

PVA Short Stroke Key Switches



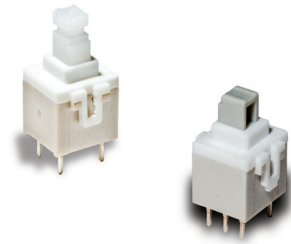
A Pushbutton

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.v

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): $\geq 1 \times 10^5$ operations
 EE (push-push): $\geq 1 \times 10^6$ operations
 CONTACT RESISTANCE: Initial $\leq 100 \text{ m}\Omega$
 INSULATION RESISTANCE: $\geq 10^{10} \Omega$
 BOUNCE TIME: $\leq 3 \text{ ms}$

Environmental

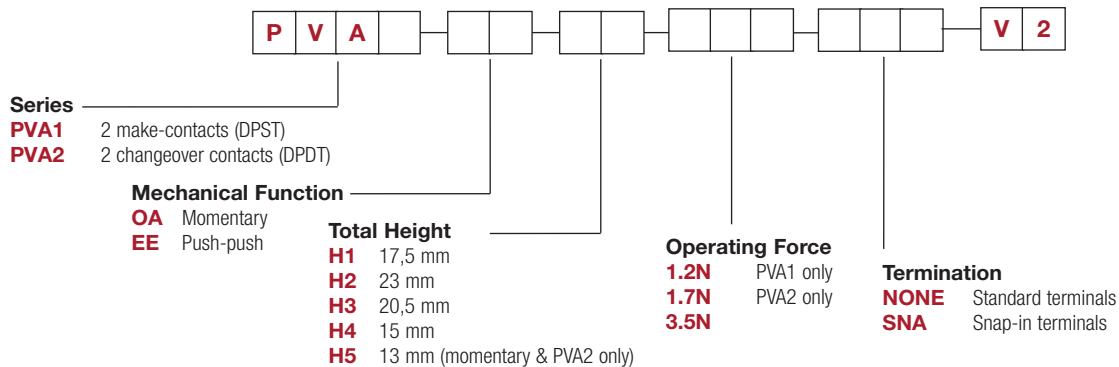
OPERATING TEMPERATURE: -40°C to 85°C.²

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

How To Order

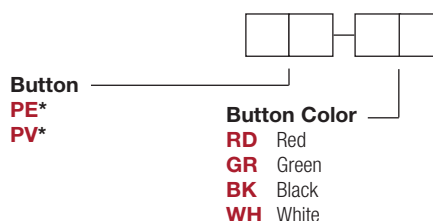
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box. **Some of the configurations may not be available or could require some development.**

Switch



Button

Buttons must be ordered separately.
 Shipped in bulk.



*Compatible with H1 and H3 actuator models only.

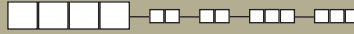




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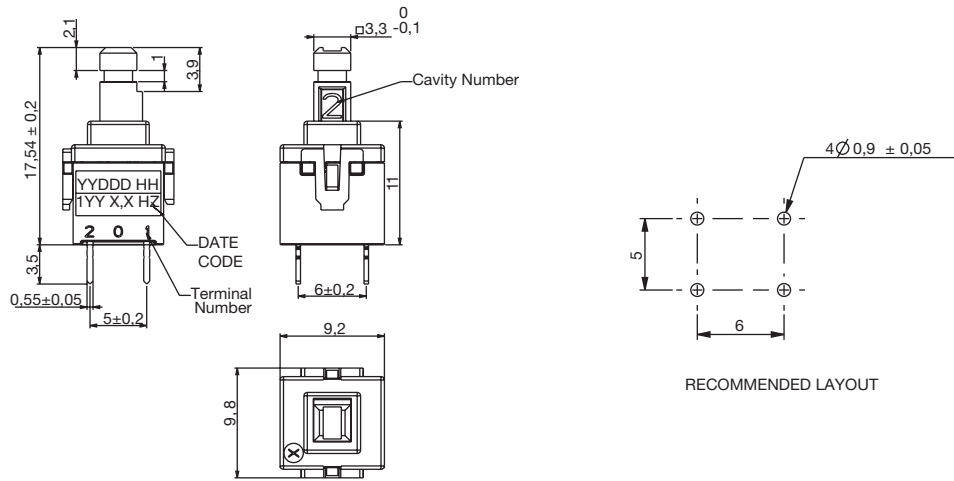
A

SERIES

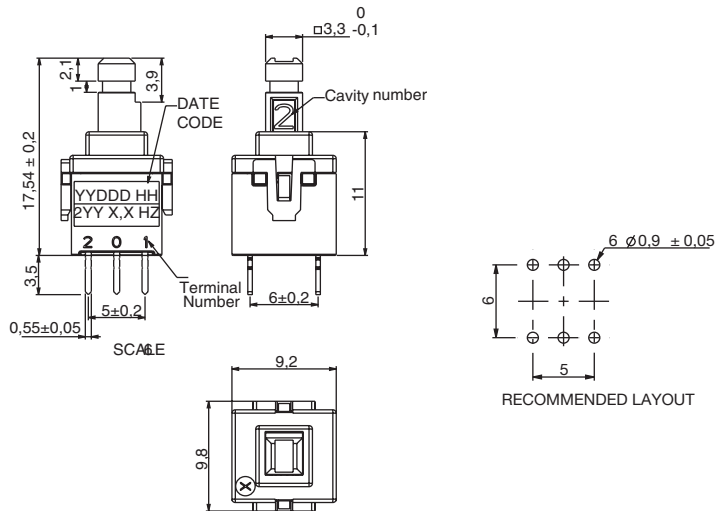
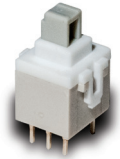


Pushbutton

PVA1 (DPST)



PVA2 (DPDT)

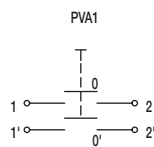


MECHANICAL FUNCTION

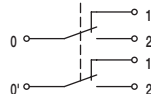


OPTION CODE	FUNCTION
OA	Momentary
EE	Push-Push

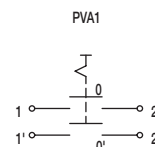
OA



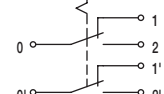
PVA2



EE



PVA2



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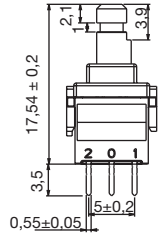
A

Pushbutton

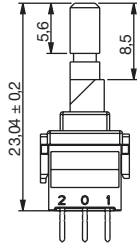
TOTAL HEIGHT



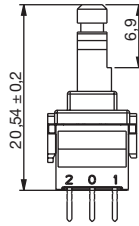
H1 17,5 MM



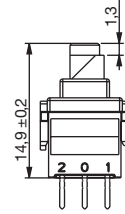
H2 23 MM



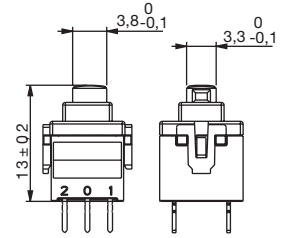
H3 20,5 MM



H4 15 MM



H5 13 MM
(MOMENTARY ONLY)

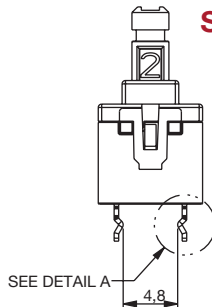
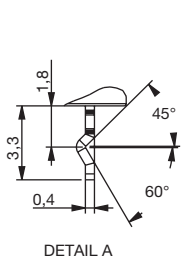


OPERATING FORCE

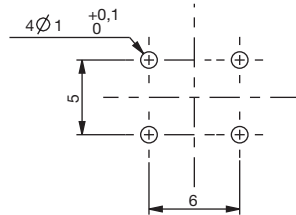


1.2N PVA1 ONLY
1.7N PVA2 ONLY
3.5N

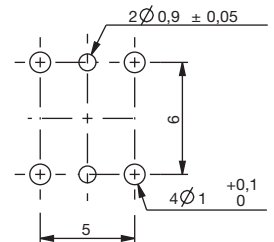
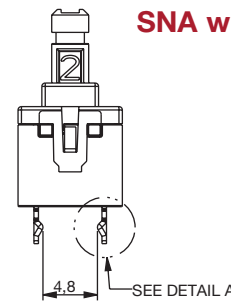
TERMINATION



SNA with PVA1



SNA with PVA2

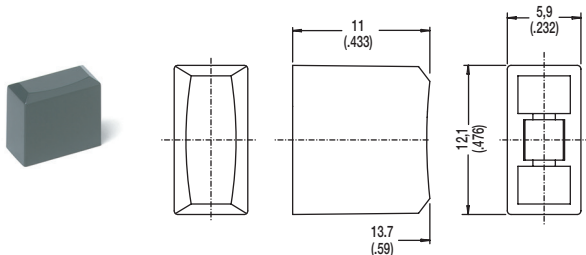


BUTTONS

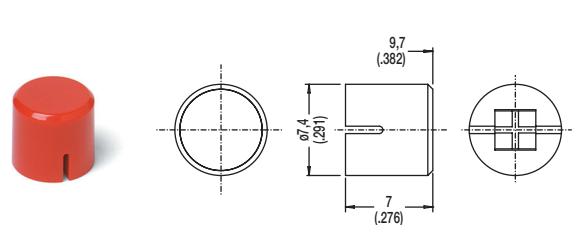


BUTTONS MUST BE ORDERED SEPARATELY. SHIPPED IN BULK.

PE



PV



OPTION CODE	COLOR
RD	Red
GY	Gray
BK	Black
WH	White

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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