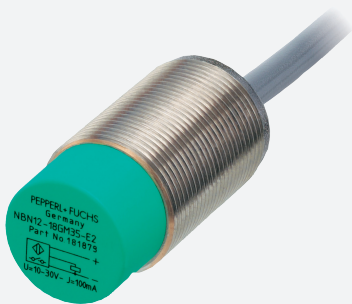


# Inductive sensor

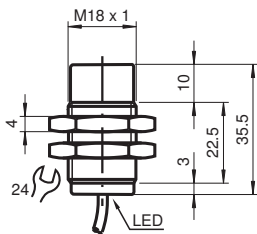
## NBN12-18GM35-E3-5M



- Basic series
- Increased operating distance



### Dimensions



### Technical Data

| General specifications            |                |                      |
|-----------------------------------|----------------|----------------------|
| Switching function                |                | Normally closed (NC) |
| Output type                       |                | PNP                  |
| Rated operating distance          | s <sub>n</sub> | 12 mm                |
| Installation                      |                | non-flush            |
| Output polarity                   |                | DC                   |
| Assured operating distance        | s <sub>a</sub> | 0 ... 9.72 mm        |
| Reduction factor r <sub>Al</sub>  |                | 0.35                 |
| Reduction factor r <sub>Cu</sub>  |                | 0.35                 |
| Reduction factor r <sub>304</sub> |                | 0.7                  |
| Nominal ratings                   |                |                      |
| Operating voltage                 | U <sub>B</sub> | 10 ... 30 V          |
| Switching frequency               | f              | 0 ... 300 Hz         |

## Technical Data

|                                                 |       |                                                                            |
|-------------------------------------------------|-------|----------------------------------------------------------------------------|
| Hysteresis                                      | H     | type 5 %                                                                   |
| Reverse polarity protection                     |       | reverse polarity protected                                                 |
| Short-circuit protection                        |       | pulsing                                                                    |
| Voltage drop                                    | $U_d$ | $\leq 2.5 \text{ V}$                                                       |
| Operating current                               | $I_L$ | 0 ... 100 mA                                                               |
| No-load supply current                          | $I_0$ | $\leq 12 \text{ mA}$                                                       |
| Switching state indicator                       |       | all direction LED, yellow                                                  |
| <b>Compliance with standards and directives</b> |       |                                                                            |
| Standard conformity                             |       |                                                                            |
| Standards                                       |       | EN 60947-5-2:2007<br>IEC 60947-5-2:2007                                    |
| <b>Approvals and certificates</b>               |       |                                                                            |
| UL approval                                     |       | cULus Listed, General Purpose                                              |
| CCC approval                                    |       | CCC approval / marking not required for products rated $\leq 36 \text{ V}$ |
| <b>Ambient conditions</b>                       |       |                                                                            |
| Ambient temperature                             |       | -25 ... 70 °C (-13 ... 158 °F)                                             |
| <b>Mechanical specifications</b>                |       |                                                                            |
| Connection type                                 |       | cablE PVC , 5 m                                                            |
| Core cross-section                              |       | 0.34 mm <sup>2</sup>                                                       |
| Housing material                                |       | brass, nickel-plated                                                       |
| Sensing face                                    |       | PBT                                                                        |
| Degree of protection                            |       | IP67                                                                       |

## Connection Assignment

