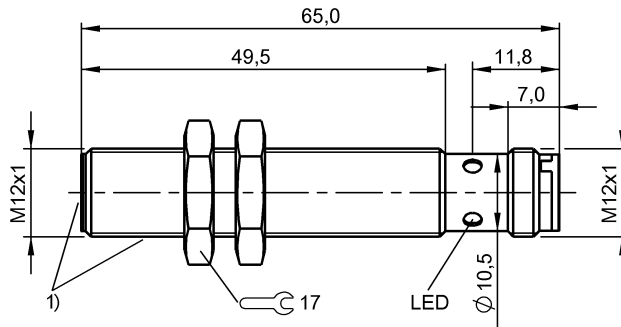


BES M12EI-PSC40B-S04G-S BES02NA



1) Pressure resistant area



IND. CONT. EQ
81U2
for use in the secondary of
a class 2 source of supply
Environmental - Type 1 Enclosure



Display/Operation

| | |
|--------------------|-----|
| Function indicator | yes |
| Power indicator | no |

Electrical connection

| | |
|-----------------------------|----------------------------------|
| Connection | M12x1-Connector, 4-pole, A-coded |
| Polarity reversal protected | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|---|---------------|
| Hysteresis H max. (% of Sr) | 15.0 % |
| Load capacitance max. at Ue | 1 µF |
| MTTF (40 °C) | 330 a |
| No-load current I _o max., undamped | 10 mA |
| Operating voltage U _b | 10...30 VDC |
| Output resistance R _a | 33.0 kOhm + D |
| Pollution degree | 3 |
| Protected against miswiring | yes |
| Rated insulation voltage U _i | 75 V DC |
| Rated operating current I _e DC | 200 mA |
| Rated operating voltage U _e DC | 24 V |
| Rated short circuit current | 100 A |
| Ready delay t _v max. | 100 ms |
| Repeat accuracy max. (% of Sr) | 5.0 % |
| Residual current I _r max. | 10 µA |
| Switching frequency | 500 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 2.5 V |

Environmental conditions

| | |
|---------------------------|-------------|
| Ambient temperature | -25...70 °C |
| Protection type IEC 60529 | IP67 |

Functional safety

| | |
|---------------------|------|
| Diagnostic coverage | 0 % |
| Functional safety | no |
| Mission Time | 20 a |

General data

| | |
|---------------------|--------------------|
| Approval/Conformity | cULus CE EAC |
| Basic standard | IEC 60947-5-2 |

Material

| | |
|--------------------------|-----------------|
| Housing material | Stainless steel |
| Material sensing surface | Stainless steel |

Mechanical data

| | |
|-----------------------|--------------------|
| Dimension | Ø 12 x 65 mm |
| Installation | for flush mounting |
| Pressure rating max. | 60 bar |
| Pressure rating, note | Pressure-resistant |
| Size | M12x1 |
| Tightening torque | 20 Nm ±10 % |

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Output/Interface

Switching output PNP Normally open (NO)

Range/Distance

| | |
|-------------------------------|--------|
| Assured operating distance Sa | 3.2 mm |
| Range | 4 mm |
| Rated operating distance Sn | 4 mm |
| Ripple max. (% of Ue) | 10 % |

| | |
|----------------------------------|------|
| Switching distance marking | ■ ■ |
| Temperature drift max. (% of Sr) | 10 % |

Remarks

The sensor is functional again after the overload has been eliminated.
When installing in metal see Installation Instructions 857785.

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.

Connector view



Wiring Diagram

