

EAO – Your Expert Partner for Human Machine Interfaces

82-6171.1000 - Pushbutton 22 mm stainless-steel

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Configuration number: 82-10-000029

Mounting

Mounting cut-out Ø 22 mm
Design flush

Front

Front dimension Ø 25 mm
Front shape round
Front ring shape flush

Other Attributes

Weight 0.019 kg

Operating-/Indication part

Lens optics opaque
Lens material Stainless steel
Lens colour Stainless steel
Lens profile domed lens
Lens illumination non-illuminative

IP-Rating

Front protection IP6, IP67, IK10

Connection Method

Terminal Solder, plug-in 2.8 x 0.5 mm

Actuator

Switching action Momentary

Switching element

Switching current 5 A
Contact material Silver
Contacts 1 C
Switching system Snap-action switching element
Switching voltage 250 V AC
Typical switch ratings 1A@24VDC, 0.5A@220VAC

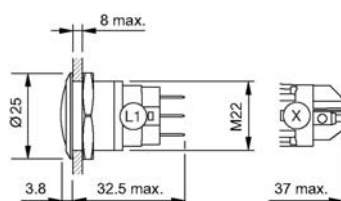
Function

Pushbutton

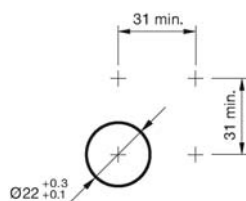
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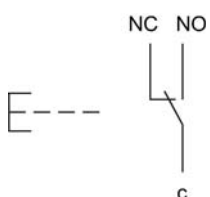
Dimensions



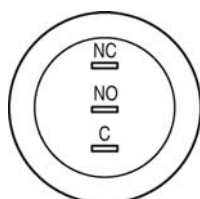
Mounting cut-outs



Wiring diagram



Component layout



Legend

Switching action: B = Momentary

Contacts: C = Changeover

Indicator, Pushbutton, Illuminated pushbutton
Switching system

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

Material
Housing

Stainless-steel
Stainless-steel chrome-coloured
Brass gold-coloured
Aluminium natural anodized

Terminal housing

Polyamide 66 (PA66)

Contact material

Silver alloy
Silver contacts gold-plated

Mechanical characteristics
Mounting cut-out

Ø 16 mm +0.3/+0.1 mm
Ø 19 mm +0.3/+0.1 mm
Ø 22 mm +0.3/+0.1 mm

Terminals

Soldering/plug-in terminals 2.8 x 0.5 mm
Screw terminal

Tightening torque

5 Nm min. – 12 Nm max. for fixing nut

Actuating force

4 ... 7 N

Actuating travel

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 max. 260 °C, 3 sek.

Electrical characteristics
Rated Operational Voltage U_e

250 VAC

Rated Insulation Voltage U_i

250 V

Illumination

LED red, green, blue, yellow and white

LED and series resistor with polarity protection are built in.

| LED-Voltage | Tolerance | Current | Consumption |
|-------------|-----------|---------|-------------|
| 6 VAC/DC | ±10 % | 15 mA | 0.1 W |
| 12 VAC/DC | ±10 % | 14 mA | 0.17 W |
| 24 VAC/DC | ±10 % | 10 mA | 0.24 W |
| 110 VAC | ±10 % | 2 mA | 0.22 W |
| 230 VAC | ±10 % | 1.3 mA | 0.29 W |

Contact resistance

<50 mΩ

Electrical life

50 000 cycles of operation (full load)

Switch rating IEC 60947-5-1 (Silver contacts)

Switch rating AC cosφ 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 (Silver contacts)

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

Switch rating UL 508 (Silver contacts)

Switch rating AC cosφ 0.75 ... 0.8)

| Voltage | Current |
|---------|---------|
| 120 VAC | 5 A |
| 240 VAC | 3 A |

Switch rating DC

| Voltage | Current |
|---------|---------|
| 24 VDC | 1 A |

Recommended minimum operational data

according to DIN EN 60947-5-4

| | Silver contacts | Silver contacts gold-plated |
|---------|-----------------|-----------------------------|
| Voltage | 17 VAC/DC | 1 VAC/DC |
| Current | 50 mA | 5 mA |

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

1500 VAC, 50 Hz 1 min. between life terminals and ground

Isolation resistance

500 VDC at min. 10 MΩ 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 10, 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

Vibration resistance

10 ... 500 Hz, amplitude 1.5 mm p-p according to IEC 60068-2-6

Climate resistance

Damp heat, 21 days according to IEC 60512-11

Stainless steel and aluminium versions:

Saline mist, 96 hours according to IEC 60512-11

Brass versions:

Saline mist, 24 hours according to IEC 60512-11

Approvals

Approbations

CB

UL

C UL

CCC

Declaration of conformity

CE

EAO reserves the right to alter specifications without further notice.

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