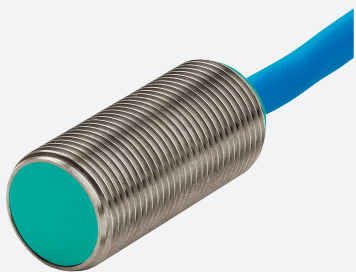


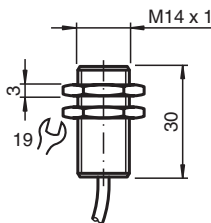
Inductive sensor  
NJ2-11-N-G-5M



- 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 V                  |
| Switching frequency          | $f$   | 0 ... 3000 Hz        |
| Hysteresis                   | $H$   | 0.5 ... 3.5 typ. 2 % |
| Current consumption          |       |                      |
| Measuring plate not detected |       | min. 3 mA            |

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

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 PEPPERL+FUCHS

## Technical Data

|                                                 |                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|
| Measuring plate detected                        | ≤ 1 mA                                                                                      |
| <b>Functional safety related parameters</b>     |                                                                                             |
| Safety Integrity Level (SIL)                    | SIL 2                                                                                       |
| MTTF <sub>d</sub>                               | 5887 a                                                                                      |
| Mission Time (T <sub>M</sub> )                  | 20 a                                                                                        |
| Diagnostic Coverage (DC)                        | 0 %                                                                                         |
| <b>Compliance with standards and directives</b> |                                                                                             |
| Standard conformity                             |                                                                                             |
| NAMUR                                           | EN 60947-5-6:2000<br>IEC 60947-5-6:1999                                                     |
| Standards                                       | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012 |
| <b>Approvals and certificates</b>               |                                                                                             |
| EAC conformity                                  | TR CU 012/2011                                                                              |
| FM approval                                     |                                                                                             |
| Control drawing                                 | 116-0165                                                                                    |
| UL approval                                     |                                                                                             |
| Ordinary Location                               | E87056                                                                                      |
| Hazardous Location                              | E501628                                                                                     |
| Control drawing                                 | 116-0452                                                                                    |
| CCC approval                                    | CCC approval / marking not required for products rated ≤36 V                                |
| <b>Ambient conditions</b>                       |                                                                                             |
| Ambient temperature                             | -25 ... 100 °C (-13 ... 212 °F)                                                             |
| <b>Mechanical specifications</b>                |                                                                                             |
| Connection type                                 | cable PVC , 5 m                                                                             |
| Core cross-section                              | 0.34 mm <sup>2</sup>                                                                        |
| Housing material                                | Stainless steel 1.4305 / AISI 303                                                           |
| Sensing face                                    | PVDF                                                                                        |
| Degree of protection                            | IP68                                                                                        |
| Cable                                           |                                                                                             |
| Bending radius                                  | > 10 x cable diameter                                                                       |
| <b>General information</b>                      |                                                                                             |
| Use in the hazardous area                       | see instruction manuals                                                                     |

## Connection

