

# Inductive sensor

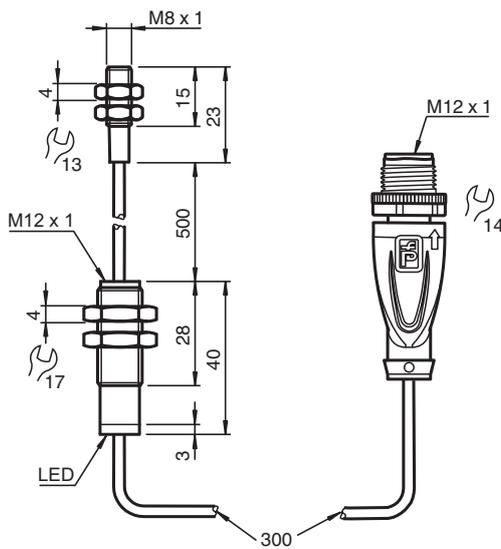
## NMB1,5-8GM23-Z3-C-FE-850MM-V1



- 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     |

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

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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<br>Circuitry: Class 2 Power Source<br>Enclosure Type Rating: Type 1<br>Supply/Switching Voltage: 30 V DC<br>Output Switching Current: 100 mA |
| 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  |
| Mass  |       | 75 g  |
| Dimensions                                      |       |   |
| Length  |       | 23 mm   |
| Diameter  |       | 8 mm  |

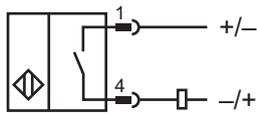
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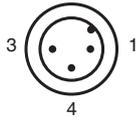
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## Connection



## Connection Assignment



Wire colors in accordance with EN 60947-5-2

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