

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

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

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 $\leq 100 \text{ m}\Omega$

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									
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		



Dimensions are shown: mm
Specifications and dimensions subject to change



D

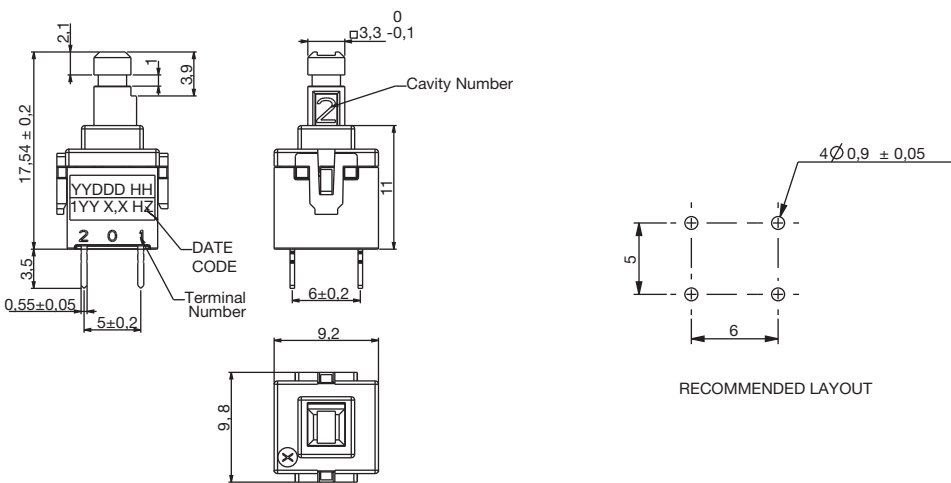
Key Switches

PVA

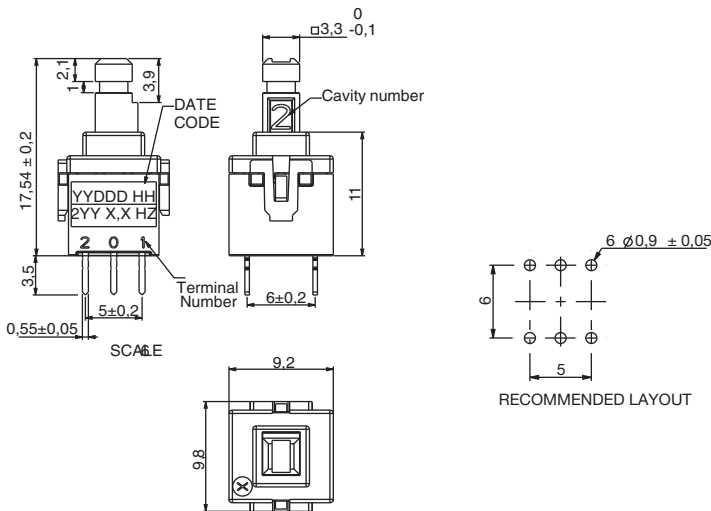
Short Stroke Key Switches

SERIES 

PVA1 (DPST)



PVA2 (DPDT)

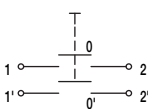


MECHANICAL FUNCTION 

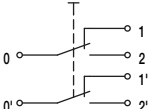
OPTION CODE	FUNCTION
OA	Momentary
EE	Push-Push

OA

PVA1

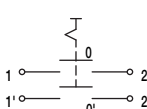


PVA2

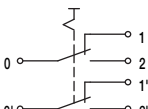


EE

PVA1



PVA2



First Angle
Projection

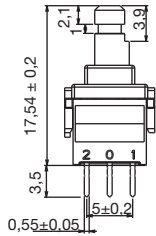
Dimensions are shown: mm
Specifications and dimensions subject to change



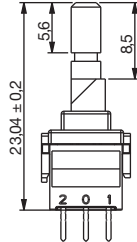
PVA Short Stroke Key Switches

TOTAL HEIGHT

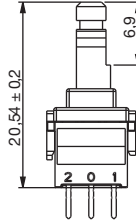
H1 17,5 MM



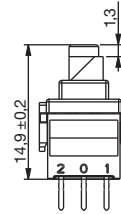
H2 23 MM



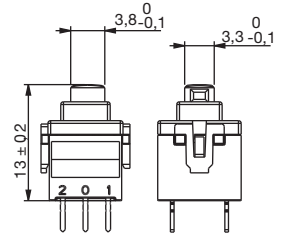
H3 20,5 MM



H4 15 MM



H5 13 MM
(MOMENTARY ONLY)

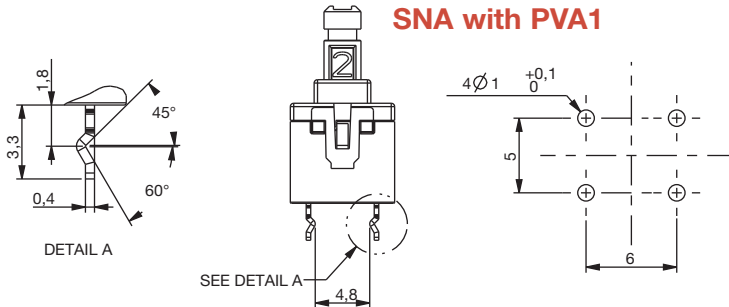


OPERATING FORCE

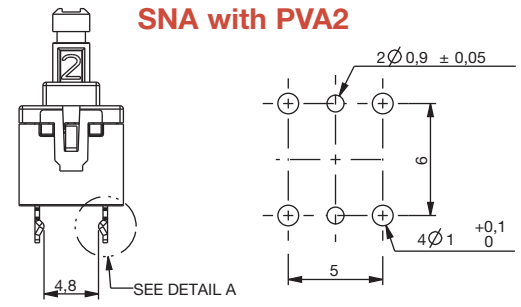
1.2N PVA1 ONLY
1.7N PVA2 ONLY
3.5N

TERMINATION

SNA with PVA1



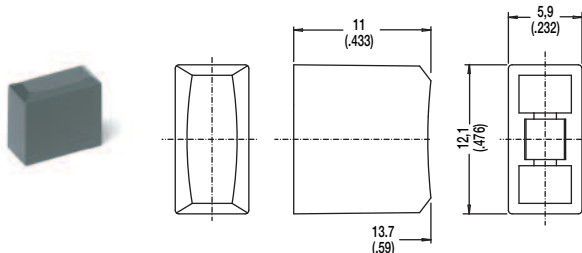
SNA with PVA2



BUTTONS

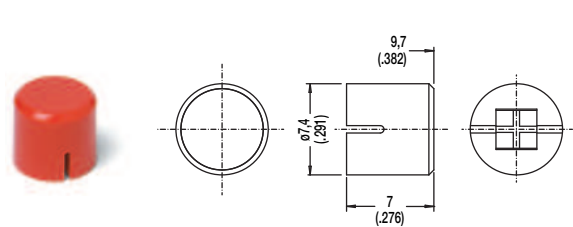
BUTTONS MUST BE ORDERED SEPARATELY. SHIPPED IN BULK.

PE



OPTION CODE	COLOR
RD	Red
GY	Gray
BK	Black
WH	White

PV



First Angle
Projection

C&K