## 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

## Mechanical characteristics

## Terminals

PIT push-in terminal - max. wire cross section - stripping length wire - max. number of wire

- max. strand cross section - stripping strands
- max. number of strands


## Mechanical lifetime

(with 1 switching element)
Pushbutton maintained action
Pushbutton momentary action
Selector switch maintained action Selector switch momentary action Keylock switch maintained action Keylock switch momentary action
1.5 million cycles of operation

3 million cycles of operation 1.25 million cycles of operation
2.5 million cycles of operation 25000 cycles of operation 50000 cycles of operation

## Electrical characteristics

## Standards

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

Rated Insulation Voltage $\mathrm{U}_{\mathrm{i}}$
500 V , as per DIN EN 60947-5-1

Rated impulse withstand voltage $\mathrm{U}_{\mathrm{imp}}$
4 kV , according to EN/IEC 60947-5-1

## Electrical life

50000 cycles of operation

## Thermal current $\mathrm{t}_{\mathrm{th}}$

Max. current at continuous operation and limit temperatures which do not exceed the specified max. values.
6 A

Switching voltage and switching current
as per EN IEC 60947-5-1

| voltage | DC13 | AC15 |
| :--- | :--- | :--- |
| 24 V | $2,5 \mathrm{~A}$ | $6,0 \mathrm{~A}$ |
| 48 V |  | $6,0 \mathrm{~A}$ |
| 60 V | $0,8 \mathrm{~A}$ |  |
| 110 V | $0,6 \mathrm{~A}$ |  |
| 120 V |  | $6,0 \mathrm{~A}$ |
| 230 V |  | $6,0 \mathrm{~A}$ |

## Recommended minimum operational data

Gold-silver contacts:
Voltage 24VDC
Current 5 mA

Hard silver contacts:
Voltage 24VDC
Current 50 mA

## Protection class

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

## Actuating force

1 Normally closed 1.9 N
1 Normally open 2 N

## Ambient conditions

Storage temperature Approbations
$-40^{\circ} \mathrm{C} \ldots+85^{\circ} \mathrm{C}$

Operating temperature
$-40^{\circ} \mathrm{C} \ldots+55^{\circ} \mathrm{C}$
(other temperatures on request)

Protection degree
IP20

## Shock resistance

(single impacts, semi-sinusoidal)
$300 \mathrm{~m} / \mathrm{s}^{2}$ pulse width 11 ms , as per DIN EN 60068-2-27

Vibration resistance
(sinusoidal)
$100 \mathrm{~m} / \mathrm{s}^{2}$ at $10 \mathrm{~Hz} \ldots 500 \mathrm{~Hz}$, as per DIN EN 60068-2-6 and EN 61373 Increased broad band noise, class 1B

## Approvals

## Approbations

CB (IEC 60947-5-1)
DNV
EAC
NFF
cULus
VDE

## Conformities

CE
CCC
UKCA
Pollution degree
3

## Climatic resistance

Relative humidity
10 ... $95 \%$ non-condensing

