EAO – Your Expert Partner for Human Machine Interfaces

82-5171.1000 - Pushbutton 19 mm stainless-steel

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Configuration number : 82-10-000100

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 domed lens non-illuminative

IP65, IP67, IK10

Solder, plugn-in 28mm x 0.5mm

Momentary

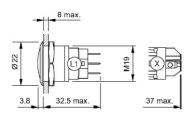
5 A Silver 1 C Snap-action switching element 250 V AC 0.7A@24VDC, 0.5A@220VAC



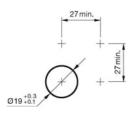
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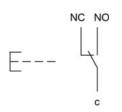
Dimensions



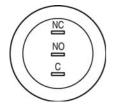
Mounting cut-outs



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 ... 6 N

3... 6 N

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

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 $\cos\phi$ 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

10.10.90		0 dill of ite
24	VDC	0.7 A
110	VDC	0.2 A
220	VDC	0.1 A

Switch rating UL 508

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

Switch rating DCVoltageCurrent24VDC1 A

Conventional free air thermal current $\mathbf{I}_{\rm th}$

5 A 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 $M\Omega$ 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