

# Inductive sensor

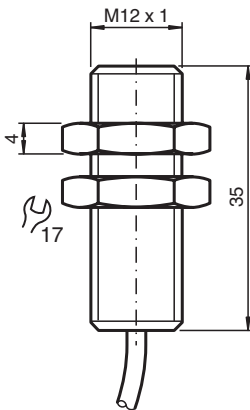
## NJ2-12GM-N-Y10638



- Comfort series
- 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                        |
| 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                      | $U_o$ |  | 8.2 V ( $R_i$ approx. 1 k $\Omega$ ) |
| Switching frequency                  | $f$   |  | 0 ... 2000 Hz                        |
| Current consumption                  |       |  |                                      |
| Measuring plate not detected         |       |  | min. 3 mA                            |
| Measuring plate detected             |       |  | $\leq$ 1 mA                          |
| Functional safety related parameters |       |  |                                      |

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

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 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>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>               |   |
| 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   |
| 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                                    | PBT   |
| Degree of protection                            | IP67  |
| Cable   |   |
| Cable diameter                                  | 4.8 mm ± 0.2 mm   |
| Bending radius                                  | > 10 x cable diameter   |
| Material  | PUR   |
| Core cross section                              | 0.34 mm <sup>2</sup>  |
| Length  | L 2 m   |
| <b>General information</b>                      |   |
| Use in the hazardous area                       | see instruction manuals   |

## Connection

