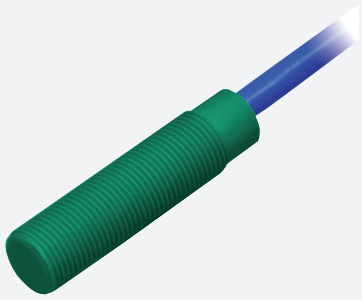
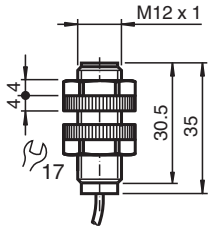
# Inductive sensor

# NJ4-12GK-N-C92

- Comfort series



## Dimensions




## Technical Data

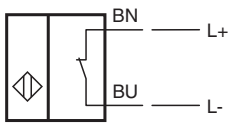
| | | |
|---|---|---|
| **General specifications** | | |
| Switching function | | Normally closed (NC) |
| Output type | | NAMUR |
| Rated operating distance | $s_n$ | 4 mm |
| Installation | | non-flush |
| Assured operating distance | $s_a$ | 0 ... 3.24 mm |
| Reduction factor $r_{Al}$ | | 0.4 |
| 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 kΩ) |
| Switching frequency | f | 0 ... 1500 Hz |
| Current consumption | | |
| Measuring plate not detected | | min. 3 mA |
| Measuring plate detected | | ≤ 1 mA |
| **Functional safety related parameters** | | |

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## Technical Data

| | | |
|---|---|---|
| $MTTF_d$ | | 11774 a |
| Mission Time ($T_M$) | | 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 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 |
| **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 |
| CSA approval | | cCSAus Listed, General Purpose |
| **Ambient conditions** | | |
| Ambient temperature | | -25 ... 100 °C (-13 ... 212 °F) |
| **Mechanical specifications** | | |
| Connection type | | cable |
| Housing material | | PBT |
| Sensing face | | PBT |
| Degree of protection | | IP68 |
| Cable | | |
| Cable diameter | | 4.8 mm ± 0.2 mm |
| Bending radius | | > 10 x cable diameter |
| Material | | SIHF |
| Core cross-section | | 0.34 $mm^2$ |
| Length | L | 200 mm |
| **General information** | | |
| Use in the hazardous area | | see instruction manuals |

## Connection




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