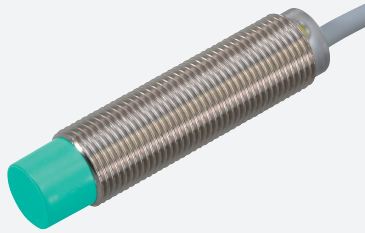


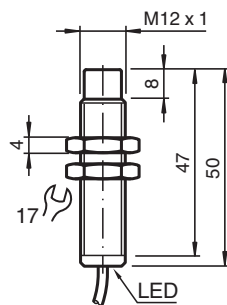
# Inductive sensor NXN8-12GM50-E2



■ 8 mm non-flush



## Dimensions



## Technical Data

| General specifications       |       |                    |
|------------------------------|-------|--------------------|
| Switching function           |       | Normally open (NO) |
| Output type                  |       | PNP                |
| Rated operating distance     | $s_n$ | 8 mm               |
| Installation                 |       | non-flush          |
| Output polarity              |       | DC                 |
| Assured operating distance   | $s_a$ | 0 ... 6.48 mm      |
| Reduction factor $r_{Al}$    |       | 0.39               |
| Reduction factor $r_{Cu}$    |       | 0.3                |
| Reduction factor $r_{304}$   |       | 0.7                |
| Reduction factor $r_{Brass}$ |       | 0.45               |
| Output type                  |       | 3-wire             |
| Nominal ratings              |       |                    |
| Operating voltage            | $U_B$ | 10 ... 30 V        |
| Switching frequency          | $f$   | 0 ... 450 Hz       |
| Hysteresis                   | $H$   | typ. 5%            |

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

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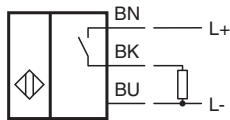
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 **PEPPERL+FUCHS**

Technical Data

|                                          |       |                                                                                             |
|------------------------------------------|-------|---------------------------------------------------------------------------------------------|
| Reverse polarity protection              |       | reverse polarity protected                                                                  |
| Short-circuit protection                 |       | pulsing                                                                                     |
| Voltage drop                             | $U_d$ | $\leq 3\text{ V}$                                                                           |
| Operating current                        | $I_L$ | 0 ... 100 mA                                                                                |
| No-load supply current                   | $I_0$ | $\leq 16\text{ mA}$                                                                         |
| Switching state indicator                |       | all direction LED, yellow                                                                   |
| Compliance with standards and directives |       |                                                                                             |
| Standard conformity                      |       |                                                                                             |
| Standards                                |       | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012 |
| Ambient conditions                       |       |                                                                                             |
| Ambient temperature                      |       | -25 ... 70 °C (-13 ... 158 °F)                                                              |
| Mechanical specifications                |       |                                                                                             |
| Connection type                          |       | cable PVC , 2 m                                                                             |
| Core cross-section                       |       | 0.14 mm <sup>2</sup>                                                                        |
| Housing material                         |       | brass, nickel-plated                                                                        |
| Sensing face                             |       | PBT                                                                                         |
| Degree of protection                     |       | IP67                                                                                        |
| General information                      |       |                                                                                             |
| Scope of delivery                        |       | 2 hex nuts included                                                                         |

Connection



Accessories

|  |              |                        |
|--|--------------|------------------------|
|  | <b>BF 12</b> | Mounting flange, 12 mm |
|--|--------------|------------------------|

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