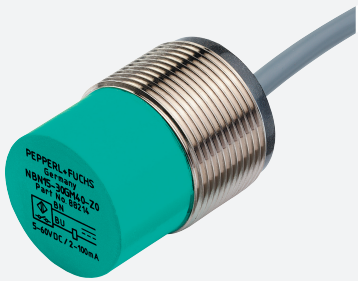


# Inductive sensor

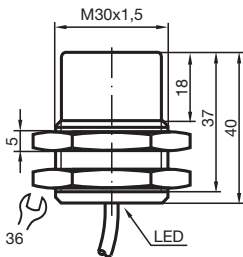
## NCN15-30GM40-Z0-3G-3D



- 15 mm non-flush
- ATEX-approval for zone 2 and zone 22



### Dimensions



### Technical Data

| General specifications            |                |                       |
|-----------------------------------|----------------|-----------------------|
| Switching function                |                | Normally open (NO)    |
| Output type                       |                | Two-wire              |
| Rated operating distance          | s <sub>n</sub> | 15 mm                 |
| Installation                      |                | non-flush             |
| Output polarity                   |                | DC                    |
| Assured operating distance        | s <sub>a</sub> | 0 ... 12.2 mm         |
| Actual operating distance         | s <sub>r</sub> | 13.5 ... 16.5 mm typ. |
| Reduction factor r <sub>AI</sub>  |                | 0.38                  |
| Reduction factor r <sub>Cu</sub>  |                | 0.35                  |
| Reduction factor r <sub>304</sub> |                | 0.68                  |
| Output type                       |                | 2-wire                |
| Nominal ratings                   |                |                       |

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

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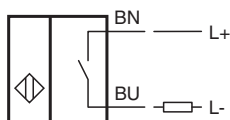
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**PEPPERL+FUCHS**

## Technical Data

|                                                       |       |                                                                                                                                    |
|-------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------|
| Operating voltage                                     | $U_B$ | 5 ... 60 V DC                                                                                                                      |
| Switching frequency                                   | $f$   | 0 ... 100 Hz                                                                                                                       |
| Hysteresis                                            | $H$   | 1 ... 10 typ. 5 %                                                                                                                  |
| Reverse polarity protection                           |       | reverse polarity tolerant                                                                                                          |
| Short-circuit protection                              |       | pulsing                                                                                                                            |
| Voltage drop                                          | $U_d$ | $\leq 5$ 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>Compliance with standards and directives</b>       |       |                                                                                                                                    |
| Standard conformity                                   |       |                                                                                                                                    |
| Standards                                             |       | EN 60947-5-2:2007<br>IEC 60947-5-2:2007                                                                                            |
| <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)                                                                                                     |
| Storage temperature                                   |       | -40 ... 85 °C (-40 ... 185 °F)                                                                                                     |
| <b>Mechanical specifications</b>                      |       |                                                                                                                                    |
| Connection type                                       |       | cable PVC , 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                                                                                                                               |
| Cable                                                 |       |                                                                                                                                    |
| Bending radius                                        |       | > 10 x cable diameter                                                                                                              |
| <b>Equipment protection level Dc (tc)</b>             |       |                                                                                                                                    |
| <b>Special conditions</b>                             |       |                                                                                                                                    |
| Maximum permissible ambient temperature<br>$T_{Umax}$ |       | dependant of the load current $I_L$ and the max. operating voltage $U_{Bmax}$<br>Information can be taken from the following list. |
| <b>General information</b>                            |       |                                                                                                                                    |
| Use in the hazardous area                             |       | see instruction manuals                                                                                                            |

## Connection



## Accessories

|                                                                                     |              |                        |
|-------------------------------------------------------------------------------------|--------------|------------------------|
|  | <b>BF 30</b> | Mounting flange, 30 mm |
|-------------------------------------------------------------------------------------|--------------|------------------------|