

# Inductive sensor

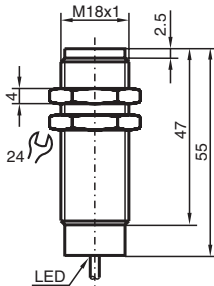
## NMB10-18GM55-E0-5M



- 10 mm flush
- Stainless steel sensing face
- Increased operating distance
- 5 m cable length



### Dimensions



### Technical Data

| General specifications             |                |                                         |
|------------------------------------|----------------|-----------------------------------------|
| Switching function                 |                | Normally open (NO)                      |
| Output type                        |                | NPN                                     |
| Rated operating distance           | s <sub>n</sub> | 10 mm                                   |
| Installation                       |                | flush (Requirements: see drawing below) |
| Output polarity                    |                | DC                                      |
| Assured operating distance         | s <sub>a</sub> | 0 ... 8.1 mm                            |
| Actuating element                  |                | Ferrous and nonferrous targets          |
| Reduction factor r <sub>Al</sub>   |                | 0.4                                     |
| Reduction factor r <sub>Cu</sub>   |                | 0.25                                    |
| Reduction factor r <sub>304</sub>  |                | 0.85                                    |
| Reduction factor r <sub>St37</sub> |                | 1                                       |
| Output type                        |                | 3-wire                                  |
| Nominal ratings                    |                |                                         |
| Operating voltage                  | U <sub>B</sub> | 10 ... 30 V DC                          |
| Switching frequency                | f              | 0 ... 240 Hz                            |
| Hysteresis                         | H              | 3 ... 15 typ. 10 %                      |

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

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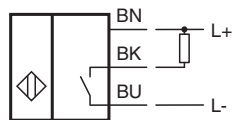
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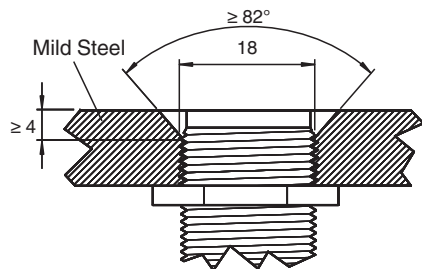
Technical Data

|                                                 |       |                                                                           |
|-------------------------------------------------|-------|---------------------------------------------------------------------------|
| Reverse polarity protection                     |       | reverse polarity protected                                                |
| Short-circuit protection                        |       | pulsing                                                                   |
| Voltage drop                                    | $U_d$ | $\leq 2\text{ V}$                                                         |
| Operating current                               | $I_L$ | $\leq 200\text{ mA}$                                                      |
| Off-state current                               | $I_r$ | $10\text{ }\mu\text{A}$                                                   |
| No-load supply current                          | $I_0$ | $\leq 10\text{ mA}$                                                       |
| Operating voltage indicator                     |       | LED, green                                                                |
| Switching state indicator                       |       | LED, yellow                                                               |
| <b>Functional safety related parameters</b>     |       |                                                                           |
| MTTF <sub>d</sub>                               |       | 847 a                                                                     |
| Mission Time (T <sub>M</sub> )                  |       | 20 a                                                                      |
| Diagnostic Coverage (DC)                        |       | 0 %                                                                       |
| <b>Compliance with standards and directives</b> |       |                                                                           |
| Standard conformity                             |       |                                                                           |
| Standards                                       |       | EN IEC 60947-5-2                                                          |
| <b>Approvals and certificates</b>               |       |                                                                           |
| UL approval                                     |       | cULus Listed, General Purpose                                             |
| CCC approval                                    |       | CCC approval / marking not required for products rated $\leq 36\text{ V}$ |
| <b>Ambient conditions</b>                       |       |                                                                           |
| Ambient temperature                             |       | -25 ... 70 °C (-13 ... 158 °F)                                            |
| <b>Mechanical specifications</b>                |       |                                                                           |
| Connection type                                 |       | cable PUR , 5 m                                                           |
| Core cross section                              |       | 0.5 mm <sup>2</sup>                                                       |
| Housing material                                |       | Stainless steel 1.4305 / AISI 303                                         |
| Sensing face                                    |       | Stainless steel 1.4305 / AISI 303                                         |
| Degree of protection                            |       | IP67                                                                      |
| <b>Dimensions</b>                               |       |                                                                           |
| Length                                          |       | 55 mm                                                                     |
| Diameter                                        |       | 18 mm                                                                     |

Connection



Mounting



Sensor face is flush with mounting surface.

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