

## Inductive sensor

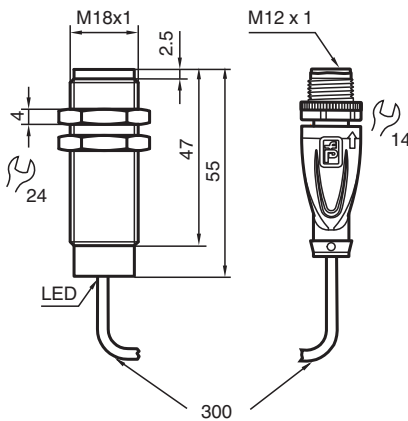
### NMB5-18GM55-Z0-C-FE-300MM-V1



- Stainless steel sensing face
- Sensing range 5 mm
- 2-wire DC
- Weld field immune
- Weld slag resistant coating
- Ferrous targets



## Dimensions



## Technical Data

### General specifications

|                              |       |                    |
|------------------------------|-------|--------------------|
| Switching function           |       | Normally open (NO) |
| Output type                  |       | Two-wire           |
| Rated operating distance     | $s_n$ | 5 mm               |
| Installation                 |       | flush              |
| Output polarity              |       | DC                 |
| Assured operating distance   | $s_a$ | 0 ... 4.05 mm      |
| Actuating element            |       | Ferrous targets    |
| Reduction factor $r_{Al}$    |       | 0                  |
| Reduction factor $r_{Cu}$    |       | 0                  |
| Reduction factor $r_{304}$   |       | 0.6 - 0.8          |
| Reduction factor $r_{S137}$  |       | 1                  |
| Reduction factor $r_{Brass}$ |       | 0                  |
| Output type                  |       | 2-wire             |

### Nominal ratings

|                             |       |                           |
|-----------------------------|-------|---------------------------|
| Operating voltage           | $U_B$ | 6 ... 30 V DC             |
| Switching frequency         | $f$   | 0 ... 5 Hz                |
| Hysteresis                  | $H$   | 3 ... 15 typ. 5 %         |
| Reverse polarity protection |       | reverse polarity tolerant |

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

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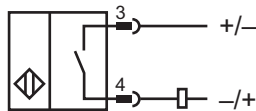
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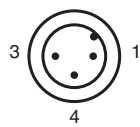
# Technical Data

|                                                 |       |                                                                            |
|-------------------------------------------------|-------|----------------------------------------------------------------------------|
| Short-circuit protection                        |       | no                                                                         |
| Voltage drop                                    | $U_d$ | $\leq 5.5 \text{ V DC}$                                                    |
| Operating current                               | $I_L$ | 2 ... 100 mA                                                               |
| Off-state current                               | $I_r$ | $\leq 800 \mu\text{A}$                                                     |
| Switching state indicator                       |       | LED, red                                                                   |
| Mag. Field strength, AC fields                  |       | 250 mT                                                                     |
| Mag. Field strength, DC fields                  |       | 250 mT                                                                     |
| <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                                 |       | fixed cable with plug                                                      |
| Housing material                                |       | Xylan coated - Stainless steel 1.4305 / AISI 303                           |
| Sensing face                                    |       | Xylan coated - Stainless steel 1.4305 / AISI 303                           |
| Degree of protection                            |       | IP67 / IP68 / IP69K - cordset dependent according to cable specification   |
| Connector                                       |       |                                                                            |
| Threading                                       |       | M12 x 1                                                                    |
| Tightening torque                               |       | 0.6 Nm                                                                     |
| Number of pins                                  |       | 3                                                                          |
| Cable                                           |       |                                                                            |
| Cable diameter                                  |       | 4.8 mm $\pm$ 0.2 mm                                                        |
| Material                                        |       | POC                                                                        |
| Color                                           |       | orange                                                                     |
| Number of cores                                 |       | 4                                                                          |
| Core cross section                              |       | 0.34 mm <sup>2</sup>                                                       |
| Length                                          | L     | 300 mm                                                                     |
| Mass                                            |       | 82 g                                                                       |
| Dimensions                                      |       |                                                                            |
| Length                                          |       | 55 mm                                                                      |
| Diameter                                        |       | 18 mm                                                                      |

# Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

|   |    |         |
|---|----|---------|
| 1 | BN | (brown) |
| 3 | BU | (blue)  |
| 4 | BK | (black) |

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