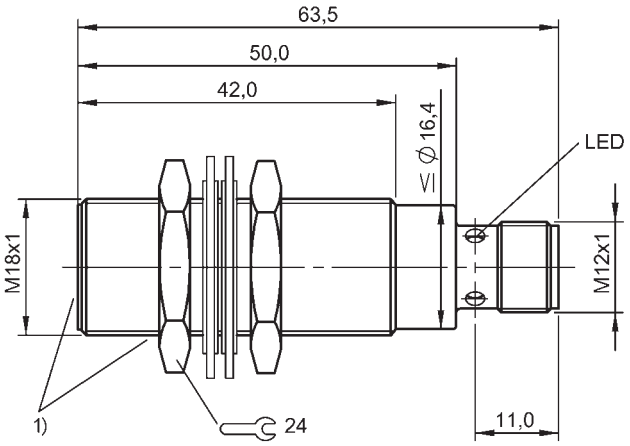
Inductive sensor

**BES M18EG1-PSC10Z-S04G-S11**
**BES02Y3**




1) Area of pressure resistance

- **PNP**
- **Normally open (NO)**
- **10.00 mm**
- **Quasi embeddable**
- **Connector, M12x1-S04**

IND. CONT. EQ. 11RZ
for use in the secondary of a class 2 source of supply

**General attributes**

| | |
|---|---|
| Approvals / Conformity | CE<br>cULus<br>EAC |
| Basic standard | IEC 60947-5-2 |
| Enclosure Type per IEC 60529 | IP67 |
| Function indicator | Yes |
| Operating distance marking | ■■ |
| Polarity reversal protected | Yes |
| Power indicator | No |
| Short circuit protected | Yes |
| Trademark | SteelFace |
| MTTF (40°C) | 375 a |

**Electrical attributes**

| | |
|---|---|
| Connection type | Connector |
| Eff. operating current Ie | 200 mA |
| Eff. operating voltage Ue DC | 24.0 V |
| Electrical version | DC, direct current |
| Load capacitance max. (at Ue) | 1.000 µF |
| Max. no-load cur. Io undamped | 9.0 mA |
| Minimum operating current Im | 0 mA |
| No-load current Io damped max. | 16.0 mA |
| Operating voltage UB max. DC [V] | 30.0 V |
| Operating voltage UB min. DC [V] | 10.0 V |
| Rated insulation voltage Ui | 75 VDC |
| Rated short circuit current | 100 A |
| Ripple max. (% of Ue) | 15 % |
| Switching freq. f max. (at Ue) | 200 Hz |
| Switching function | Normally open (NO) |
| Switching output | PNP |
| Voltage drop static max. | 2.0 V |

**Mechanical attributes**

| | |
|---|---|
| Ambient temperature Ta max. | 70 °C |
| Ambient temperature Ta min. | -25 °C |
| Assured operating distance Sa | 8.10 mm |
| Connector type | M12x1-S04 |
| Depth | 63.5 mm |
| Diameter d1 | M18x1 |
| Eff. operating distance Sr | 10.00 mm |
| Housing material | Stainless steel |
| Mech. installation condition | Quasi embeddable |
| Mounting length | 42.0 mm |
| Pressure resistance | pressure-rated up to 60 bar |
| Rated operating distance Sn [mm] | 10.00 mm |
| Sensing face material | Stainless steel |
| Tightening torque | 50 Nm ±10 % |

**Remarks**
The sensor is functional again after the overload has been eliminated.
When installing in metals the switching distance may be reduced by upto 50 %. See Installation Instruction 841020.
Installation permitted only in clamp with no positive stop.
LED flashes between 100 % and approx. 70 % of Sr

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

