EAO – Your Expert Partner for **Human Machine Interfaces**

82-5151.2000.B001 Pushbutton 19mm stainless-steel

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Configuration number: 82-10-001672

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

flat ISO 71 On/Off symbol Lens profile

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 Maintained (latching)

Switching element

Switching current 5 A Contact material Silver Contacts 1 C

Switching system Snap-action switching element

Switching voltage 250 V AC

0.7A@24VDC, 0.5A@220VAC Typical switch ratings

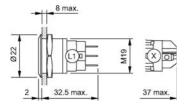
Function

Pushbutton

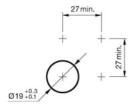
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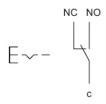
Dimensions



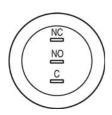
Mounting cut-outs



Wiring diagram



Component layout



Legend

Switching action: C = Maintained 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 500 000 cycles of operation Pushbutton maintain

Resistance to heat of soldering

Hand-soldering 260 °C, 3 sek.

Electrical characteristics

Rated Operational Voltage U

250 VAC

Rated Insulation Voltage U

250 V

Illumination

LED red, green, blue, yellow, orange and white

LED and series resistor with polarity protection are built in.

Volta	ge	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 mO

Electrical life

100 000 cycles of operation

Switch rating IEC 60947-5-1

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

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

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

Voltage Current 120 VAC 5 A 240 VAC 3 A

Switch rating DC

Current Voltage 24 VDC 1 A

Conventional free air thermal current I,

The maximum current in continuous operation and at ambient temperature must not exeed 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 Ω 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