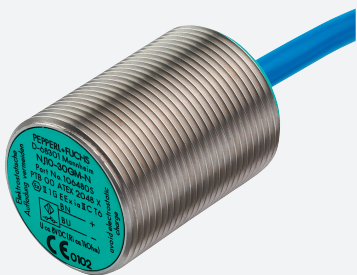


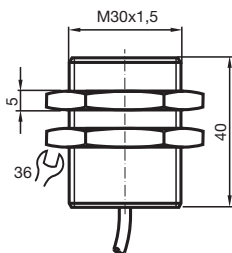
Inductive sensor  
NJ10-30GM-N-5M



- Comfort series
- 10 mm flush
- Usable up to SIL 2 acc. to IEC 61508



Dimensions



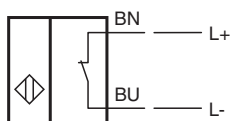
Technical Data

|                            |       |                                      |
|----------------------------|-------|--------------------------------------|
| 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 $\Omega$ ) |
| Switching frequency        | f     | 0 ... 300 Hz                         |
| Current consumption        |       |                                      |

## Technical Data

|                                                 |   |                                                                                             |
|-------------------------------------------------|---|---------------------------------------------------------------------------------------------|
| Measuring plate not detected                    |   | min. 3 mA                                                                                   |
| Measuring plate detected                        |   | ≤ 1 mA                                                                                      |
| <b>Compliance with standards and directives</b> |   |                                                                                             |
| 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 |
| <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                                                                          |
| EAC conformity                                  |   | TR CU 012/2011                                                                              |
| FM approval                                     |   |                                                                                             |
| Control drawing                                 |   | 116-0165                                                                                    |
| UL approval                                     |   |                                                                                             |
| Ordinary Location                               |   | E87056                                                                                      |
| Hazardous Location                              |   | E501628                                                                                     |
| Control drawing                                 |   | 116-0452                                                                                    |
| CSA approval                                    |   | cCSAus Listed, General Purpose                                                              |
| CCC approval                                    |   | CCC approval / marking not required for products rated ≤36 V                                |
| <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                                                                                         |
| <b>General information</b>                      |   |                                                                                             |
| Use in the hazardous area                       |   | see instruction manuals                                                                     |

## Connection



Accessories

|                                                                                   |               |                                       |
|-----------------------------------------------------------------------------------|---------------|---------------------------------------|
|  | <b>EXG-18</b> | Quick mounting bracket with dead stop |
|  | <b>BF 30</b>  | Mounting flange, 30 mm                |

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