

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

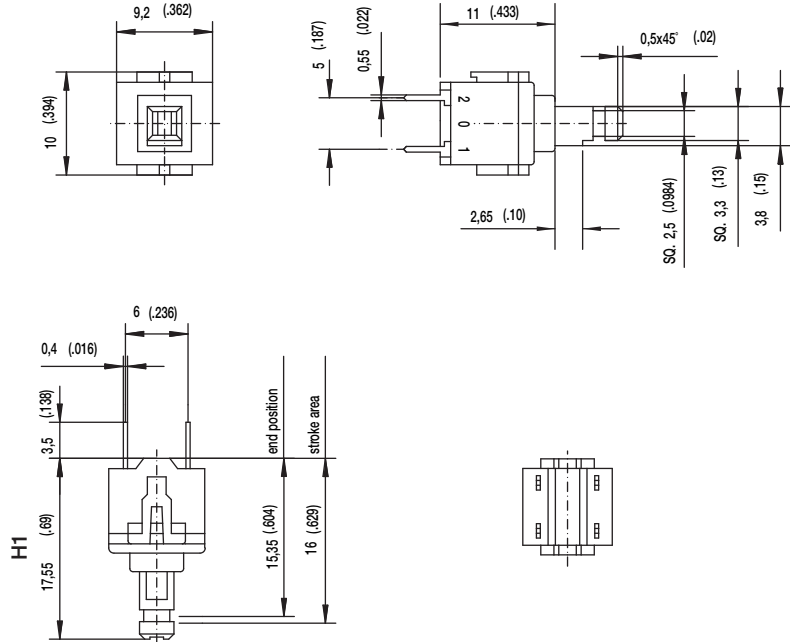
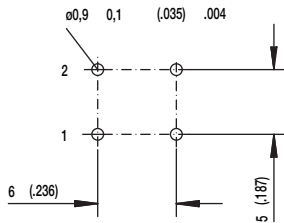
Key Switches

PVA Short Stroke Key Switches

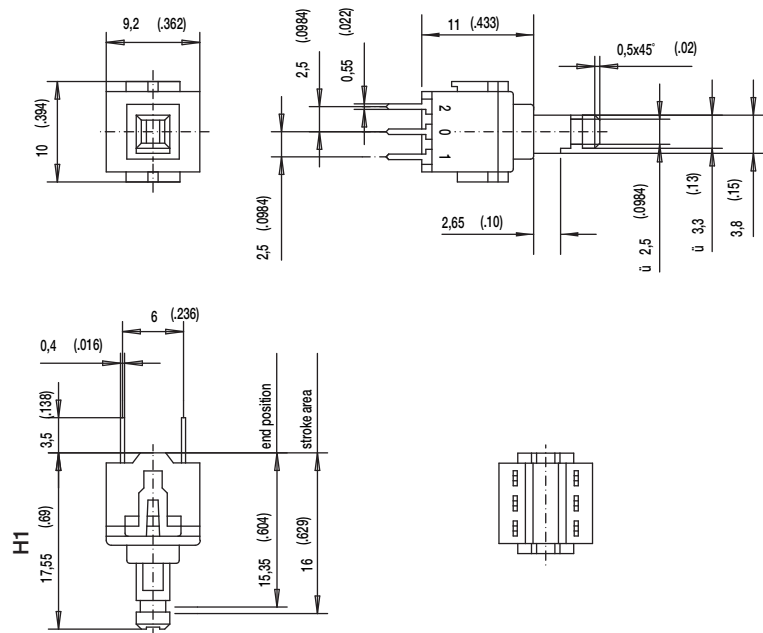
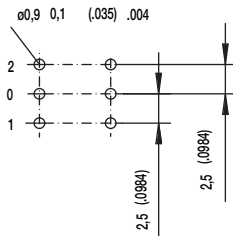
SERIES



PVA1 (DPST)



PVA2 (DPDT)

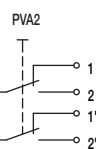
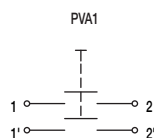


MECHANICAL FUNCTION

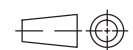
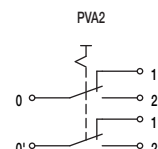
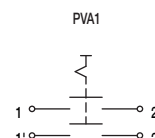


OPTION CODE	FUNCTION
OA	Momentary
EE	Push-Push

OA



EE



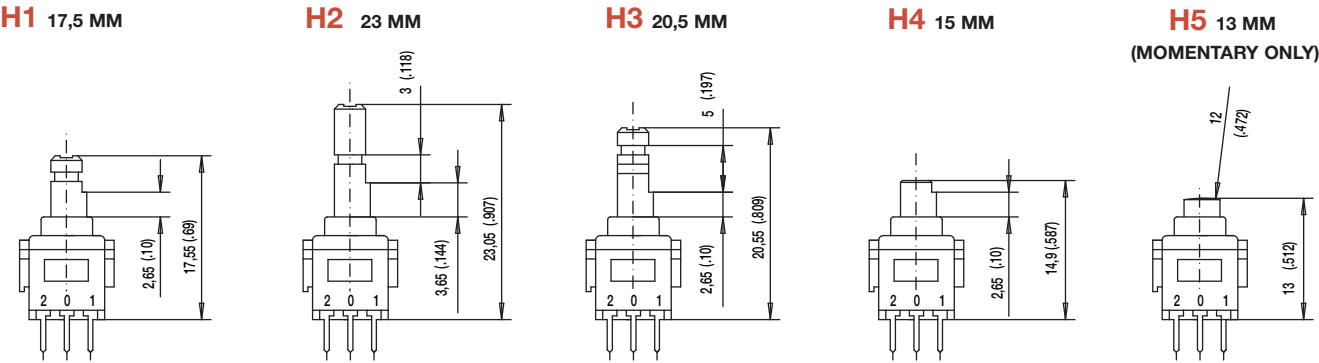
First Angle
Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

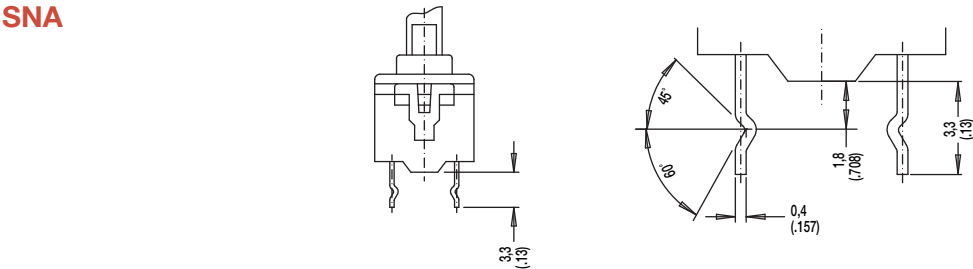
PVA

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TOTAL HEIGHT



TERMINATION



OPERATING FORCE

NONE

PVA1 1.2 N

PVA2 1.7 N

3.5N

3.5 NEWTONS PVA1 & PVA2



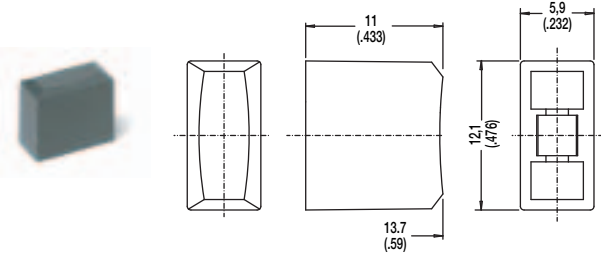
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Key Switches

BUTTONS

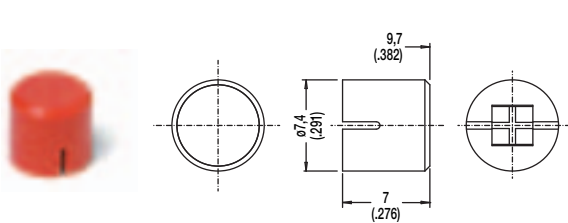
BUTTONS MUST BE ORDERED SEPARATELY. SHIPPED IN BULK.

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