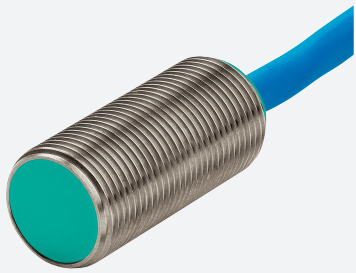


Inductive sensor

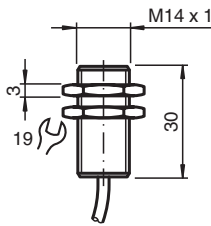
NJ2-11-N-G-15M



- Comfort series
- 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 | | 2 mm |
| Installation | | | flush |
| Assured operating distance | s_a | | 0 ... 1.62 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 ... 3000 Hz |
| Hysteresis | H | | 0.5 ... 3.5 typ. 2 % |
| Current consumption | | | |
| Measuring plate not detected | | | min. 3 mA |
| Measuring plate detected | | | \leq 1 mA |

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PEPPERL+FUCHS

Technical Data

| Functional safety related parameters | | |
|--|---|---|
| Safety Integrity Level (SIL) | | SIL 2 |
| MTTF _d | | 5887 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 |
| ANZEx | | 18.3018X |
| 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 | | PVDF |
| Degree of protection | | IP68 |
| Cable | | |
| Cable diameter | | 4.8 mm ± 0.2 mm |
| Bending radius | | > 10 x cable diameter |
| Material | | PVC |
| Core cross section | | 0.34 mm ² |
| Length | L | 15 m |
| General information | | |
| Use in the hazardous area | | see instruction manuals |

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Connection



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