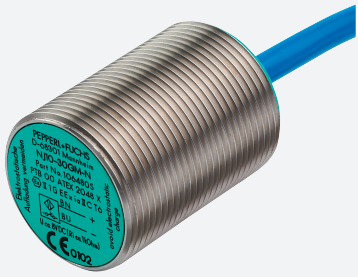


Inductive sensor

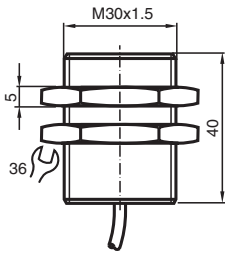
NJ10-30GM-N



- 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 Ω) |
| Operating voltage | U_B | 5 ... 25 V |
| Switching frequency | f | 0 ... 300 Hz |
| Hysteresis | H | 3 % |
| Current consumption | | |
| Measuring plate not detected | | ≥ 3 mA at nominal voltage |

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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 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 mm ² |
| Length | L 2 m |
| Dimensions | |
| Length | 40 mm |
| Diameter | 30 mm |
| General information | |
| Scope of delivery | 2 self locking nuts in scope of delivery |
| Use in the hazardous area | see instruction manuals |

Connection Assignment



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