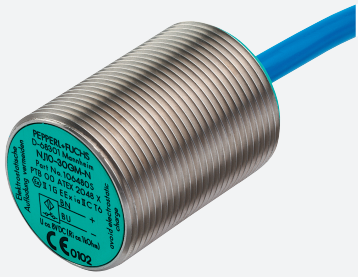


# Inductive sensor

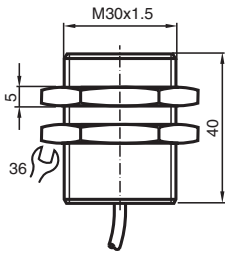
## NJ10-30GM-N-5M



- 10 mm flush
- Usable up to SIL 2 acc. to IEC 61508
- NAMUR output
- 5 meter connection cable



### 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 $r_{Al}$  |       | 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 ... 300 Hz                         |
| Current consumption          |       |                                      |
| Measuring plate not detected |       | min. 3 mA                            |
| Measuring plate detected     |       | $\leq$ 1 mA                          |

#### Functional safety related parameters

Release date: 2025-06-13 Date of issue: 2025-06-17 Filename: 70133313\_eng.pdf

## Technical Data

|   |  |   |
|---|--|---|
| Safety Integrity Level (SIL)                    | SIL 2                                    |   |
| <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 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                           |
| <b>Ambient conditions</b>                       |  |   |
| Ambient temperature                             | -25 ... 100 °C (-13 ... 212 °F)          |   |
| <b>Mechanical specifications</b>                |  |   |
| 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 mm <sup>2</sup>                     |   |
| Length  | L  | 5 m                                     |
| Dimensions                                      |  |   |
| Length  | 40 mm                                    |   |
| Diameter  | 30 mm                                    |   |
| <b>General information</b>                      |  |   |
| Scope of delivery                               | 2 self locking nuts in scope of delivery |   |
| Use in the hazardous area                       | see instruction manuals                  |   |

## Connection Assignment



Release date: 2025-06-13 Date of issue: 2025-06-17 Filename: 70133313\_eng.pdf