

PVA

Short Stroke Key Switches

Features/Benefits

- **Compact design**
- **Short stroke to latch**
- **Wide variety of actuator heights and styles**
- **Adapted for medium power applications**
- **RoHS compliant and compatible**

Typical Applications

- **Automotive (air conditioning, lighting)**
- **Video, remote controls**
- **Electronic games**



Construction

FUNCTION: Momentary, Push-Push

CONTACT ARRANGEMENT:¹

PVA1: 2 make contacts (DPST)

PVA2: 2 change over contacts (DPDT)

SWITCHING MODE: Non-shorting

TERMINALS: PC pins²

Mechanical

TOTAL TRAVEL / LATCHING TRAVEL:

OA: 2,4± 0,2 (0.094 ± 0.008)

EE: 2,4± 0,2 (0.094 ± 0.008)/ 1,5 (0.059)

OPERATING FORCE: 1.2 ± .25 (120 grams);

1.7 ± .25 (170 grams); 3.5 ± .25 (350 grams)

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, consult Customer Service Center.

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

After life: 150 mΩ

INSULATION RESISTANCE: ≥ 10¹⁰ Ω

BOUNCE TIME: ≤ 3 ms

Environmental

OPERATING TEMPERATURE: -40°C to 85°C.³

1) Other contact arrangements available by request

2) "Snap-in" contacts on request, Version SNA with pins bent inside (standard)

3) With button +70°C

* By 13,8 VDC, the PVA supports a peak current of 500 mA and a continuous current of 200 mA.

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								
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 only)										
Termination											
NONE	Standard terminals										
SNA	Snap-in terminals										
Operating Force											
NONE	PVA1 1.2N										
	PVA2 1.7N										
3.5N	3.5 N for PVA1 and PVA2										

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

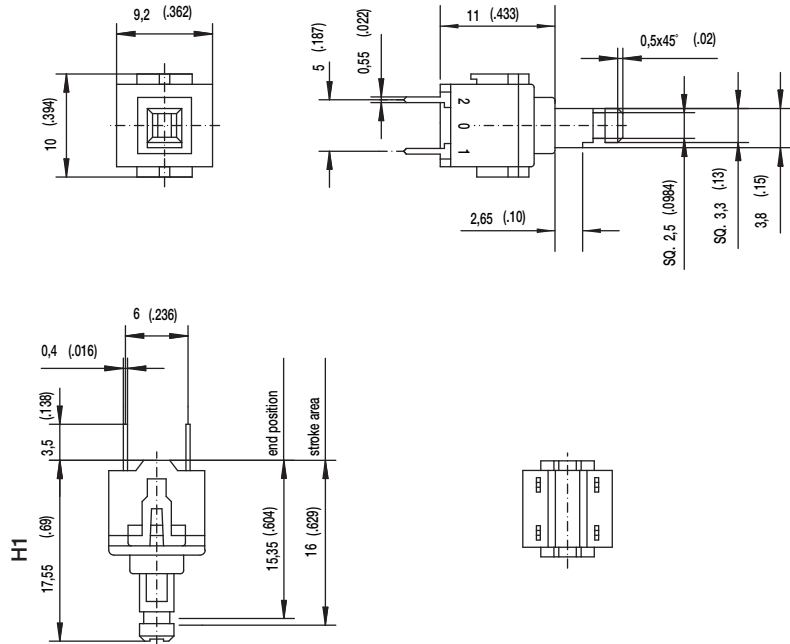
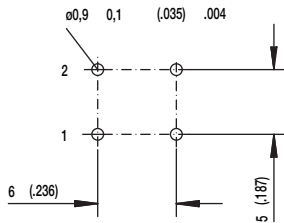
Key Switches

PVA Short Stroke Key Switches

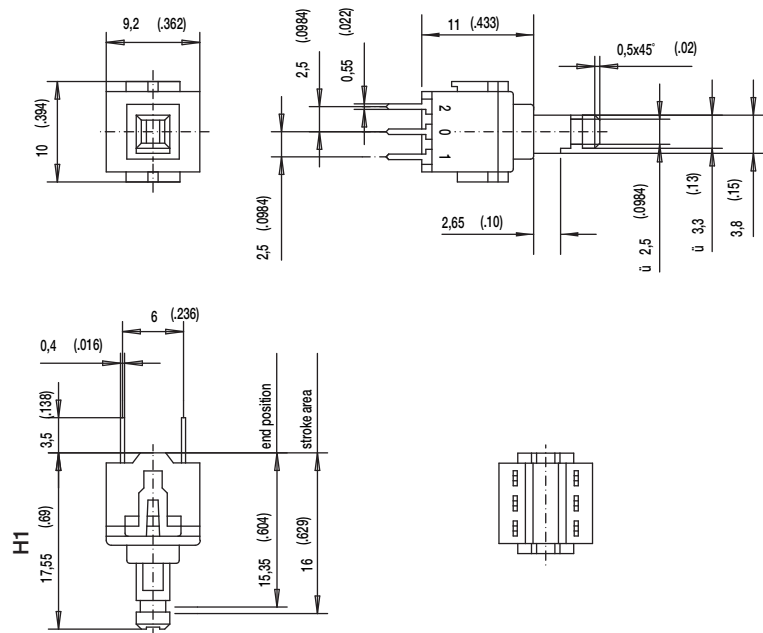
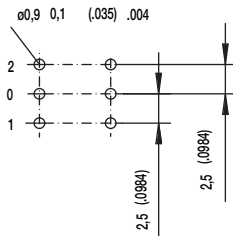
SERIES



PVA1 (DPST)



PVA2 (DPDT)

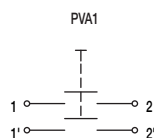


MECHANICAL FUNCTION

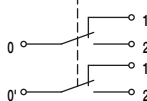


OPTION CODE	FUNCTION
OA	Momentary
EE	Push-Push

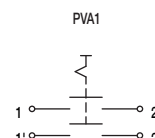
OA



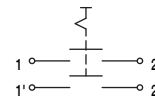
PVA2



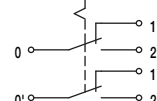
EE



PVA1



PVA2



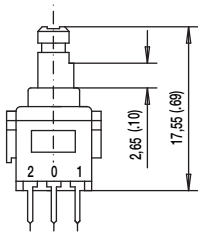
First Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

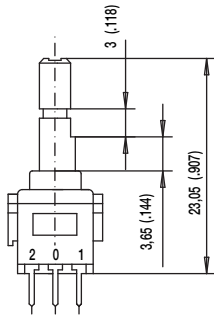
PVA Short Stroke Key Switches

TOTAL HEIGHT

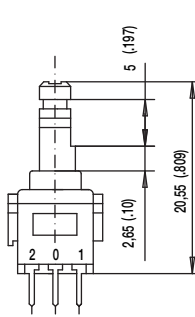
H1 17,5 MM



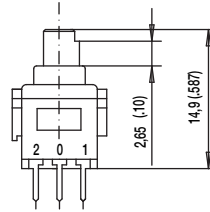
H2 23 MM



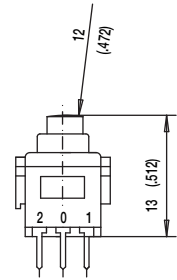
H3 20,5 MM



H4 15 MM

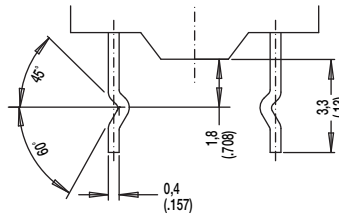
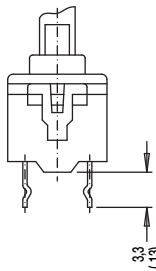


H5 13 MM
(MOMENTARY ONLY)



TERMINATION

SNA



OPERATING FORCE

NONE PVA1 1.2 N
PVA2 1.7 N

3.5N 3.5 NEWTONS PVA1 & PVA2



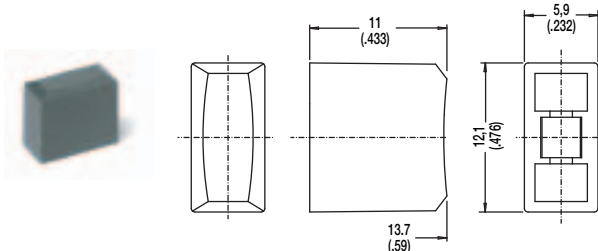
D

Key Switches

BUTTONS

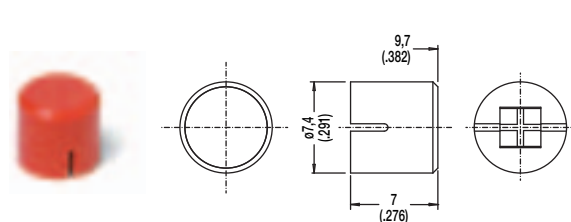
BUTTONS MUST BE ORDERED SEPARATELY. SHIPPED IN BULK.

PE



OPTION CODE	COLOR
RD	Red
GY	Gray
BK	Black
WH	White

PV



Dimensions are shown: mm
Specifications and dimensions subject to change