

# Inductive sensor

## NBB10-30GM60-AAR-1,8M-4PKD

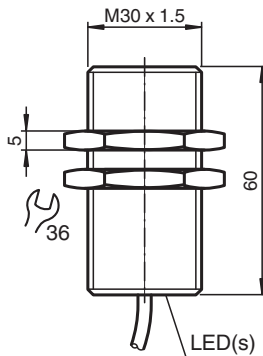


- SPDT Relay Output
- Sensing range 10 mm
- Active 24 V DC Relay Output

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 $r_{Al}$   |       | 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   |

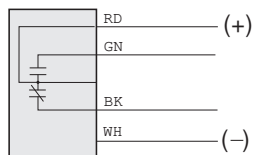
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## Technical Data

|   |       |   |
|---|-------|---|
| Short-circuit protection                        |       | no  |
| Operating current                               | $I_L$ | $\leq 50$ 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  |
| 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     | 1.8 m   |
| <b>Dimensions</b>                               |       |   |
| Length  |       | 60 mm   |
| Diameter  |       | 30 mm   |
| Mounting  |       | with nuts, M30  |

## Connection

### AAR



## Installation

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