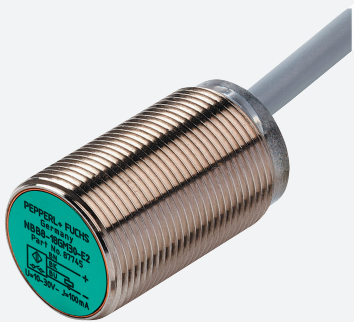




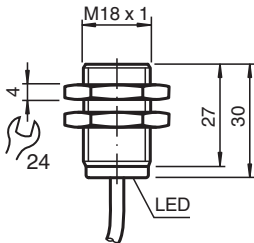
# Inductive sensor

## NBB8-18GM30-E2-Y278764

- Basic series
- 8 mm flush
- Increased operating distance



### Dimensions



### Technical Data

| General specifications            |                |                            |
|-----------------------------------|----------------|----------------------------|
| Rated operating distance          | s <sub>n</sub> | 8 mm                       |
| Installation                      |                | flush                      |
| Output polarity                   |                | DC                         |
| Assured operating distance        | s <sub>a</sub> | 0 ... 6.48 mm              |
| Reduction factor r <sub>Al</sub>  |                | 0.45                       |
| Reduction factor r <sub>Cu</sub>  |                | 0.4                        |
| Reduction factor r <sub>304</sub> |                | 0.7                        |
| Output type                       |                | 3-wire                     |
| Nominal ratings                   |                |                            |
| Operating voltage                 | U <sub>B</sub> | 10 ... 30 V                |
| Switching frequency               | f              | 0 ... 500 Hz               |
| Hysteresis                        | H              | typ. 5%                    |
| Reverse polarity protection       |                | reverse polarity protected |
| Short-circuit protection          |                | pulsing                    |
| Voltage drop                      | U <sub>d</sub> | ≤ 3 V                      |

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

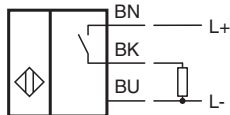
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## Technical Data

|                                                 |       |                                                                    |
|-------------------------------------------------|-------|--------------------------------------------------------------------|
| Operating current                               | $I_L$ | 0 ... 100 mA                                                       |
| Off-state current                               | $I_r$ | 0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C                             |
| No-load supply current                          | $I_0$ | $\leq$ 15 mA                                                       |
| Time delay before availability                  | $t_v$ | $\leq$ 20 ms                                                       |
| Switching state indicator                       |       | LED, yellow                                                        |
| <b>Functional safety related parameters</b>     |       |                                                                    |
| MTTF <sub>d</sub>                               |       | 2090 a                                                             |
| Mission Time (T <sub>M</sub> )                  |       | 20 a                                                               |
| Diagnostic Coverage (DC)                        |       | 0 %                                                                |
| <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                                      |
| CSA approval                                    |       | cCSAus Listed, General Purpose                                     |
| CCC approval                                    |       | CCC approval / marking not required for products rated $\leq$ 36 V |
| <b>Ambient conditions</b>                       |       |                                                                    |
| Ambient temperature                             |       | -25 ... 70 °C (-13 ... 158 °F)                                     |
| <b>Mechanical specifications</b>                |       |                                                                    |
| Connection type                                 |       | cablE PVC , 2 m                                                    |
| Core cross-section                              |       | 0.34 mm <sup>2</sup>                                               |
| Housing material                                |       | brass, nickel-plated<br>stainless steel nuts included              |
| Sensing face                                    |       | PBT                                                                |
| Degree of protection                            |       | IP67                                                               |

## Connection



## Accessories

|                                                                                     |               |                                       |
|-------------------------------------------------------------------------------------|---------------|---------------------------------------|
|  | <b>BF 18</b>  | Mounting flange, 18 mm                |
|  | <b>EXG-18</b> | Quick mounting bracket with dead stop |