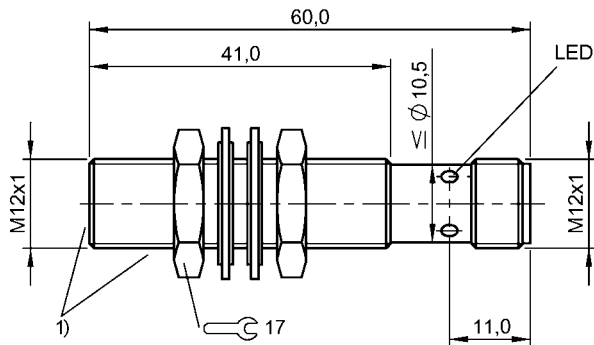




1) Pressure resistant area



#### Basic features

|                     |                     |
|---------------------|---------------------|
| Approval/Conformity | CE<br>cULus<br>WEEE |
| Basic standard      | IEC 60947-5-2       |

#### Display/Operation

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

#### Electrical connection

|                                   |                            |
|-----------------------------------|----------------------------|
| Connection                        | M12x1-Male, 4-pin, A-coded |
| Polarity reversal protected       | yes                        |
| Protection against device mix-ups | yes                        |
| Short-circuit protection          | yes                        |

#### Electrical data

|                                   |             |
|-----------------------------------|-------------|
| Load capacitance max. at Ue       | 1 µF        |
| Min. operating current Im         | 0 mA        |
| No-load current Io max., damped   | 16 mA       |
| No-load current Io max., undamped | 9 mA        |
| Operating voltage Ub              | 10...30 VDC |
| Output resistance Ra              | 47.0 kOhm   |
| Rated insulation voltage Ui       | 75 V DC     |
| Rated operating current Ie        | 200 mA      |
| Rated operating voltage Ue DC     | 24 V        |
| Rated short circuit current       | 100 A       |
| Ready delay tv max.               | 60 ms       |
| Residual current Ir max.          | 100 µA      |
| Ripple max. (% of Ue)             | 15 %        |
| Switching frequency               | 400 Hz      |
| Utilization category              | DC -13      |
| Voltage drop static max.          | 2 V         |

#### Environmental conditions

|                         |                                 |
|-------------------------|---------------------------------|
| Ambient temperature     | -25...70 °C                     |
| Contamination scale     | 3                               |
| EN 60068-2-27, Shock    | Half-sinus, 30 gn, 11 ms        |
| EN 60068-2-6, Vibration | 55 Hz, amplitude 1 mm, 3x30 min |
| IP rating               | IP67                            |

#### Functional safety

|              |       |
|--------------|-------|
| MTTF (40 °C) | 335 a |
|--------------|-------|

Inductive Sensors  
BES M12EG1-PSC60Z-S04G-S11  
Order Code: BES02WH



Interface

Switching output PNP normally open (NO)

Material

Housing material Stainless steel

Material sensing surface Stainless steel

Mechanical data

Dimension Ø 12 x 60 mm

Installation quasi-flush

Mounting length 41.00 mm

Pressure rating max. 80 bar

Pressure rating, note Pressure-resistant

Size M12x1

Tightening torque 10 Nm ±10 %

Range/Distance

Assured operating distance Sa 4.9 mm

Hysteresis H max. (% of Sr) 15.0 %

Rated operating distance Sn 6 mm

Real switching distance sr 6 mm

Repeat accuracy max. (% of Sr) 5.0 %

Switching distance marking ■■■

Temperature drift max. (% of Sr) 10 %

Tolerance Sr ±10 %

Remarks

The sensor is functional again after the overload has been eliminated.

When installing in metals the switching distance may be reduced by up to 50%. Installation Instructions 841020.

Installation permitted only in clamp without positive stop.

LED flashes between 100% and approx. 70% of Sr

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



Wiring Diagrams

