# Snap-action switching element PIT

When using the switching element, the application guidelines must be observed.

#### Switching system

The double-break, snap-action switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The snap-action switching element is fitted with self-cleaning contacts.

Up to three switching elements can be snapped to each actuator.

Snap-action switching elements are not permissible for emergency

stop pushbuttons!

### Material

### Housing

The indicator lights/switches may be installed in enclosures with protection class 2 according to DIN EN 61140.

The enclosure must at least have enclosure class 2 according to

UL50E.

#### Material of contact

## Hard silver and gold-silver

#### Switch housing

#### Plastic

Terminals

#### Mechanical characteristics

## PIT push-in terminal

stripping strands

- max. number of strands

- max. wire cross section 1.0 mm<sup>2</sup>

- stripping length wire 8 mm

- max, number of wire

- max. strand cross section 0.75 mm<sup>2</sup>

use stranded wires only

with wire end ferrules

of 8 mm length

Only one polarity is allowed on each side when wiring.

# Tightening torque

Screws at the plastic mounting flange max. 0.4-0.5 Nm Screws at the metal mounting flange max. 0.25-0.3 Nm

Actuating force

### 1 Normally closed 1.9 N

1 Normally open 2 N

Actuating travel Approx.  $5.8 \, \text{mm} \pm 0.2 \, \text{mm}$ 

#### Mechanical lifetime

(with 1 switching element)

Pushbutton maintained action

Pushbutton momentary action

Selector switch maintained action 1.25 million cycles of operation

Selector switch momentary action

Keylock switch maintained action Keylock switch momentary action 1.5 million cycles of operation

3 million cycles of operation

2.5 million cycles of operation

25 000 cycles of operation

50 000 cycles of operation

# Electrical characteristics

#### Standards The switches comply with DIN EN 60947-1/DIN EN 60947-5-1

Rated Insulation Voltage U

## 500 V, as per DIN EN 60947-5-1

Rated impulse withstand voltage Uimn

4 kV, according to EN/IEC 60947-5-1

Electrical life

50 000 cycles of operation

Thermal current Ith

### Max. current at continuous operation and limit temperatures which

do not exceed the specified max. values.

AC15

6,0A

Switching voltage and switching current

#### as per EN IEC 60947-5-1

DC13 voltage

voltago	D0.0	, , , ,
24 V	2,5A	6,0 <i>A</i>
48 V		6,0 <i>A</i>
60 V	0,8A	
110 V	0,6A	
120 V		6,0 <i>A</i>

#### Recommended minimum operational data

Gold-silver contacts: Voltage 24 VDC

230 V

Current 5mA

Hard silver contacts:

Voltage 24 VDC Current 50 mA

### Protection class

Indicators and switches, fit for mounting into devices with protection class II

#### Ambient conditions

#### Storage temperature

-40 °C ... +85 °C

#### Operating temperature

-40°C...+55°C

(other temperatures on request)

#### Protection degree

IP20

#### Shock resistance

(single impacts, semi-sinusoidal)

300 m/s<sup>2</sup> pulse width 11 ms, as per DIN EN 60068-2-27

#### Vibration resistance

(sinusoidal)

100 m/s<sup>2</sup> at 10 Hz... 500 Hz, as per DIN EN 60068-2-6 and

EN 61373 Increased broad band noise, class 1B

#### Pollution degree

3

#### Climatic resistance

Relative humidity

10 ... 95 % non-condensing

### Approvals

#### Approbations

CB (IEC 60947-5-1)

DNV

EAC

NFF

cULus

**VDE** 

#### Conformities

CE

CCC

UKCA

# **Mouser Electronics**

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