EAO – Your Expert Partner for Human Machine Interfaces

82-5161.1000 - Pushbutton 19 mm stainless-steel

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Configuration number : 82-10-000044

Mounting

Mounting cut-out Design

Front

Front dimension Front shape Front ring shape Front bezel material

Other Attributes Weight

Operating-/Indication part

Lens optics Lens material Lens colour Lens profile Lens illumination

IP-Rating

Front protection

Connection Method Terminal

Actuator

Switching action

Switching element

Switching current Contact material Contacts Switching system Switching voltage Typical switch ratings

Function Pushbutton Ø 19 mm flush

Ø 22 mm round flush Stainless steel

0.018 kg

opaque Stainless steel Stainless steel raised lens, flat non-illuminative

IP65, IP67, IK10

Solder, plug-in 28mm x 0.5mm

Momentary

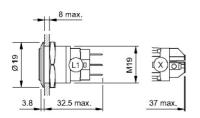
5 A Silver 1 C Snap-action switching element 250 V AC 0.7A@24VDC, 0.5A@220VAC



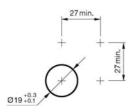
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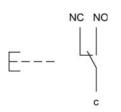
Dimensions



Mounting cut-outs



Wiring diagram



Component layout



Legend

Switching action: B = Momentary Contacts: C = Changeover



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...6N

Actuating travel

Pushbutton momentary Pushbutton maintain

Mechanical lifetime

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

2.5 mm

3 mm

Resistance to heat of soldering

Hand-soldering 260 °C, 3 sek.

Electrical characteristics

Rated Operational Voltage \mathbf{U}_{e} 250 VAC

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

| 0.0 | | 101181 |
|-----|--------|--------|
| 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

Electrical life

100 000 cycles of operation

Switch rating IEC 60947-5-1

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

| vollage | | Current |
|---------|-----|---------|
| 24 | VAC | 1 A |
| 110 | VAC | 1 A |
| 220 | VAC | 0.5 A |

Switch rating DC service categorie DC-13 Voltage Current

| VDC | 0.7 A |
|-----|-------|
| VDC | 0.2 A |
| VDC | 0.1 A |
| | VDC |

Switch rating UL 508

Switch rating AC cos (0.75 ... 0.8)VoltageCurrent120VAC5 A240VAC3 A

Switch rating DCVoltageCurrent24VDC1 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

Isolation resistance

500 VDC at min. 10 $M\Omega$ according to IEC 60512-2

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

Degree of pollution 2, as per EN IEC 60947-1

Pushbutton

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