

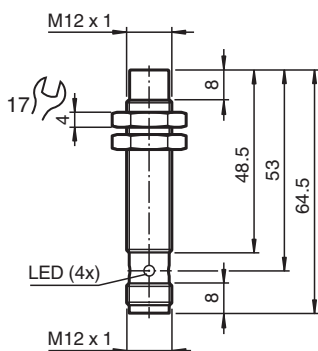


## Inductive sensor NXN8-12GM50-E2-V1

- 8 mm non-flush
- Flexible use with versatile mounting opportunities



### 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 |
| Actuating element            | mild steel, e. g. 1.0037, SR235JR (formerly St37-2)<br>24 mm x 24 mm x 1 mm |               |
| Reduction factor $r_{Al}$    |                                                                             | 0.4           |
| Reduction factor $r_{Cu}$    |                                                                             | 0.35          |
| Reduction factor $r_{304}$   |                                                                             | 0.79          |
| Reduction factor $r_{Brass}$ |                                                                             | 0.49          |
| Output type                  |                                                                             | 3-wire        |

#### Nominal ratings

|                             |       |                            |
|-----------------------------|-------|----------------------------|
| Operating voltage           | $U_B$ | 10 ... 30 V                |
| Switching frequency         | $f$   | 0 ... 450 Hz               |
| Hysteresis                  | $H$   | typ. 5 %                   |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |
| Voltage drop                | $U_d$ | $\leq 1$ V                 |

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

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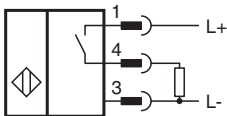
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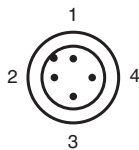
Technical Data

|                                                 |       |                                                                    |
|-------------------------------------------------|-------|--------------------------------------------------------------------|
| Operating current                               | $I_L$ | 0 ... 100 mA                                                       |
| Off-state current                               | $I_r$ | max. 20 $\mu$ A                                                    |
| No-load supply current                          | $I_0$ | $\leq$ 10 mA                                                       |
| Time delay before availability                  | $t_v$ | $\leq$ 10 ms                                                       |
| Switching state indicator                       |       | Multihole-LED, yellow                                              |
| <b>Compliance with standards and directives</b> |       |                                                                    |
| Standard conformity                             |       |                                                                    |
| Standards                                       |       | EN IEC 60947-5-2                                                   |
| <b>Approvals and certificates</b>               |       |                                                                    |
| UL approval                                     |       | cULus Listed, General Purpose, Class 2 Power Source                |
| 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                                 |       | Connector plug                                                     |
| Housing material                                |       | brass , white bronze coated                                        |
| Sensing face                                    |       | PBT , green                                                        |
| Degree of protection                            |       | IP67                                                               |
| Connector                                       |       |                                                                    |
| Threading                                       |       | M12 x 1                                                            |
| Number of pins                                  |       | 3                                                                  |
| Mass                                            |       | 28 g                                                               |
| Dimensions                                      |       |                                                                    |
| Length                                          |       | 64.5 mm                                                            |
| Diameter                                        |       | 12 mm                                                              |
| Mounting                                        |       | with nuts, M12                                                     |
| Tightening torque                               |       | 0 ... 10 Nm                                                        |
| <b>General information</b>                      |       |                                                                    |
| Scope of delivery                               |       | Supplied with 2 nuts                                               |

Connection



Connection Assignment



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Connection Assignment

Wire colors in accordance with EN 60947-5-2

|   |    |         |
|---|----|---------|
| 1 | BN | (brown) |
| 2 | WH | (white) |
| 3 | BU | (blue)  |
| 4 | BK | (black) |

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