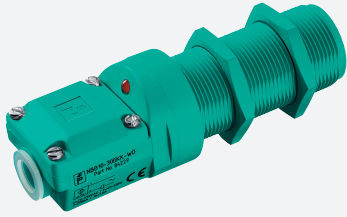


Inductive sensor

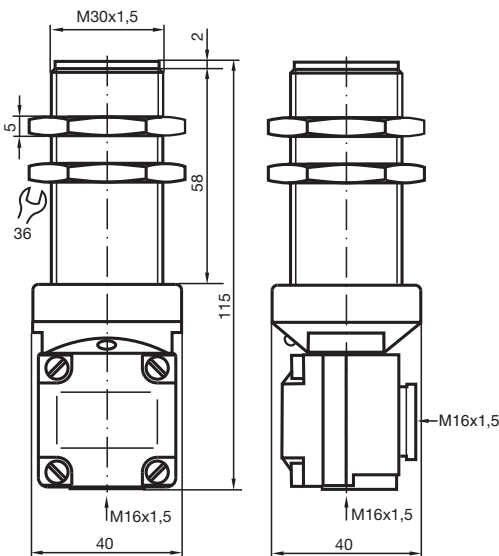
NJ15-30GKK-N



- 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) |
| Switching frequency | f | 0 ... 100 Hz |
| Current consumption | | |

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

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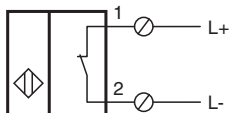
Singapore: +65 6779 9091
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PEPPERL+FUCHS

Technical Data

| | |
|---|--|
| Measuring plate not detected | min. 3 mA |
| Measuring plate detected | ≤ 1 mA |
| Functional safety related parameters | |
| MTTF _d | 5070 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 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 Gb | PTB 00 ATEX 2048 X |
| Equipment protection level Da | PTB 00 ATEX 2048 X |
| EAC conformity | TR CU 012/2011 |
| UL approval | cULus Listed, General Purpose |
| 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 | terminal compartment |
| Core cross-section | up to 2.5 mm ² , stripped insulation length: 7 mm |
| Connection (system side) | M16 x 1.5 cable gland at sensor tail and laterally, usable thread length at sensor tail 5.5 mm/laterally 7.5 mm |
| Housing material | PBT |
| Sensing face | PBT |
| Degree of protection | IP67 |
| General information | |
| Use in the hazardous area | see instruction manuals |

Connection



Accessories

| | | |
|---|---------------------|-------------------------------|
|  | <p>BF 30</p> | <p>Mounting flange, 30 mm</p> |
|---|---------------------|-------------------------------|

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