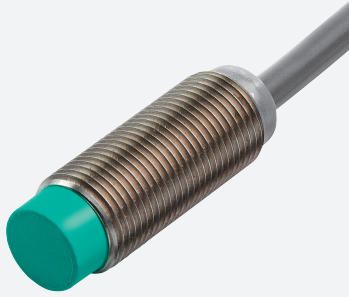


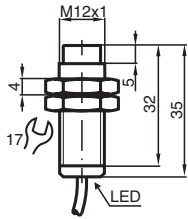
# Inductive sensor NCN8-12GM35-Z5



- 8 mm non-flush
- 2-wire DC
- Increased operating distance



## Dimensions



## Technical Data

| General specifications      |       |                             |
|-----------------------------|-------|-----------------------------|
| Switching function          |       | Normally closed (NC)        |
| Output type                 |       | Two-wire                    |
| Rated operating distance    | $s_n$ | 8 mm                        |
| Installation                |       | non-flush                   |
| Output polarity             |       | DC                          |
| Assured operating distance  | $s_a$ | 0 ... 6.48 mm               |
| Reduction factor $r_{AI}$   |       | 0.49                        |
| Reduction factor $r_{Cu}$   |       | 0.49                        |
| Reduction factor $r_{304}$  |       | 0.74                        |
| Output type                 |       | 2-wire                      |
| Nominal ratings             |       |                             |
| Operating voltage           | $U_B$ | 3.5 ... 30 V                |
| Switching frequency         | $f$   | 0 ... 750 Hz                |
| Reverse polarity protection |       | reverse polarity-conductive |
| Short-circuit protection    |       | pulsing                     |
| Voltage drop                | $U_d$ | $\leq 3.5$ V                |

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

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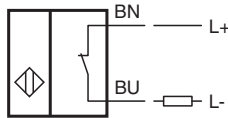
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**PEPPERL+FUCHS**

# Technical Data

|                                                 |                |                                                              |
|-------------------------------------------------|----------------|--------------------------------------------------------------|
| Temperature drift                               |                | ± 15%                                                        |
| Operating current                               | I <sub>L</sub> | 2 ... 100 mA                                                 |
| Off-state current                               | I <sub>r</sub> | 0.4 ... 0.6 mA typ. 0.5 mA                                   |
| Switching state indicator                       |                | 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                                |
| CCC approval                                    |                | CCC approval / marking not required for products rated ≤36 V |
| <b>Ambient conditions</b>                       |                |                                                              |
| Ambient temperature                             |                | -25 ... 70 °C (-13 ... 158 °F)                               |
| Storage temperature                             |                | -40 ... 85 °C (-40 ... 185 °F)                               |
| <b>Mechanical specifications</b>                |                |                                                              |
| Connection type                                 |                | cable                                                        |
| Housing material                                |                | brass, nickel-plated                                         |
| Sensing face                                    |                | PBT                                                          |
| Degree of protection                            |                | IP67                                                         |
| <b>Cable</b>                                    |                |                                                              |
| Cable diameter                                  |                | 3.7 mm + 0.2 mm                                              |
| Bending radius                                  |                | > 10 x cable diameter                                        |
| Material                                        |                | PVC                                                          |
| Color                                           |                | grey                                                         |
| Number of cores                                 |                | 2                                                            |
| Core cross section                              |                | 0.34 mm <sup>2</sup>                                         |
| Length                                          | L              | 2 m                                                          |
| <b>Dimensions</b>                               |                |                                                              |
| Length                                          |                | 35 mm                                                        |
| Diameter                                        |                | 12 mm                                                        |

# Connection



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