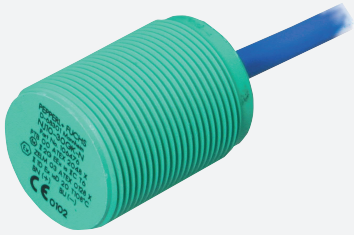


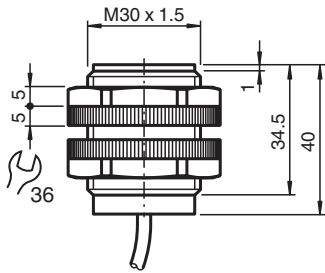
# Inductive sensor NJ15-30GK-N-20M



- Comfort series
- 15 mm non-flush



## Dimensions



## Technical Data

| General specifications       |       |                                      |
|------------------------------|-------|--------------------------------------|
| Switching function           |       | Normally closed (NC)                 |
| Output type                  |       | NAMUR                                |
| Rated operating distance     | $s_n$ | 15 mm                                |
| Installation                 |       | non-flush                            |
| Assured operating distance   | $s_a$ | 0 ... 12.15 mm                       |
| Reduction factor $r_{Al}$    |       | 0.4                                  |
| Reduction factor $r_{Cu}$    |       | 0.3                                  |
| Reduction factor $r_{304}$   |       | 0.85                                 |
| Output type                  |       | 2-wire                               |
| Nominal ratings              |       |                                      |
| Nominal voltage              | $U_o$ | 8.2 V ( $R_i$ approx. 1 k $\Omega$ ) |
| Switching frequency          | $f$   | 0 ... 100 Hz                         |
| Hysteresis                   | $H$   | 1 ... 5 typ. 3 %                     |
| Current consumption          |       |                                      |
| Measuring plate not detected |       | min. 3 mA                            |
| Measuring plate detected     |       | $\leq$ 1 mA                          |

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

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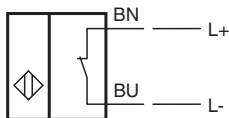
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 PEPPERL+FUCHS

## Technical Data

| Functional safety related parameters     |   |
|--|---|
| MTTF <sub>d</sub>                        | 4560 a  |
| Mission Time (T <sub>M</sub> )           | 20 a  |
| Diagnostic Coverage (DC)                 | 0 %   |
| Compliance with standards and directives |   |
| Standard conformity                      |   |
| NAMUR                                    | EN 60947-5-6:2000<br>IEC 60947-5-6:1999   |
| Standards                                | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012 |
| Approvals and certificates               |   |
| IECEX approval                           |   |
| Equipment protection level Gb            | IECEX PTB 11.0037X  |
| Equipment protection level Da            | IECEX PTB 11.0037X  |
| Equipment protection level Mb            | IECEX PTB 11.0037X  |
| ATEX approval                            |   |
| Equipment protection level Gb            | PTB 00 ATEX 2048 X  |
| Equipment protection level Da            | PTB 00 ATEX 2048 X  |
| UL approval                              | cULus Listed, General Purpose   |
| CCC approval                             |   |
| Hazardous Location                       | 2020322315002255  |
| NEPSI approval                           |   |
| NEPSI certificate                        | GYJ16.1393X   |
| ANZEx                                    | 18.3018X  |
| Ambient conditions                       |   |
| Ambient temperature                      | -25 ... 100 °C (-13 ... 212 °F)   |
| Mechanical specifications                |   |
| Connection type                          | cable PVC , 20 m  |
| Core cross section                       | 0.75 mm <sup>2</sup>  |
| Housing material                         | PBT   |
| Sensing face                             | PBT   |
| Degree of protection                     | IP66 / IP68   |
| Cable                                    |   |
| Bending radius                           | > 10 x cable diameter   |
| General information                      |   |
| Use in the hazardous area                | see instruction manuals   |

## Connection



## Accessories

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

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