

## Inductive sensor

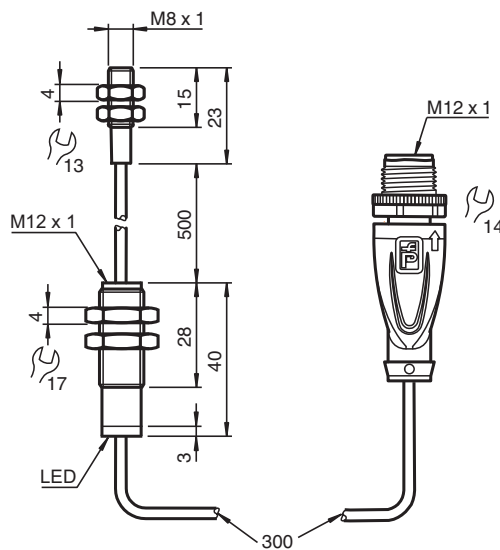
NMB1,5-8GM23-Z3-C-FE-850MM-V1



- 1.5 mm flush
- 2-wire DC
- Stainless steel sensing face
- 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   | $s_n$ | 1.5 mm             |
| Installation               |       | flush              |
| Output polarity            |       | DC                 |
| Assured operating distance | $s_a$ | 0 ... 1.215 mm     |

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

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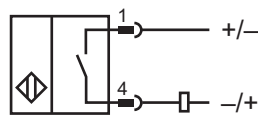
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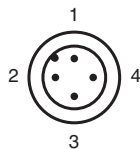
## Technical Data

|                                                 |       |                                                              |
|-------------------------------------------------|-------|--------------------------------------------------------------|
| Actuating element                               |       | Ferrous targets                                              |
| Reduction factor $r_{Al}$                       |       | 0                                                            |
| Reduction factor $r_{Cu}$                       |       | 0                                                            |
| Reduction factor $r_{304}$                      |       | 0.4 - 0.7                                                    |
| Reduction factor $r_{St37}$                     |       | 1                                                            |
| Reduction factor $r_{Brass}$                    |       | 0                                                            |
| Output type                                     |       | 2-wire                                                       |
| <b>Nominal ratings</b>                          |       |                                                              |
| 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                                    |
| Short-circuit protection                        |       | pulsing                                                      |
| Voltage drop                                    | $U_d$ | ≤ 4.5 V DC at 30 mA                                          |
| Operating current                               | $I_L$ | 2 ... 100 mA                                                 |
| Lowest operating current                        | $I_m$ | 2 mA                                                         |
| Off-state current                               | $I_r$ | ≤ 0.6 mA                                                     |
| 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 ≤36 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                                                         |
| Connector                                       |       |                                                              |
| Threading                                       |       | M12 x 1                                                      |
| Tightening torque                               |       | 0.6 Nm                                                       |
| Number of pins                                  |       | 3                                                            |
| Cable                                           |       |                                                              |
| Cable diameter                                  |       | 4.8 mm ± 0.2 mm                                              |
| Material                                        |       | POC                                                          |
| Color                                           |       | orange                                                       |
| Number of cores                                 |       | 4                                                            |
| Core cross section                              |       | 0.34 mm <sup>2</sup>                                         |
| Length                                          | $L$   | 850 mm                                                       |
| <b>Dimensions</b>                               |       |                                                              |
| Length                                          |       | 23 mm                                                        |
| Diameter                                        |       | 8 mm                                                         |

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

|   |    |         |
|---|----|---------|
| 1 | BN | (brown) |
| 2 | WH | (white) |
| 3 | BU | (blue)  |
| 4 | BK | (black) |