

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

The snap-action switching system was designed for switching low powers in electronic circuits.
Single-break snap-action contact.

Material**Lens**

Polymethylacrylate (PMMA), Polycarbonate (PC)

Material of contact

Gold contact on nickel plating

Actuator housing

Polyamide, colour black

Mechanical characteristics**Terminals**

The terminals can be used as soldering terminals.
Max. wire diameter: 2 x 0.5 mm²
Max. wire cross-section of stranded cable 1 x 0.75 mm²
Wire cross-section of terminal 1.6 x 0.4 mm

Tightening torque

for fixing nut max. 20 Ncm

Actuating force

1.4 N

Actuating travel

2.2 mm ±0.2 mm

Rebound time

≤ 2.5 ms

Mechanical lifetime

Momentary action 2 million cycles of operation
Maintained action 1 million cycles of operation,
as per IEC 60512-5-9a

Electrical characteristics**Contact resistance**

≤ 100 mΩ starting value (initial), as per IEC 60512-2-2b

Electrical life

≥ 500 000 cycles of operation at 30 VDC, 100 mA, as per IEC 60512-5-9c

Power consumption LED

20 mA

Switch rating

min. 10 μA at 100 μV
max. 100 mA at 42 VAC/VDC

Electric strength

500 VAC, 50 Hz, 1 min. between all terminals and earth,
as per IEC 60512-2-11

Environmental conditions**Storage temperature**

-40 °C ... +80 °C

Service temperature

-25 °C ... +65 °C

Protection degree

IP 40 front side, as per IEC 60529

Shock resistance

(Single impacts, semi-sinusoidal)
50 g for 11 ms, as per IEC 60068-2-27

Vibration resistance

(sinusoidal) 10 g at 10–2000 Hz, amplitude 0.75 mm,
as per IEC 60512-4-4