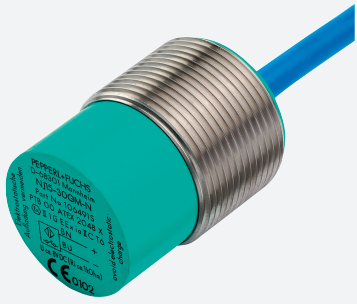


Inductive sensor

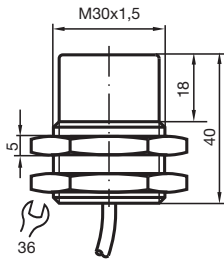
NJ15-30GM-N-2,5M



- Comfort series
- 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 |

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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

| | | |
|---|---|---|
| Current consumption | | |
| Measuring plate not detected | | ≥ 3 mA at nominal voltage |
| Measuring plate detected | | ≤ 1 mA at nominal voltage |
| Functional safety related parameters | | |
| 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 |
| EAC conformity | | TR CU 012/2011 |
| UL approval | | |
| Ordinary Location | | E87056 |
| Hazardous Location | | E501628 |
| Control drawing | | 116-0452 |
| CSA approval | | cCSAus Listed, General Purpose |
| CCC approval | | |
| Hazardous Location | | 2020322315002255 |
| NEPSI approval | | |
| NEPSI certificate | | GYJ16.1393X |
| 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 | 2.5 m |
| General information | | |
| Use in the hazardous area | | see instruction manuals |

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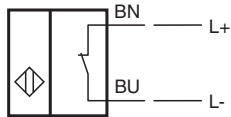
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 PEPPERL+FUCHS

Connection



Accessories

| | | |
|--|--------------|------------------------|
| | BF 30 | Mounting flange, 30 mm |
|--|--------------|------------------------|