

PVA

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

OPERATING FORCE: 1,2N; 1,7N; 2,2N; 3,5N

Process

SOLDERABILITY:

Wave soldering, compatible with lead free soldering profile

Hand soldering, 350°C for 3 seconds

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): $\geq 1 \times 10^5$ operations

CONTACT RESISTANCE: Initial $\leq 100 \text{ m}\Omega$

After life: 150 $\text{m}\Omega$

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

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

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

	P V A V 2
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
2.2N	
3.5N	
Termination	
NONE	Standard terminals
SNA	Snap-in terminals

Button

Buttons must be ordered separately.
Shipped in bulk.

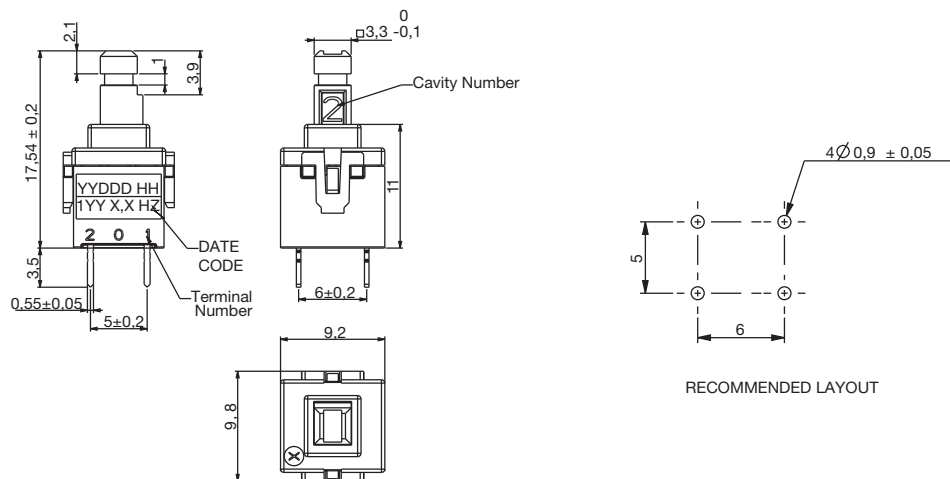
Button	
PE	
PV	
Button Color	
RD	Red
GR	Green
BK	Black
WH	White

PVA Short Stroke Key Switches

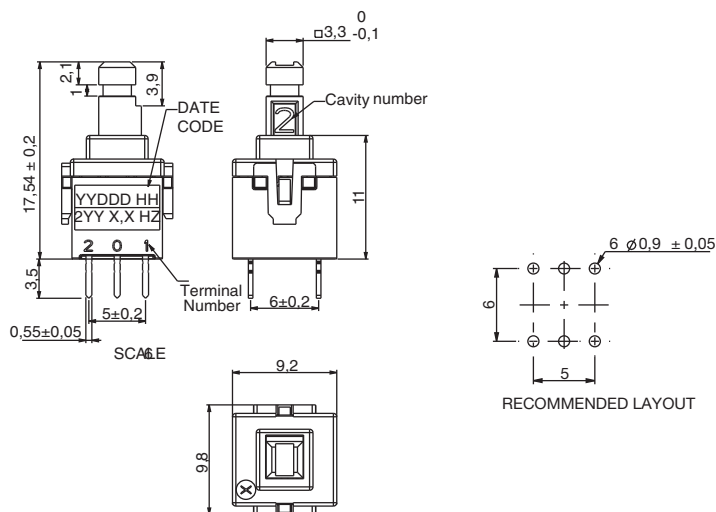
SERIES



PVA1 (DPST)



PVA2 (DPDT)

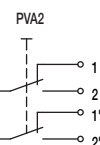
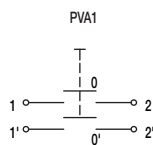


MECHANICAL FUNCTION

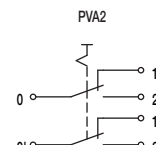
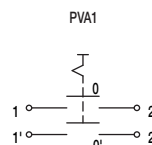


OPTION CODE	FUNCTION
OA	Momentary
EE	Push-Push

OA



EE

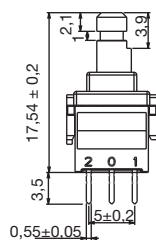


Dimensions are shown: mm
Specifications and dimensions subject to change

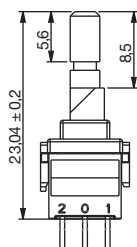
PVA Short Stroke Key Switches

TOTAL HEIGHT

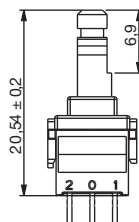
H1 17,5 MM



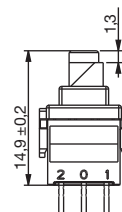
H2 23 MM



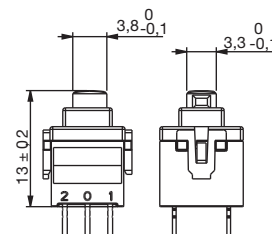
H3 20,5 MM



H4 15 MM



H5 13 MM
(MOMENTARY ONLY)

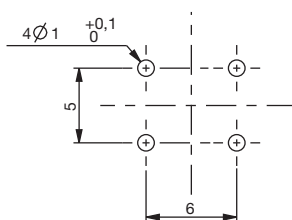
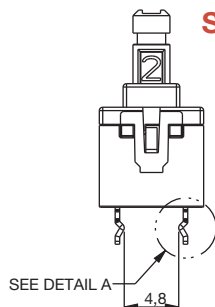
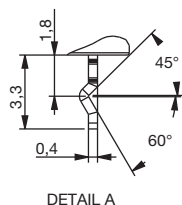


OPERATING FORCE

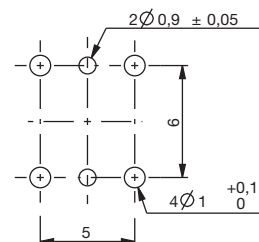
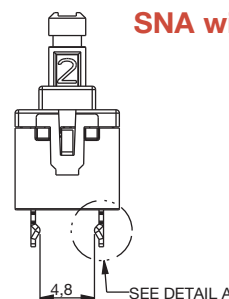
1.2N PVA1 ONLY
1.7N PVA2 ONLY
2.2N
3.5N

TERMINATION

SNA with PVA1



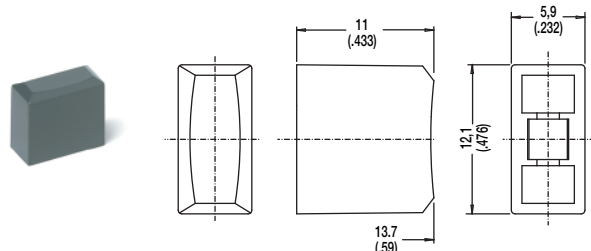
SNA with PVA2



BUTTONS

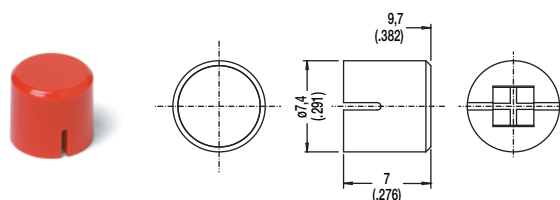
BUTTONS MUST BE ORDERED SEPARATELY. SHIPPED IN BULK.

PE



OPTION CODE	COLOR
RD	Red
GY	Gray
BK	Black
WH	White

PV



First Angle
Projection

Dimensions are shown: mm
Specifications and dimensions subject to change