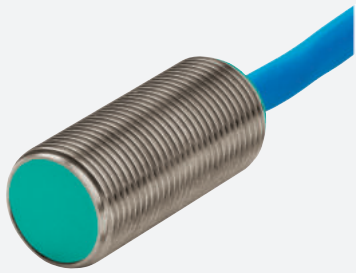


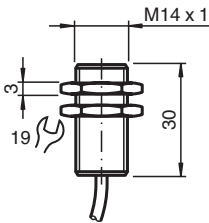
# Inductive sensor NJ2-11-N-G-Y28795



■ 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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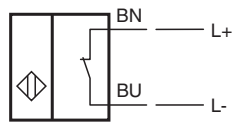
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**PEPPERL+FUCHS**

## Technical Data

|                                                 |                                         |
|-------------------------------------------------|-----------------------------------------|
| Measuring plate detected                        | ≤ 1 mA                                  |
| <b>Functional safety related parameters</b>     |                                         |
| 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 IEC 60947-5-2                        |
| <b>Approvals and certificates</b>               |                                         |
| 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                                |
| CML approval                                    | on request                              |
| ANZEx                                           | 18.3018X                                |
| <b>Ambient conditions</b>                       |                                         |
| Ambient temperature                             | -25 ... 100 °C (-13 ... 212 °F)         |
| <b>Mechanical specifications</b>                |                                         |
| 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 <sup>2</sup>                    |
| Length                                          | L 165 mm                                |
| Dimensions                                      |                                         |
| Length                                          | 30 mm                                   |
| Diameter                                        | 14 mm                                   |
| <b>General information</b>                      |                                         |
| Use in the hazardous area                       | see instruction manuals                 |

Connection



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