

EAO – Your Expert Partner for Human Machine Interfaces

82-5151.1000.B001 Pushbutton 19mm stainless-steel

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Configuration number : 82-10-000551

Mounting

Mounting cut-out Ø 19 mm
Design flush

Front

Front dimension Ø 22 mm
Front shape round
Front ring shape flush
Front bezel material Stainless steel

Other Attributes

Weight 0.018 kg

Operating-/Indication part

Lens optics opaque
Lens material Stainless steel
Lens colour Stainless steel
Lens profile flat ISO 71 On/Off symbol
Lens illumination non-illuminative

IP-Rating

Front protection IP 65, IP 67, 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 0.7A@24VDC, 0.5A@220VAC

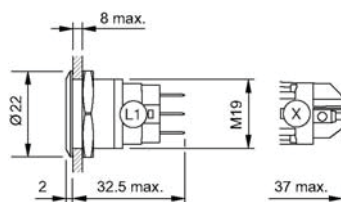
Function

Pushbutton

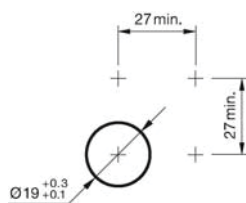
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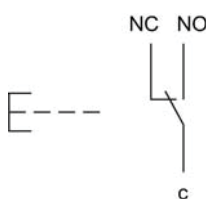
Dimensions



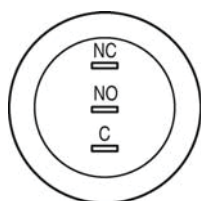
Mounting cut-outs



Wiring diagram



Component layout



Legend

Switching action: B = Momentary

Contacts: C = Changeover

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_o**

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 |
| 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 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

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

Switch rating UL 508

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 |

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 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 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

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