

Actuator with snap-action switching element**Switching system**

1 or 2 self-cleaning, snap-action switching elements.
1 or 2 double-throw contacts.

Material**Material of contact**

Standard version:
Silver ($U > 20V$)
Special versions: (on request)
Gold/Silver 700Au/300Ag ($U < 50V$)
Silver/Palladium 700Ag/300Pd ($U > 20V$) for atmospheres containing sulphur

Switch housing

Thermosetting material, heat-resistant

Indicator housing with reduced length

Polyamide

Mechanical characteristics**Terminals**

Screw terminal (with self-lifting clip):
max. wire cross-section, $2 \times 2.5 \text{ mm}^2$
max. wire cross-section of stranded cable, $2 \times 1.5 \text{ mm}^2$

Tightening torque

For fixing sleeve max. 20Ncm

Actuating force

6N ... 12N

Actuating travel

5mm

Mechanical lifetime

Momentary action 2 million operations
Maintained action 1 million operations

Electrical characteristics**Standards**

The switches comply with the "Standards for low-voltage switching devices" IEC 60947-5-1

Rated insulation voltage

400VAC/440VDC, as per IEC 60947-5-1

Conventional free air thermal current

10A

The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values.

Switch rating

400VAC, 10A, $\cos\phi$ 0.95, as per IEC 60947-5-1
250VAC, 10A, as per UL

Electric strength

2500VAC, 50Hz, 1 min. between all terminals and earth, as per IEC 60947-5-1

Environmental conditions**Storage temperature**

$-30^\circ\text{C} \dots +85^\circ\text{C}$

Service temperature

$-25^\circ\text{C} \dots +55^\circ\text{C}$

For indicators and illuminated pushbuttons mounted as a block, make sure the heat can escape freely.

Protection degree

Front side IP 40, IP 65 with spray cover, as per IEC 60529

Shock resistance

15g for 11 ms, as per IEC 60068-2-27

Vibration resistance

10g at 10 ... 2000Hz, amplitude 1.0mm, as per IEC 60068-2-6

Approvals**Approbations**

CB (IEC 60947-5-1)
CSA
Germanischer Lloyd
UL

Declaration of conformity

CE

Buzzer**Buzzer system****System**

Electronic non-contacting buzzer with IC oscillator

Material**Buzzer case**

Thermosetting material

Front cap

Polycarbonate (PC)

Front bezel

Polymethylacrylate

Mechanical characteristics**Terminals**

Screw terminal

Tightening torque

For fixing sleeve max. 20 Ncm

Electrical characteristics**Frequency (tone)**

Approx. 2.8 kHz

Sound pressure

85 dB (A) ± 8 dB at a distance of 0.1 m

Volume variable with a $M\Omega$ potentiometer or corresponding fixed resistor

Operation Voltage/Current

typical

10 ... 55 VAC 10 ... 75 VDC

25 mA 15 mA

Environmental conditions**Storage temperature**

-40 °C ... +85 °C

Operating temperature

-25 °C ... +55 °C

Protection degree

Front side IP 40, as per IEC 60529

Approvals**Approbations**

CB (IEC 60947-5-1)

Declaration of conformity

CE

Keylock switch

The standard lock number is YB1 (Part No. 02-989.001)

Additional lock numbers are available:

002 last digit = YB2; 003 last digit = YB3; 004 last digit = YB4

005 last digit = YB5; 046 last digit = YB46; 047 last digit = YB47

048 last digit = YB48; 049 last digit = YB49; 050 last digit = YB50