONLY
- 1.7N: PVA2 ONLY
- 3.5N: PVA ONLY

**TERMINATION**

- SNA with PVA1
- SNA with PVA2

**BUTTONS**

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www.ckswitches.com