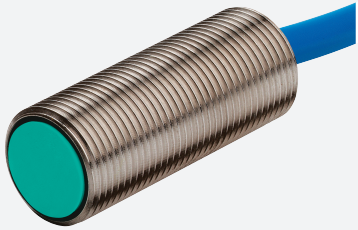


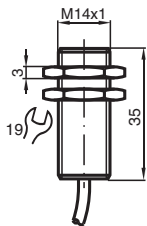
# Inductive sensor NJ2-11-N-G-910



■ 2 mm flush



## 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        |
| Actual operating distance  | $s_r$ | 1.8 ... 2.2 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            |

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

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**PEPPERL+FUCHS**

## Technical Data

|                                          |   |                                         |
|------------------------------------------|---|-----------------------------------------|
| Measuring plate detected                 |   | ≤ 1 mA                                  |
| Functional safety related parameters     |   |                                         |
| MTTF <sub>d</sub>                        |   | 5887 a                                  |
| Mission Time (T <sub>M</sub> )           |   | 20 a                                    |
| Diagnostic Coverage (DC)                 |   | 0 %                                     |
| Compliance with standards and directives |   |                                         |
| Standard conformity                      |   |                                         |
| NAMUR                                    |   | EN 60947-5-6:2000<br>IEC 60947-5-6:1999 |
| Standards                                |   | EN IEC 60947-5-2                        |
| 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                      |
| UL approval                              |   | cULus Listed, General Purpose           |
| CML approval                             |   | on request                              |
| Ambient conditions                       |   |                                         |
| Ambient temperature                      |   | -25 ... 100 °C (-13 ... 212 °F)         |
| Mechanical specifications                |   |                                         |
| Connection type                          |   | cable                                   |
| Housing material                         |   | nickel-plated steel                     |
| Sensing face                             |   | PVDF                                    |
| Degree of protection                     |   | IP68                                    |
| Cable                                    |   |                                         |
| Cable diameter                           |   | 4.8 mm ± 0.2 mm                         |
| Bending radius                           |   | > 10 x cable diameter                   |
| Material                                 |   | PVC                                     |
| Color                                    |   | blue                                    |
| Number of cores                          |   | 2                                       |
| Core cross section                       |   | 0.34 mm <sup>2</sup>                    |
| Length                                   | L | 2 m                                     |
| Dimensions                               |   |                                         |
| Length                                   |   | 35 mm                                   |
| Diameter                                 |   | 14 mm                                   |
| General information                      |   |                                         |
| Scope of delivery                        |   | Supplied with 2 nuts                    |
| Use in the hazardous area                |   | see instruction manuals                 |

## Connection

