

# Inductive sensor

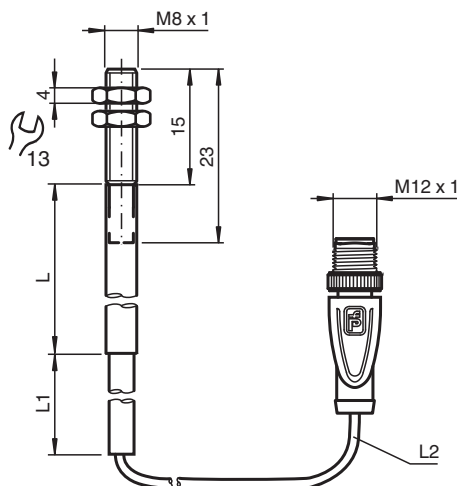
## NMB3-8GM23-Z4-C-850MM-V1



- 3 mm flush
- Stainless steel sensing face
- Increased operating distance
- Weld Immune



### Dimensions



### Technical Data

| General specifications      |       |                             |
|-----------------------------|-------|-----------------------------|
| Switching function          |       | Normally open (NO)          |
| Output type                 |       | Two-wire                    |
| Rated operating distance    | $s_n$ | 3 mm                        |
| Installation                |       | flush                       |
| Output polarity             |       | DC                          |
| Assured operating distance  | $s_a$ | 0 ... 2.43 mm               |
| Actuating element           |       | Ferrous targets             |
| Reduction factor $r_{Al}$   |       | 0.3                         |
| Reduction factor $r_{304}$  |       | 0.8                         |
| Output type                 |       | 2-wire                      |
| Nominal ratings             |       |                             |
| Operating voltage           | $U_B$ | 6 ... 30 V DC               |
| Switching frequency         | $f$   | 5 Hz                        |
| Hysteresis                  | $H$   | 5 ... 15 typ. 10 %          |
| Reverse polarity protection |       | reverse polarity-conductive |

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

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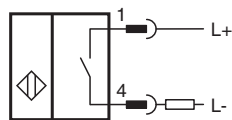
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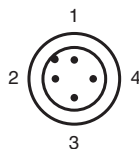
Technical Data

|                                                 |       |                                                                                             |
|-------------------------------------------------|-------|---------------------------------------------------------------------------------------------|
| Short-circuit protection                        |       | pulsing                                                                                     |
| Voltage drop                                    | $U_d$ | $\leq 3\text{ V}$                                                                           |
| Operating current                               | $I_L$ | 2 ... 100 mA                                                                                |
| Off-state current                               | $I_r$ | $< 500\text{ }\mu\text{A}$                                                                  |
| 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 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>               |       |                                                                                             |
| UL approval                                     |       | cULus Listed, General Purpose                                                               |
| CSA approval                                    |       | cCSAus Listed, General Purpose                                                              |
| CCC approval                                    |       | CCC approval / marking not required for products rated $\leq 36\text{ V}$                   |
| <b>Ambient conditions</b>                       |       |                                                                                             |
| Ambient temperature                             |       | $-25 \dots 70\text{ }^\circ\text{C}$ ( $-13 \dots 158\text{ }^\circ\text{F}$ )              |
| <b>Mechanical specifications</b>                |       |                                                                                             |
| Connection type                                 |       | Cable connector M12 x 1 , TPE cable<br>L = 500 mm<br>L1 = 50 mm<br>L2 = 300 mm              |
| Housing material                                |       | Xylan coated - Stainless steel 1.4305 / AISI 303                                            |
| Sensing face                                    |       | Xylan coated - Stainless steel 1.4305 / AISI 303                                            |
| Degree of protection                            |       | IP67                                                                                        |

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

## Accessories

|                                                                                   |                      |                                                                                        |
|-----------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------|
|  | <b>BF 8</b>          | Mounting flange, 8 mm                                                                  |
|  | <b>EXG-08</b>        | Quick mounting bracket with dead stop                                                  |
|  | <b>V1-G-OR2M-POC</b> | Female cordset single-ended M12 A-coded 4-pin, TPE cable welding-bead resistant orange |