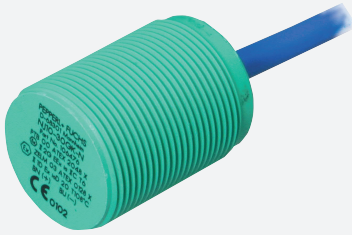


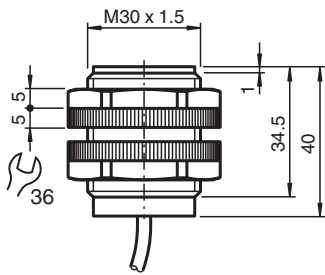
# Inductive sensor NJ15-30GK-N-30M



- 15 mm non-flush
- NAMUR output



## 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            |       |                                      |
| Installation conditions    |       |                                      |
| A                          |       | 18 mm                                |
| B                          |       | 30 mm                                |
| C                          |       | 45 mm                                |
| F                          |       | 90 mm                                |
| Nominal voltage            | $U_o$ | 8.2 V ( $R_i$ approx. 1 k $\Omega$ ) |

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

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**PEPPERL+FUCHS**

## Technical Data

|                                                 |   |                                         |
|-------------------------------------------------|---|-----------------------------------------|
| Switching frequency                             | f | 0 ... 100 Hz                            |
| Hysteresis                                      | H | 1 ... 5 % typ. 3 %                      |
| Current consumption                             |   |                                         |
| Measuring plate not detected                    |   | min. 3 mA                               |
| Measuring plate detected                        |   | ≤ 1 mA                                  |
| <b>Functional safety related parameters</b>     |   |                                         |
| MTTF <sub>d</sub>                               |   | 4560 a                                  |
| Mission Time (T <sub>M</sub> )                  |   | 20 a                                    |
| Diagnostic Coverage (DC)                        |   | 0 %                                     |
| <b>Compliance with standards and directives</b> |   |                                         |
| Standard conformity                             |   |                                         |
| NAMUR                                           |   | EN 60947-5-6:2000<br>IEC 60947-5-6:1999 |
| Standards                                       |   | EN IEC 60947-5-2                        |
| <b>Approvals and certificates</b>               |   |                                         |
| 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           |
| CML approval                                    |   | on request                              |
| ANZEx                                           |   | 18.3018X                                |
| <b>Ambient conditions</b>                       |   |                                         |
| Ambient temperature                             |   | -25 ... 100 °C (-13 ... 212 °F)         |
| <b>Mechanical specifications</b>                |   |                                         |
| Connection type                                 |   | cable                                   |
| Housing material                                |   | PBT                                     |
| Sensing face                                    |   | PBT                                     |
| Degree of protection                            |   | IP66 / IP68                             |
| Cable                                           |   |                                         |
| Wire end ferrules                               |   | yes                                     |
| Cable diameter                                  |   | 6 mm ± 0.2 mm                           |
| Bending radius                                  |   | > 10 x cable diameter                   |
| Material                                        |   | PVC                                     |
| Color                                           |   | blue                                    |
| Number of cores                                 |   | 2                                       |
| Core cross section                              |   | 0.75 mm <sup>2</sup>                    |
| Length                                          | L | 30 m                                    |
| Dimensions                                      |   |                                         |
| Length                                          |   | 40 mm                                   |
| Diameter                                        |   | 30 mm                                   |
| <b>General information</b>                      |   |                                         |
| Scope of delivery                               |   | Supplied with 2 nuts                    |
| Use in the hazardous area                       |   | see instruction manuals                 |

## Connection Assignment



## Installation Conditions

