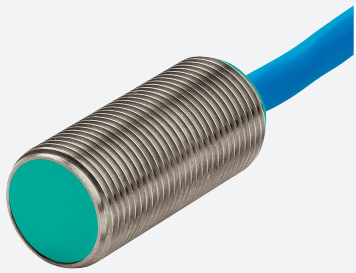


Inductive sensor

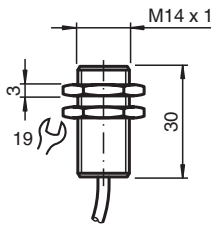
NJ2-11-N-G-5M



- 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 |

Release date: 2023-01-27 Date of issue: 2023-01-27 Filename: 70133195_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

PF 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 5 m |

General information

| | |
|---------------------------|-------------------------|
| Use in the hazardous area | see instruction manuals |
|---------------------------|-------------------------|

Connection



Release date: 2023-01-27 Date of issue: 2023-01-27 Filename: 70133195_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