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

82-4151.1134 - Illuminated pushbutton 16 mm stainless-steel, momentary

82-4151.1134 - Illuminated pushbutton 16 mm stainless-steel, momentary, 24V Green LED



Configuration number: 82-10-000035

Mounting

 $\begin{array}{ll} \text{Design} & \text{flush} \\ \text{Mounting cut-out} & \varnothing \text{ 16 mm} \end{array}$

Front

Front shape round
Front ring shape flush
Front dimension Ø 18 mm
Front bezel material Stainless steel

Other Attributes

LED Operating voltage 24 V AC/DC Weight 0.018 kg Operation current 10 mA

Operating-/Indication part

Lens optics opaque
Lens material Stainless steel

Lens profile flat

Lens illumination ring illumination
Lens colour Stainless steel

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 1A@24VDC, 0.5A@ 220VA

Illumination

Illumination Ring with green LED

Function

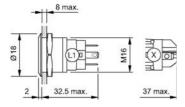
Illuminated pushbutton



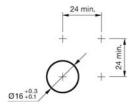
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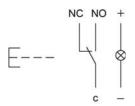
Dimensions



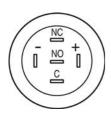
Mounting cut-outs



Wiring diagram



Component layout



Legend

Switching action: B = Momentary Contacts: C = Changeover

Indicator, Pushbutton, Illuminated pushbutton

Switching system

Snap-action changeover contact normally closed / normally open. Switching function momentary or maintain.

Material

Housing

Stainless-steel Stainless-steel chrome-coloured Brass gold-coloured Aluminium natural anodized

Terminal housing

Polyamide 66 (PA66)

Contact material

Silver alloy

Silver contacts gold-plated

Mechanical characteristics

Mounting cut-out

Ø 16 mm +0.3/+0.1 mm Ø 19 mm +0.3/+0.1 mm Ø 22 mm +0.3/+0.1 mm

Terminals

Soldering/plug-in terminals 2.8 x 0.5 mm Screw terminal

Tightening torque

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

Actuating force

4 ... 7 N

Actuating travel

3 mm

Mechanical lifetime

Pushbutton momentary
Pushbutton maintain

1 Mio. cycles of operation
500 000 cycles of operation

Resistance to heat of soldering

Hand-soldering max. 260 °C, 3 sek.

Electrical characteristics

Rated Operational Voltage U

250 VAC

Rated Insulation Voltage U

250 V

Illumination

LED red, green, blue, yellow and white

LED and series resistor with polarity protection are built in.

LED-Voltage	Tolerance	Current	Consumption
6 VAC/DC	±10%	15 mA	0.1 W
12 VAC/DC	±10%	14 mA	0.17W
24 VAC/DC	±10%	10 mA	0.24W
110 VAC	±10%	2 mA	0.22W
230 VAC	+10%	1.3 mA	0.29W

Contact resistance

<50 m Ω

Electrical life

50 000 cycles of operation (full load)

Switch rating IEC 60947-5-1 (Silver contacts)

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

Switch rating DC service categorie DC-13 (Silver contacts)

Voltage		Current
24	VDC	0.7 A
110	VDC	0.2 A
220	VDC	0.1 A

Switch rating UL 508 (Silver contacts)

Switch rating AC cos ϕ 0.75 ... 0.8) Voltage Current 120 VAC 5 A 240 VAC 3 A

Switch rating DC

Voltage Current 24 VDC 1 A

Recommended minimum operational data

according to DIN EN 60947-5-4

Silver contacts Silver contacts gold-plated Voltage 17 VAC/DC 1 VAC/DC

Current 50 mA 5 mA

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

5 A

The maximum current in continuous operation and at ambient temperature must not exeed the quoted maximum values.

Electrical strength

1500 VAC, 50 Hz 1 min. between life terminals and ground

Isolation resistance

500 VDC at min. 10 $M\Omega$ according to IEC 60512-2

82 Technical data

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 10, 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

Vibration resistance

10 ... 500 Hz, amplitude 1.5 mm p-p according to IEC 60068-2-6

EAO reserves the right to alter specifications without further notice.

Climate resistance

Damp heat, 21 days according to IEC 60512-11

Stainless steel and alumimium versions: Saline mist, 96 hours according to IEC 60512-11

Brass versions:

Saline mist, 24 hours according to IEC 60512-11

Approvals

Approbations

CB UL C UL CCC

Declaration of conformity

CE