# **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 change over contacts (DPDT)

SWITCHING MODE: Non-shorting

TERMINALS: PC pins1

### 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 10<sup>5</sup> operations EE (push-push): ≥ 1 x 10<sup>5</sup> operations CONTACT RESISTANCE: Initial  $\leq$  100 m $\Omega\Omega$ 

INSULATION RESISTANCE: ≥ 1010 Ω

BOUNCE TIME: ≤ 3 ms

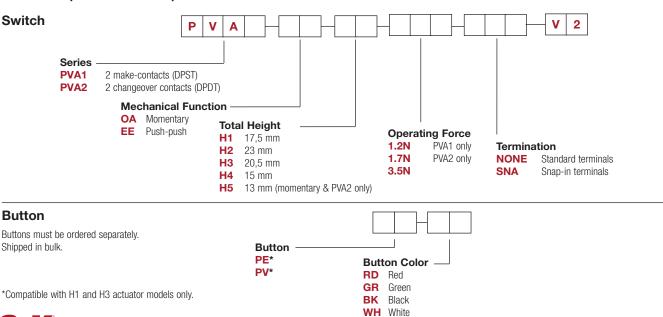
## **Environmental**

OPERATING TEMPERATURE: -40°C to 85°C.2

- 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.





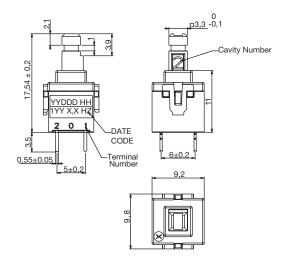
Dimensions are shown: mm (inches) Specifications and dimensions subject to change

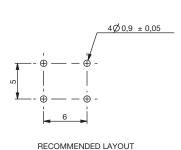
# **PVA Short Stroke Key Switches**

#### **SERIES** \_\_\_\_\_

PVA1 (DPST)

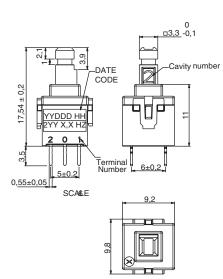


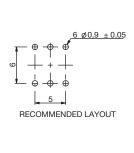




# PVA2 (DPDT)





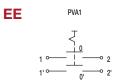


# **MECHANICAL FUNCTION**









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OPTION CODE

OA

EE

**FUNCTION** 

Momentary

Push-Push

# **TOTAL HEIGHT**

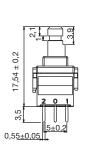
H1 17,5 MM

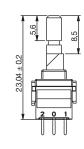
H2 23 MM

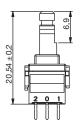
**H3** 20,5 MM

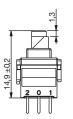
**H4** 15 MM

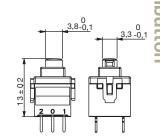
**H5** 13 MM (MOMENTARY ONLY)











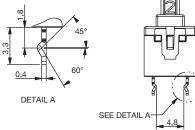
**OPERATING FORCE** 

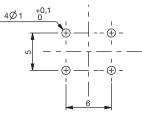
# 1.7N **PVA2 ONLY** 3.5N

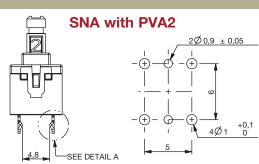
**PVA1 ONLY** 

1.2N

# **TERMINATION SNA** with PVA1 4Ø1







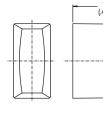
# **BUTTONS**

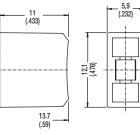


### BUTTONS MUST BE ORDERED SEPARATELY. SHIPPED IN BULK.

PE



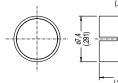


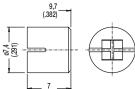


OPTION CODE	COLOR
RD	Red
GY	Gray
ВК	Black
WH	White

PV









# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

# **C&K Switches:**

PVA1EEH13.5NV2 PVA1OAH11.2NV2 PVA1OAH21.2NV2 PVA2EEH11.7NV2 PVA2EEH13.5NV2
PVA2OAH53.5NV2 PVA1 OA H4 1.2N V2 PVA2EEH21.7NSNAV2 PVA1EEH11.2NV2 PVA2EEH12.2NV2
PVA2EEH33.5NV2 PVA2EEH43.5NSNAV2 PVA2EEH31.7NSNAV2 PVA2EEH23.5NV2 PVA1EEH11.2NSNAV2
PVA2EEH21.7NV2 PVA2OAH31.7NV2 PVA2OAH21.7NV2 PVA2OAH51.7NV2 PVA1EEH41.2NV2
PVA2EEH11.7NSNAV2 PVA2EEH13.5NSNAV2 PVA2EEH31.7NV2 PVA2EEH41.7NSNAV2 PVA2EEH41.7NV2
PVA1EEH21.2NSNAV2 PVA1EEH31.2NV2 PVA1EEH41.2NSNAV2 PVA1OAH11.2NSNAV2 PVA1OAH21.2NSNAV2
PVA1OAH31.2NSNAV2 PVA2OAH51.7NSNAV2 PVA2OAH13.5NV2 PVA2OAH33.5NV2 PVA2OAH41.7NSNAV2
PVA2OAH43.5NV2 PVA1OAH41.2NSNAV2 PVA1OAH43.5NV2 PVA2OAH11.7NSNAV2 PVA2OAH12.2NV2
PVA2OAH3.5NSNAV2 PVA1OAH13.5NV2 PVA1OAH33.5NV2 PVA1OAH13.5NSNAV2 PVA1OAH12.2NV2
PVA1EEH33.5NSNAV2 PVA1EEH23.5NV2 PVA1EEH13.5NSNAV2 PVA1EEH43.5NSNAV2 PVA