

# Inductive sensor

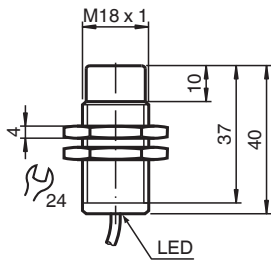
## NCN8-18GM40-Z0



- Comfort series
- 8 mm non-flush
- 2-wire DC



### Dimensions



### Technical Data

| General specifications            |                |                          |
|-----------------------------------|----------------|--------------------------|
| Switching function                |                | Normally open (NO)       |
| Output type                       |                | Two-wire                 |
| Rated operating distance          | s <sub>n</sub> | 8 mm                     |
| Installation                      |                | non-flush                |
| Output polarity                   |                | DC                       |
| Assured operating distance        | s <sub>a</sub> | 0 ... 6.5 mm             |
| Actual operating distance         | s <sub>r</sub> | 7.2 ... 8.8 mm typ. 8 mm |
| Reduction factor r <sub>Al</sub>  |                | 0.44                     |
| Reduction factor r <sub>Cu</sub>  |                | 0.4                      |
| Reduction factor r <sub>304</sub> |                | 0.7                      |
| Output type                       |                | 2-wire                   |
| Nominal ratings                   |                |                          |
| Operating voltage                 | U <sub>B</sub> | 5 ... 60 V               |
| Switching frequency               | f              | 0 ... 300 Hz             |
| Hysteresis                        | H              | 1 ... 10 typ. 5 %        |

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

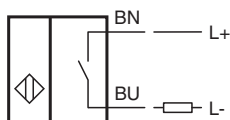
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## Technical Data

|                                                 |       |                                                                              |
|-------------------------------------------------|-------|------------------------------------------------------------------------------|
| Reverse polarity protection                     |       | reverse polarity tolerant                                                    |
| Short-circuit protection                        |       | pulsing                                                                      |
| Voltage drop                                    | $U_d$ | $\leq 5 \text{ V}$                                                           |
| Operating current                               | $I_L$ | 2 ... 100 mA                                                                 |
| Lowest operating current                        | $I_m$ | 2 mA                                                                         |
| Off-state current                               | $I_r$ | 0 ... 0.5 mA typ.                                                            |
| Switching state indicator                       |       | all direction LED, yellow                                                    |
| <b>Functional safety related parameters</b>     |       |                                                                              |
| MTTF <sub>d</sub>                               |       | 1739 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<br>Non-standard connector assignment |
| <b>Approvals and certificates</b>               |       |                                                                              |
| UL approval                                     |       | cULus Listed, General Purpose                                                |
| CSA approval                                    |       | cCSAus Listed, General Purpose                                               |
| CCC approval                                    |       | Certified by China Compulsory Certification (CCC)                            |
| <b>Ambient conditions</b>                       |       |                                                                              |
| Ambient temperature                             |       | -25 ... 70 °C (-13 ... 158 °F)                                               |
| <b>Mechanical specifications</b>                |       |                                                                              |
| Connection type                                 |       | cabl PUR , 2 m                                                               |
| Core cross-section                              |       | 0.34 mm <sup>2</sup>                                                         |
| Housing material                                |       | Stainless steel 1.4305 / AISI 303                                            |
| Sensing face                                    |       | PBT                                                                          |
| Degree of protection                            |       | IP67                                                                         |

## Connection



## Accessories

**BF 18**

Mounting flange, 18 mm