

Pushbutton

Switching system

Snap-action changeover contact normally closed / normally open.
Switching function momentary or maintain.

Material

Housing

Stainless-steel polished or brushed
Brass nickel-plated or galvanically gold-plated

Terminal housing

Polyamide 66 (PA66)

Contact material

Silver alloy

Mechanical characteristics

Mounting cut-out

Ø19 mm +0.3/+0.1 mm

Terminals

Soldering terminals 2.8 x 0.5 mm

Tightening torque

5 Nm min. – 12 Nm max. for fixing nut

Actuating force

3 ... 6 N

Actuating travel

Pushbutton momentary	2.5 mm
Pushbutton maintain	3 mm

Mechanical lifetime

Pushbutton momentary	1 Mio. cycles of operation
Pushbutton maintain	500 000 cycles of operation

Resistance to heat of soldering

Hand-soldering 260 °C, 3 sek.

Electrical characteristics

Rated Operational Voltage U_e

250 VAC/DC

Rated Insulation Voltage U_i

250 V

Illumination

LED red, green, blue, yellow, orange and white
LED and series resistor with polarity protection are built in.

Voltage	Current
3.5 VDC	15 mA
6 VAC/DC	15 mA
12 VAC/DC	14 mA
24 VAC/DC	10 mA
110 VAC	2 mA
230 VAC	1.3 mA

Contact resistance

<50 mΩ

Isolation resistance

>100 MΩ

Electrical life

100 000 cycles of operation

Switch rating IEC 60947-5-1

Switch rating AC $\cos\phi$ 0.3 service categorie AC-15

Voltage	Current
24 VAC	1 A
110 VAC	1 A
220 VAC	0.5 A

Switch rating DC service categorie DC-13

Voltage	Current
24 VDC	0.7 A
110 VDC	0.2 A
220 VDC	0.1 A

Switch rating UL 508

Switch rating AC $\cos\phi$ 0.75 ... 0.8)

Voltage	Current
120 VAC	5 A
240 VAC	3 A

Switch rating DC

Voltage	Current
24 VDC	1 A

Conventional free air thermal current I_{th}

5 A

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

Electrical strength

2500 VAC, 50 Hz 1 min. between life terminals and ground
1000 VAC, 50 Hz 1 min. between life terminals

Environmental conditions

Storage temperature

-40 °C ... +80 °C

Operating temperature

-30 °C ... +70 °C

Front protection

IP 65 and IP 67, as per IEC 60529

Impact resistance

IK 09, as per IEC 62262

Shock resistance

max. 500 m/s² according to IEC 60068-2-27

Vibration resistance

10 ... 55 Hz, amplitude 1.5 mm p-p according to IEC 60068-2-6

Climate resistance

Damp heat, 21 days according to IEC 60512-11

Saline mist, 96 hours according to IEC 60512-11

Approvals

Approbations

CB

UL

CCC

Declaration of conformity

CE

EAO reserves the right to alter specifications without further notice.

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