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

82-6161.1000 - Pushbutton 22 mm stainless-steel

82-6161.1000 - Pushbutton 22 mm stainless-steel



Configuration number: 82-10-000241

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 0.018 kg

Operating-/Indication part

Lens opticsopaqueLens materialStainless steelLens colourStainless steelLens profileraised, flat lensLens illuminationnon-illuminative

IP-Rating

Front protection IP65, 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 0.7A@24VDC, 0.5A@220VAC

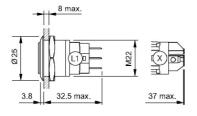
Function

Pushbutton

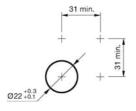
EAO – Your Expert Partner for Human Machine Interfaces

82-6161.1000 - Pushbutton 22 mm stainless-steel

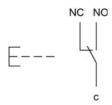
Dimensions



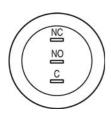
Mounting cut-outs



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 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.

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

 $<50 \text{ m}\Omega$

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

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

СВ

UL

CCC

Declaration of conformity