

**Pushbutton and Illuminated pushbutton****Switching system**

Short-travel switching system with 2 independent contact points and tactile operation.

Guarantees reliable switching even of very light loads.

Fitted with 1 normally open contact.

**Material****Lens**

Polycarbonate (PC)

**Front bezel**

Thermoplastic Elastomer (TPE)

**Frame**

Thermoplastic Polyester (PBT)

**Material of contact**

Gold (Au)

**Switching element**

Thermoplastic Polyester (PET, PBT) and Polyacetale (POM)

**Actuator housing**

Thermoplastic Polyester (PBT)

**Mechanical characteristics****Tightening torque**

Fixing screw 40 Ncm recommended

Fixing nut max. 50 Ncm

**Actuating force**

2.7 N  $\pm$  1 N measured at the switching element

5 N measured at the lens

**Actuating travel**

Switching element 0.4 mm

**Rebound time**

$\leq$  1 ms

**Resistance to heat of soldering**

260 °C, 5 s, as per IEC 60068-2-20

**Mechanical lifetime**

$\geq$  1 Million operations as per IEC 60512-5-9a

**Electrical characteristics****Contact resistance**

Starting value (initial)  $\leq$  100 m $\Omega$  as per IEC 60512-2-2b

**Isolation resistance**

$\geq$  10<sup>9</sup>  $\Omega$  between all terminals at 100 VDC, as per IEC 60512-2-3a

**Electrical life**

$\geq$  500 000 operations at 42 VDC, 50 mA as per IEC 60512-5-9c.

When attention is paid to the direction of current flow from terminal 3/4 to 1/2 the electrical life can be prolonged.

**Electrostatic discharge (ESD)**

15 kV

**Switch rating**

Switching voltage min. 50 mV AC/DC

max. 42 V AC/DC

Switching current min. 10  $\mu$ A AC/DC

max. 100 mA AC/DC

Power rating max. 2 W

**Electric strength**

500 VAC, 50 Hz, 1 min, as per IEC 60512-2-4a

**Environmental conditions****Storage temperature**

-40 °C ... +80 °C

**Operating temperature**

-25 °C ... +70 °C

**Front protection**

Switching element IP 40 (fluxproof to DIN 41640 Part 84)  
front IP 67 or IP 40

**Shock resistance**

(semi-sinusoidal)

max. 500 m/s<sup>2</sup>, pulse width 11 ms, 3-axis,

as per EN IEC 60068-2-27

**Vibration resistance**

(sinusoidal)

max. 100 m/s<sup>2</sup> at 10 Hz ... 500 Hz, 10 cycles, 3-axis,

as per EN IEC 60068-2-6

**Approvals****Declaration of conformity**

CE