Your Expert Partner for **Human Machine Interfaces**

# Illuminated push button Ø 16 mm silver contact

82-4151.2123

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Your product:

# 82-4151.2123
# Illuminated push button Ø 16 mm silver contact

## FRONT

| | |
|---|---|
| **Front dimension:** | Ø 18 mm |
| **Front form:** | Round |
| **Front bezel material:** | Stainless steel |
| **Front bezel shape:** | Flush |

## MOUNTING

| | |
|---|---|
| **Mounting cut-out:** | Ø 16 mm |
| **Mounting type:** | Panel mounting |

## OPERATING-/INDICATION PART

| | |
|---|---|
| **Lens colour:** | Silver |
| **Lens material:** | Stainless steel |
| **Lens illumination:** | Illuminated |
| **Lens shape:** | Flush |
| **Lens optics:** | opaque |
| **Illumination colour:** | Blue |
| **Shape of illumination:** | Ring |

## ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

according to IEC 60947-5-1 (Silver contacts)
Service categorie AC-15

| Voltage | Current |
|---|---|
| 24 VAC | 1 A |
| 35 VAC | 1 A (M12 version) |
| 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 |
| 35 VDC | 0.5 A (M12 version) |
| 110 VDC | 0.2 A |
| 220 VDC | 0.1 A |

according to UL 508 (Silver contacts)
cosφ 0,75 … 0,8

| Voltage | Current |
|---|---|
| 120 VAC | 5 A |
| 240 VAC | 3 A |
| 24 VAC | 1 A |

**Contacts:** 1 C

**Operating voltage:** 12 V AC/DC

**Operation current:** 7 mA

**Rated Operational Voltage Ue:** 250 VAC

**Rated insulation voltage Ui:** 250 V

**Short circuit protective device:** fuse / 500 V / 5 A / gG

**Rated short-circuit current caused:** AC: 1 kA
DC: 1 kA

**Switching rating:** 240 V

**Electrical lifetime:** 50 000 cycles of operation

**Electric strength:** 1500 VAC, 50 Hz 1 minute between life terminals and ground

**Pollution degree:** 2, according to EN IEC 60947-1

**Thermal current Ith:** 5 A

## MECHANICAL CHARACTERISTICS

**Terminal:** Soldering terminal, 2.8 x 0.5 mm

**Contact material:** Silver

**Switching action:** Maintained

**Switching system:** Snap-action switching element

**Mechanical lifetime:** 500 000 cycles of operation

**Operating force:** 4 N … 7 N

**Operating Travel:** ca. 3 mm

| | |
|---|---|
| **Tightening torque:** | 0.5 … 0.6 Nm |
| **Weight:** | 0.018 kg |

## AMBIENT CONDITION

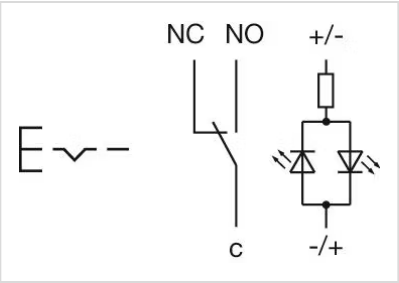
| | |
|---|---|
| **IP front protection:** | IP65, IP67 |
| **Operating temperature:** | – 30 °C … + 70 °C |
| **Storage temperature:** | – 40 °C … + 80 °C |
| **Shock resistance:** | Max. 500 m / $s^2$ as per IEC 60068-2-27 |
| **Vibration resistance:** | 10 … 500 Hz, amplitude 1.5 mm p-p according to IEC 60068-2-6 |
| **Climate resistance:** | Damp heat, 21 days according to IEC 60512-11 |

## CERTIFICATE

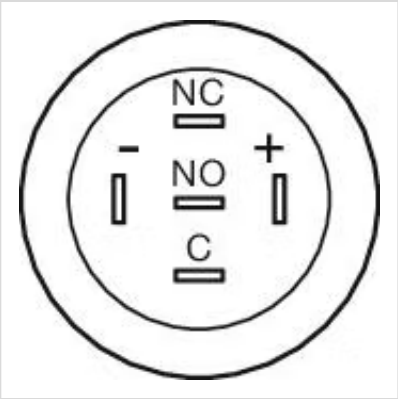
| | |
|---|---|
| **Approbations:** | CB, CCC, C UL, UL |
| **Conformities:** | CE, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD) |
| **REACH:** | REACH compliant |
| **RoHS:** | RoHS compliant |

## OTHER

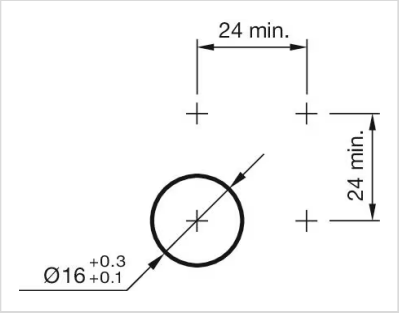
| | |
|---|---|
| **Short Description:** | Illuminated push button Ø 16 mm silver contact, Maintained, 240 V, 12 V AC/DC, 1 C, Soldering terminal, 2.8 x 0.5 mm, Round, Stainless steel, Blue, Silver |
| **Kind of illlumination:** | Single-LED |
| **Housing size:** | 16 mm |
| **Wiring diagrams:** | |



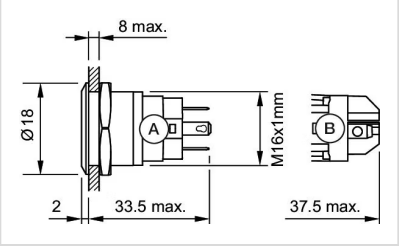

**Component layouts:**




**Mounting cut-outs:**




**Dimension drawings:**




A = Solder terminal
B = Screw terminal