

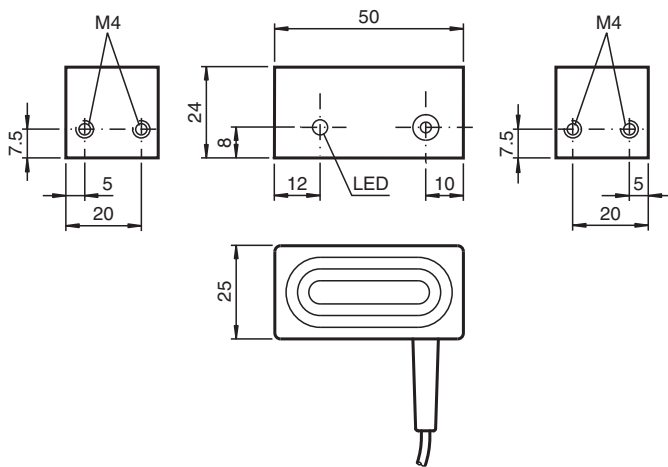


# Inductive sensor FJ7-N

■ 7 mm flush



## Dimensions



## Technical Data

| General specifications               |       |                                      |
|--------------------------------------|-------|--------------------------------------|
| Switching function                   |       | Normally closed (NC)                 |
| Output type                          |       | NAMUR                                |
| Rated operating distance             | $s_n$ | 7 mm                                 |
| Installation                         |       | flush                                |
| Assured operating distance           | $s_a$ | 0 ... 5.67 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 k $\Omega$ ) |
| Operating voltage                    | $U_B$ | 5 ... 25 V                           |
| Switching frequency                  | $f$   | 0 ... 200 Hz                         |
| Hysteresis                           | $H$   | typ. %                               |
| Current consumption                  |       |                                      |
| Measuring plate not detected         |       | $\geq 3$ mA at nominal voltage       |
| Measuring plate detected             |       | $\leq 1$ mA at nominal voltage       |
| Switching state indicator            |       | LED, yellow                          |
| Functional safety related parameters |       |                                      |
| MTTF <sub>d</sub>                    |       | 4080 a                               |

Release date: 2020-05-13 Date of issue: 2020-05-13 Filename: 306134\_eng.pdf

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

|                                                 |                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|
| 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                                                                           |
| 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>               |                                                                                             |
| FM approval                                     |                                                                                             |
| Control drawing                                 | 116-0165                                                                                    |
| CCC approval                                    | CCC approval / marking not required for products rated ≤36 V                                |
| <b>Ambient conditions</b>                       |                                                                                             |
| Ambient temperature                             | -25 ... 100 °C (-13 ... 212 °F)                                                             |
| <b>Mechanical specifications</b>                |                                                                                             |
| Connection type                                 | cabl PUR , 2 m                                                                              |
| Core cross-section                              | 0.34 mm <sup>2</sup>                                                                        |
| Housing material                                | brass, zinc plated                                                                          |
| Sensing face                                    | POM                                                                                         |
| Degree of protection                            | IP67                                                                                        |
| <b>Cable</b>                                    |                                                                                             |
| Bending radius                                  | > 10 x cable diameter                                                                       |
| <b>General information</b>                      |                                                                                             |
| Use in the hazardous area                       | see instruction manuals                                                                     |

## Connection

N / NO

