

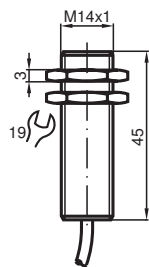
# Inductive sensor

## NJ2-11-N-G-Y133865

- Comfort series
- Front face compression proof up to 15 bar



### 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            |
| Measuring plate detected     |       | $\leq 1$ mA          |

#### Functional safety related parameters

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

**PEPPERL+FUCHS**

## Technical Data

|                                                 |                                         |
|-------------------------------------------------|-----------------------------------------|
| 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>IEC 60947-5-2:2007 |
| <b>Approvals and certificates</b>               |                                         |
| UL approval                                     | cULus Listed, General Purpose           |
| CSA approval                                    | cCSAus Listed, General Purpose          |
| <b>Ambient conditions</b>                       |                                         |
| Ambient temperature                             | -25 ... 100 °C (-13 ... 212 °F)         |
| <b>Mechanical specifications</b>                |                                         |
| Connection type                                 | cabl PVC , 2 m                          |
| Core cross-section                              | 0.34 mm <sup>2</sup>                    |
| Housing material                                | Steel 1.0711, nickel-plated             |
| Sensing face                                    | Crastin (PBTB)                          |
| Degree of protection                            | IP68                                    |
| Cable                                           |                                         |
| Bending radius                                  | > 10 x cable diameter                   |
| <b>General information</b>                      |                                         |
| Use in the hazardous area                       | see instruction manuals                 |

## Connection

