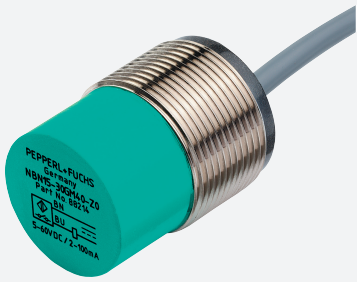


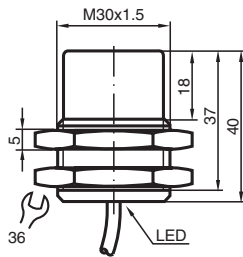
# Inductive sensor NCN15-30GM40-Z1



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



## Dimensions



## Technical Data

| General specifications      |       |                           |
|-----------------------------|-------|---------------------------|
| Switching function          |       | Normally closed (NC)      |
| Output type                 |       | Two-wire                  |
| Rated operating distance    | $s_n$ | 15 mm                     |
| Installation                |       | non-flush                 |
| Output polarity             |       | DC                        |
| Assured operating distance  | $s_a$ | 0 ... 12.2 mm             |
| Actual operating distance   | $s_r$ | 13.5 ... 16.5 mm typ.     |
| Reduction factor $r_{AI}$   |       | 0.38                      |
| Reduction factor $r_{CU}$   |       | 0.35                      |
| Reduction factor $r_{304}$  |       | 0.68                      |
| Output type                 |       | 2-wire                    |
| Nominal ratings             |       |                           |
| Operating voltage           | $U_B$ | 5 ... 60 V                |
| Switching frequency         | $f$   | 0 ... 100 Hz              |
| Hysteresis                  | $H$   | 1 ... 10 % typ. 5 %       |
| Reverse polarity protection |       | reverse polarity tolerant |

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

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**PEPPERL+FUCHS**

## Technical Data

|                                                 |       |                                                   |
|-------------------------------------------------|-------|---------------------------------------------------|
| 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>                               |       | 1751 a                                            |
| Mission Time (T <sub>M</sub> )                  |       | 20 a                                              |
| Diagnostic Coverage (DC)                        |       | 0 %                                               |
| <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                                    |       | Certified by China Compulsory Certification (CCC) |
| <b>Ambient conditions</b>                       |       |                                                   |
| Ambient temperature                             |       | -25 ... 70 °C (-13 ... 158 °F)                    |
| <b>Mechanical specifications</b>                |       |                                                   |
| Connection type                                 |       | cable                                             |
| Housing material                                |       | Stainless steel 1.4305 / AISI 303                 |
| Sensing face                                    |       | PBT                                               |
| Degree of protection                            |       | IP67                                              |
| Cable                                           |       |                                                   |
| Wire end ferrules                               |       | yes                                               |
| Cable diameter                                  |       | 4.8 mm ± 0.2 mm                                   |
| Bending radius                                  |       | > 10 x cable diameter                             |
| Material                                        |       | PUR                                               |
| Color                                           |       | black                                             |
| Number of cores                                 |       | 2                                                 |
| Core cross section                              |       | 0.34 mm <sup>2</sup>                              |
| Length                                          | L     | 2 m                                               |
| <b>Dimensions</b>                               |       |                                                   |
| Length                                          |       | 40 mm                                             |
| Diameter                                        |       | 30 mm                                             |

## Connection

