

# Inductive sensor

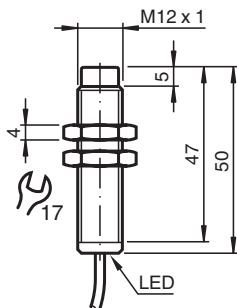
## NBN4-12GM50-E2-8M



■ 4 mm non-flush



### Dimensions



### Technical Data

| General specifications      |       |                            |
|-----------------------------|-------|----------------------------|
| Switching function          |       | Normally open (NO)         |
| Output type                 |       | PNP                        |
| Rated operating distance    | $s_n$ | 4 mm                       |
| Installation                |       | non-flush                  |
| Output polarity             |       | DC                         |
| Assured operating distance  | $s_a$ | 0 ... 3.24 mm              |
| Reduction factor $r_{Al}$   |       | 0.5                        |
| Reduction factor $r_{Cu}$   |       | 0.4                        |
| Reduction factor $r_{304}$  |       | 0.8                        |
| Nominal ratings             |       |                            |
| Operating voltage           | $U_B$ | 10 ... 30 V                |
| Switching frequency         | $f$   | 0 ... 1200 Hz              |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |
| Voltage drop                | $U_d$ | $\leq 3$ V                 |

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

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**PEPPERL+FUCHS**

## Technical Data

|                                                 |       |                                                                    |
|-------------------------------------------------|-------|--------------------------------------------------------------------|
| Operating current                               | $I_L$ | 0 ... 200 mA                                                       |
| Off-state current                               | $I_r$ | 0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C                             |
| No-load supply current                          | $I_0$ | $\leq$ 17 mA                                                       |
| Switching state indicator                       |       | LED, yellow                                                        |
| <b>Functional safety related parameters</b>     |       |                                                                    |
| MTTF <sub>d</sub>                               |       | 990 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 , 8 m                                                    |
| Core cross-section                              |       | 0.14 mm <sup>2</sup>                                               |
| Housing material                                |       | brass, nickel-plated                                               |
| Sensing face                                    |       | PBT                                                                |
| Degree of protection                            |       | IP67                                                               |
| <b>General information</b>                      |       |                                                                    |
| Scope of delivery                               |       | 2 self locking nuts in scope of delivery                           |

## Connection

