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

82-4152.1000 - Pushbutton 16 mm stainless-steel

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Configuration number: 82-10-000203

Mounting

Mounting cut-out Ø 16 mm
Design flush mount

Front

Front shape round
Front ring shape flush
Front dimension Ø 18 mm
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 lens
Lens illumination

Lens illumination non-illuminated

IP-Rating

Front protection IP65, IP67, IK10

Connection Method

Terminal Screw terminal

Actuator

Switching action Momentary

Switching element

Switching current 5 A Max Thermal Ith2

Contact material Silver Contacts 1 C

Switching system Snap-action switching element

Switching voltage 250 V AC

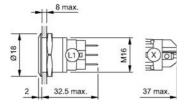
Typical switch rating 0.7A@24VDC, 0.5A@220VAC

Function Pushbutton

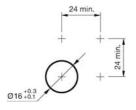
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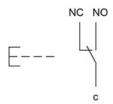
Dimensions



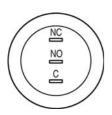
Mounting cut-outs



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 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 cosφ 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