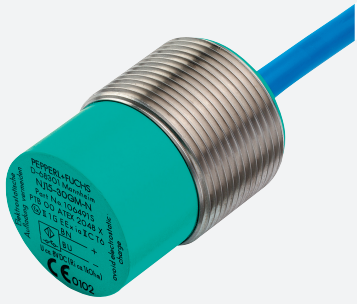


Inductive sensor

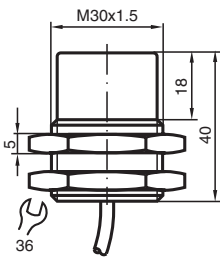
NJ15-30GM-N



- 15 mm non-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 | 15 mm |
| Installation | | non-flush |
| Assured operating distance | s_a | 0 ... 12.15 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 ... 100 Hz |
| Hysteresis | H | 3 % |
| Current consumption | | |
| Measuring plate not detected | | ≥ 3 mA at nominal voltage |

Release date: 2024-01-09 Date of issue: 2024-01-09 Filename: 70133321_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

| | | |
|---|---|-----|
| Measuring plate detected | ≤ 1 mA at nominal voltage | |
| Functional safety related parameters | | |
| Safety Integrity Level (SIL) | SIL 2 | |
| MTTF _d | 4560 a | |
| Mission Time (T _M) | 20 a | |
| Diagnostic Coverage (DC) | 0 % | |
| Compliance with standards and directives | | |
| Standard conformity | | |
| NAMUR | EN 60947-5-6:2000 IEC 60947-5-6:1999 | |
| Standards | EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012 | |
| 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 | |
| NEPSI approval | | |
| NEPSI certificate | GYJ16.1393X | |
| 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 | 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 | | |

Release date: 2024-01-09 Date of issue: 2024-01-09 Filename: 70133321_eng.pdf

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

 Pepperl+Fuchs Group
www.pepperl-fuchs.com

 USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

 Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

 Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

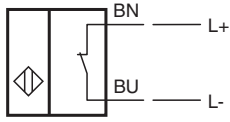
 **PEPPERL+FUCHS**

Technical Data

Use in the hazardous area

see instruction manuals

Connection



Release date: 2024-01-09 Date of issue: 2024-01-09 Filename: 70133321_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com