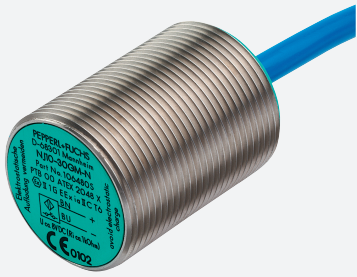


# Inductive sensor

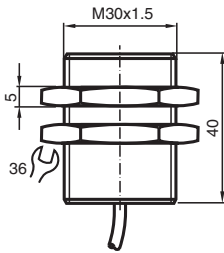
## NJ10-30GM-N



- 10 mm flush
- Usable up to SIL 2 acc. to IEC 61508
- NAMUR output
- Stainless steel housing



### Dimensions



### Technical Data

#### General specifications

|                            |       |                      |
|----------------------------|-------|----------------------|
| Switching function         |       | Normally closed (NC) |
| Output type                |       | NAMUR                |
| Rated operating distance   | $s_n$ | 10 mm                |
| Installation               |       | flush                |
| Assured operating distance | $s_a$ | 0 ... 8.1 mm         |
| Reduction factor $r_{AI}$  |       | 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 $\Omega$ ) |
| Operating voltage            | $U_B$ | 5 ... 25 V                           |
| Switching frequency          | $f$   | 0 ... 300 Hz                         |
| Hysteresis                   | $H$   | 3 %                                  |
| Current consumption          |       |                                      |
| Measuring plate not detected |       | $\geq 3$ mA at nominal voltage       |

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

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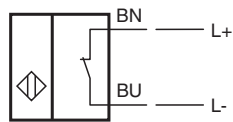
**PEPPERL+FUCHS**

## Technical Data

|                                          |   |                                         |
|------------------------------------------|---|-----------------------------------------|
| Measuring plate detected                 |   | ≤ 1 mA at nominal voltage               |
| Functional safety related parameters     |   |                                         |
| Safety Integrity Level (SIL)             |   | SIL 2                                   |
| Compliance with standards and directives |   |                                         |
| Standard conformity                      |   |                                         |
| NAMUR                                    |   | EN 60947-5-6:2000<br>IEC 60947-5-6:1999 |
| Standards                                |   | EN IEC 60947-5-2                        |
| Approvals and certificates               |   |                                         |
| IECEX approval                           |   |                                         |
| Equipment protection level Ga            |   | IECEX PTB 11.0037X                      |
| 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 Ga            |   | PTB 00 ATEX 2048 X                      |
| Equipment protection level Gb            |   | PTB 00 ATEX 2048 X                      |
| Equipment protection level Da            |   | PTB 00 ATEX 2048 X                      |
| UL approval                              |   |                                         |
| Ordinary Location                        |   | E87056                                  |
| Hazardous Location                       |   | E501628                                 |
| Control drawing                          |   | 116-0452                                |
| CCC approval                             |   |                                         |
| Hazardous Location                       |   | 2020322315002255                        |
| CML approval                             |   | on request                              |
| ANZEx                                    |   | 18.3018X                                |
| KCC approval                             |   |                                         |
| Hazardous Location                       |   | 19-AV4BO-0227                           |
| Marine approval                          |   | DNVGL TAA00001A5                        |
| Ambient conditions                       |   |                                         |
| Ambient temperature                      |   | -25 ... 100 °C (-13 ... 212 °F)         |
| Mechanical specifications                |   |                                         |
| Connection type                          |   | cable                                   |
| Housing material                         |   | Stainless steel 1.4305 / AISI 303       |
| Sensing face                             |   | PBT                                     |
| Degree of protection                     |   | IP66 / IP67                             |
| Cable                                    |   |                                         |
| Cable diameter                           |   | 6 mm ± 0.2 mm                           |
| Bending radius                           |   | > 10 x cable diameter                   |
| Material                                 |   | PVC                                     |
| Core cross section                       |   | 0.75 mm²                                |
| Length                                   | L | 2 m                                     |
| Dimensions                               |   |                                         |
| Length                                   |   | 40 mm                                   |
| Diameter                                 |   | 30 mm                                   |
| General information                      |   |                                         |
| Use in the hazardous area                |   | see instruction manuals                 |

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Connection



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