

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)

MODE SWITCHING: 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:

Hand soldering: 350C for 3 seconds

Wave or bath soldering: 260C for 5 seconds

Cleaning: Use solvents compatible with ABS

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 10⁶ operations

EE (push-push) ≥ 1 x 10⁶ operations

CONTACT RESISTANCE: Initial ≤ 100 mΩ; 50 mΩ

After life: 150 mΩ

INSULATION RESISTANCE: ≥ 10⁹ Ω

BOUNCE TIME: ≤ 3 ms

Environmental

OPERATING TEMPERATURE: -40C to 85C.³

1) Other contact arrangements available by request

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

3) With button +70C

* By 13.8VDC, the PVA supports a peak current of 500mA and a continuous current of 200mA.

Note: Specifications listed above are for switches with standard options.

For information on specific and custom switches, consult Customer Service Center.

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.

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 (inch)
Specifications and dimensions subject to change

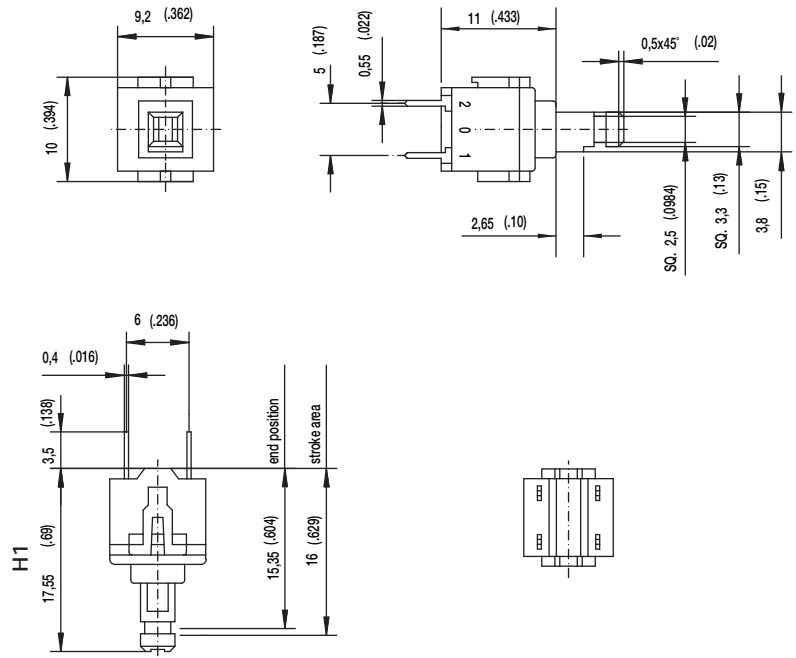
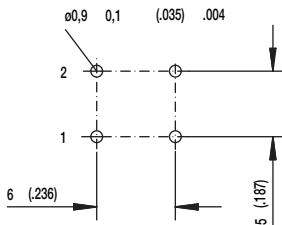


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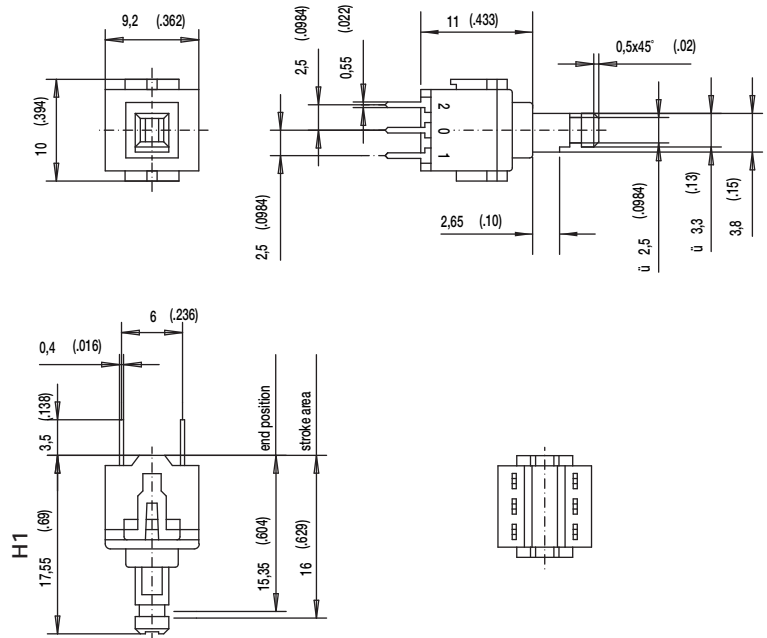
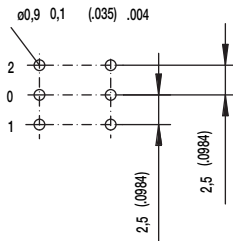
SERIES



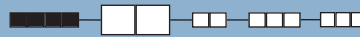
PVA1 (DPST)



PVA2 (DPDT)

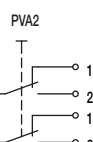
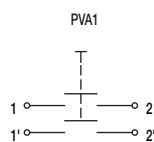


MECHANICAL FUNCTION

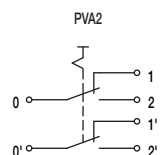
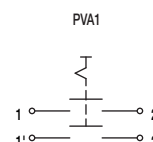


OPTION CODE	FUNCTION
OA	Momentary
EE	Push-Push

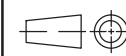
OA



EE



C&K



First Angle
Projection

Dimensions are shown: mm (inch)
Specifications and dimensions subject to change

www.ck-components.com



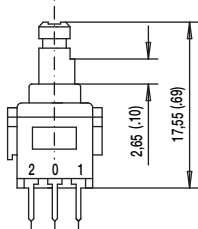
E

Key Switches

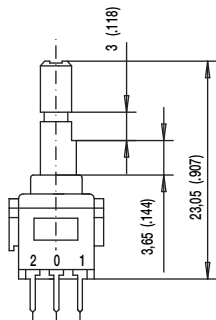
PVA Short Stroke Key Switches

TOTAL HEIGHT The diagram shows a horizontal sequence of blocks representing the total height. From left to right: a stack of 3 black blocks, a single black block, a stack of 2 white blocks, a stack of 3 white blocks, and a stack of 2 white blocks. Each stack is connected to the next by a horizontal line.

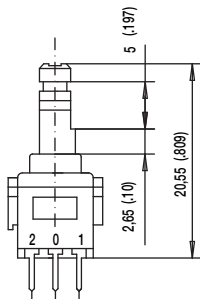
H1 17,5 MM



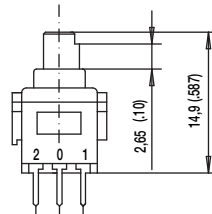
H2 23 MM



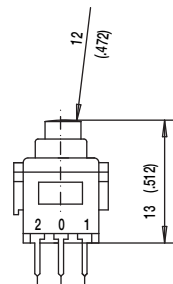
H3 20,5 MM



H4 15 MM

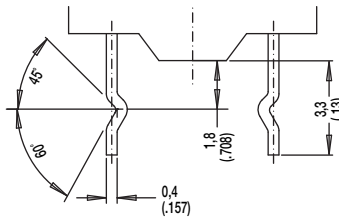
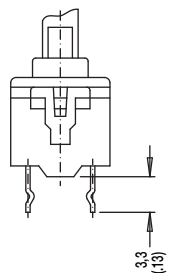


H5 13 MM
(MOMENTARY ONLY)



TERMINATION

SNA



OPERATING FORCE

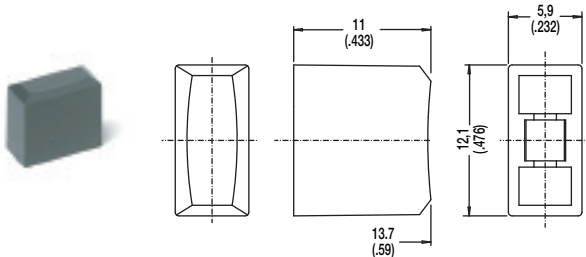
NONE PVA1 1.2 N
PVA2 1.7 N

3.5N 3.5 NEWTONS PVA1 & PVA2



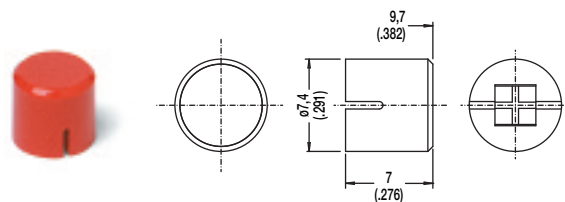
BUTTONS MUST BE ORDERED SEPARATELY. SHIPPED IN BULK.

PE



OPTION CODE	COLOR
RD	Red
GY	Gray
BK	Black
WH	White

PV



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