## EAO - Your Expert Partner for Human Machine Interfaces

## 82-4152.1000 - Pushbutton 16 mm stainless-steel

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## Mounting

Mounting cut-out
Design

## Front

| Front shape | round |
| :--- | :--- |
| Front ring shape | flush |
| Front dimension | $\varnothing 18 \mathrm{~mm}$ |
| Front bezel material | Stainless steel |

Other Attributes
Weight
0.018 kg

## Operating-/Indication part

Lens optics
Lens material
Lens colour
Lens profile
Lens illumination

IP-Rating
Front protection

## Connection Method

Terminal
Screw terminal

## Actuator

Switching action
Momentary

## Switching element

Switching current 5 A Max Thermal Ith2
Contact material
Contacts
Switching system
Switching voltage
Typical switch rating
Silver
1 C
Snap-action switching element
250 V AC
0.7A@24VDC, 0.5A@220VAC

## Function

Pushbutton

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## 82-4152.1000 - Pushbutton 16 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
$\varnothing 19 \mathrm{~mm}+0.3 /+0.1 \mathrm{~mm}$

## Terminals

Soldering terminals $2.8 \times 0.5 \mathrm{~mm}$

## Tightening torque

5 Nm min. -12 Nm max. for fixing nut

## Actuating force

$3 . . .6 \mathrm{~N}$

## Actuating travel

Pushbutton momentary $\quad 2.5 \mathrm{~mm}$
Pushbutton maintain 3 mm

## Mechanical lifetime

Pushbutton momentary Pushbutton maintain

1 Mio. cycles of operation 500000 cycles of operation

## Contact resistance

$<50 \mathrm{~m} \Omega$

## Electrical life

100000 cycles of operation

## Switch rating IEC 60947-5-1

Switch rating AC $\cos \varphi 0.3$ 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 $\cos \varphi 0.75 \ldots 0.8)$
Voltage
Current
120 VAC 5 A
240 VAC
3 A

Switch rating DC
Voltage
Current
24 VDC 1 A

## Conventional free air thermal current $\mathrm{I}_{\mathrm{th}}$

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. $10 \mathrm{M} \Omega$ according to IEC 60512-2

Environmental conditions

## Storage temperature

$-40^{\circ} \mathrm{C} \ldots+80^{\circ} \mathrm{C}$

Operating temperature
$-30^{\circ} \mathrm{C} \ldots+70^{\circ} \mathrm{C}$

Front protection
IP 65 and IP 67, as per IEC 60529
Impact resistance
IK 09, as per IEC 62262

## Shock resistance

max. $500 \mathrm{~m} / \mathrm{s} 2$ according to IEC 60068-2-27

## Degree of pollution

2, as per EN IEC 60947-1

Pushbutton

## Vibration resistance

$10 \ldots 55 \mathrm{~Hz}$, 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

