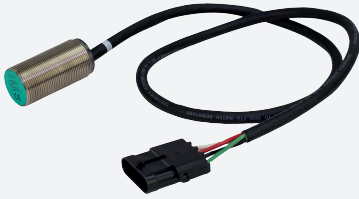


## Inductive sensor

### NBB10-30GM60-AAR-900MM-4PKD

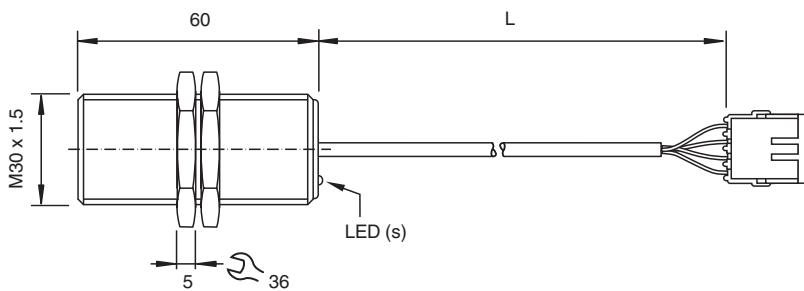


- SPDT Relay Output
- Sensing range 10 mm
- Active 24 V DC Relay Output

Inductive sensor



## Dimensions



## Technical Data

| General specifications      |       |                                                                                 |
|-----------------------------|-------|---------------------------------------------------------------------------------|
| Switching function          |       | change-over contact                                                             |
| Output type                 |       | relay                                                                           |
| Rated operating distance    | $S_n$ | 10 mm                                                                           |
| Installation                |       | flush                                                                           |
| Output polarity             |       | DC                                                                              |
| Reduction factor $r_{AI}$   |       | 0.4                                                                             |
| Reduction factor $r_{Cu}$   |       | 0.3                                                                             |
| Reduction factor $r_{304}$  |       | 0.85                                                                            |
| Output type                 |       | Relay output                                                                    |
| Mechanical life             |       | No load: $2 \times 10^7$ operations Full load: $1 \times 10^5$ switching cycles |
| Nominal ratings             |       |                                                                                 |
| Operating voltage           | $U_B$ | 10 ... 30 V DC                                                                  |
| Switching frequency         | $f$   | 20 Hz                                                                           |
| Hysteresis                  | $H$   | approx. 10 %                                                                    |
| Reverse polarity protection |       | yes                                                                             |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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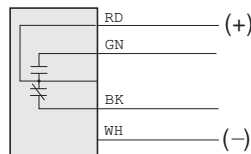
 **PEPPERL+FUCHS**

### Technical Data

|                                                 |       |                                                                         |
|-------------------------------------------------|-------|-------------------------------------------------------------------------|
| Short-circuit protection                        |       | no                                                                      |
| Operating current                               | $I_L$ | $\leq 50 \text{ mA}$                                                    |
| Switching state indicator                       |       | LED, yellow                                                             |
| <b>Output</b>                                   |       |                                                                         |
| Switching voltage                               |       | max 28 V DC                                                             |
| Switching current                               |       | max 6 A DC resistive load                                               |
| Switching power                                 |       | max 180 W                                                               |
| <b>Compliance with standards and directives</b> |       |                                                                         |
| Standard conformity                             |       |                                                                         |
| Standards                                       |       | EN IEC 60947-5-2                                                        |
| <b>Ambient conditions</b>                       |       |                                                                         |
| Ambient temperature                             |       | -40 ... 70 °C (-40 ... 158 °F)                                          |
| <b>Mechanical specifications</b>                |       |                                                                         |
| Connection type                                 |       | fixed cable with plug                                                   |
| Core cross section                              |       | 0.75 mm <sup>2</sup>                                                    |
| Housing material                                |       | brass, nickel-plated                                                    |
| Sensing face                                    |       | PBT                                                                     |
| Degree of protection                            |       | IP67 (Sensor side)                                                      |
| Connector                                       |       |                                                                         |
| Connection assembly                             |       | Aptiv housing 12010974<br>Aptiv contact 12089040<br>Aptiv seal 15324982 |
| Cable                                           |       |                                                                         |
| Material                                        |       | TPE                                                                     |
| Color                                           |       | black                                                                   |
| Number of cores                                 |       | 4                                                                       |
| Length                                          | L     | 900 mm                                                                  |
| <b>Dimensions</b>                               |       |                                                                         |
| Length                                          |       | 60 mm                                                                   |
| Diameter                                        |       | 30 mm                                                                   |
| Mounting                                        |       | with nuts, M30                                                          |
| <b>General information</b>                      |       |                                                                         |
| Scope of delivery                               |       |                                                                         |

### Connection

#### AAR



### Installation

|   |             |
|---|-------------|
| A | GN (Output) |
| B | BK (Output) |
| C | RD (+)      |
| D | WH (-)      |