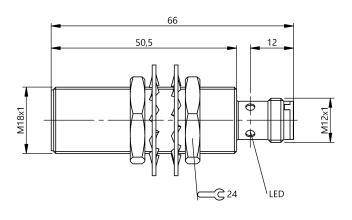
Inductive Sensors BES M18MI-PSC80A-S04G-W10 Order Code: BES05PP





Basic features

| Additional features | Factor 1 Extended temperature range |
|---------------------|--|
| | Housing resistant to weld spatter |
| Approval/Conformity | CE |
| | UKCA |
| | cULus |
| | WEEE |
| Basic standard | IEC 60947-5-2 |
| Scope of delivery | 2x nut M18x1 |
| Trademark | Factor 1 |
| | |

yes

no

Display/Operation

Function indicator Power indicator

Electrical connection

| Connection | M12x1-Male, 3-pin, A-coded |
|-----------------------------------|----------------------------|
| Electrical version | 3-wire |
| Polarity reversal protected | yes |
| Protection against device mix-ups | yes |
| Short-circuit protection | yes |

Electrical data

| Load capacitance max. at Ue | 1 μF |
|---|---------------------------------------|
| Magnetic field strength, interference field | 100 kA/m |
| Min. operating current Im | 0 mA |
| No-load current Io max., damped | 30 mA |
| No-load current lo max., undamped | 25 mA |
| Operating voltage Ub | 1030 VDC |
| Output resistance Ra | 100.0 kOhm |
| Protection class | II |
| Rated operating current le | 200 mA |
| Rated operating voltage Ue DC | 24 V |
| Rated short circuit current | 100 A |
| Ready delay tv max. | 50 ms |
| Ripple max. (% of Ue) | 15% |
| Switching frequency | 2000 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 2 V |
| | |
| Environmental conditions | |
| Ambient temperature | -4085 °C |
| Contamination scale | 3 |
| EN 60068-2-27, Shock | Half-sinus, 30 g _n , 11 ms |
| EN 60068-2-6, Vibration | 55 Hz, amplitude 1 mm, 3x30 min |
| IP rating | IP67, IP68, according to BWN Pr 20 |
| Magnetic field immune | magnetic field immune (AC/DC) |
| Functional safety | |

MTTF (40 °C)

240 a

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6.4 mm

15.0 %

8 mm

8 mm

5.0 %

10 % 10 %

| Interface | | Range/Distance |
|--------------------------|------------------------|--|
| Switching output | PNP normally open (NO) | Assured operating distance Sa Hysteresis H max. (% of Sr) |
| Material | | Rated operating distance Sn |
| Housing material | Brass, PTFE coated | Real switching distance sr |
| Material sensing surface | PBT | Repeat accuracy max. (% of Sr) Switching distance marking |
| Mechanical data | | Temperature drift max. (% of Sr) Tolerance Sr |
| Dimension | Ø 18 x 66 mm | |
| Installation | for flush mounting | |
| Mounting length | 50 mm | |
| | | |
| Size | M18x1 | |

Remarks

The sensor is functional again after the overload has been eliminated. For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings

3(•••)1

Wiring Diagrams (Schematic)

