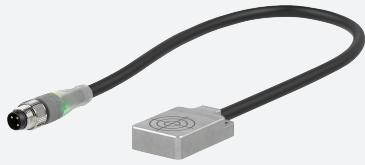


# Inductive sensor

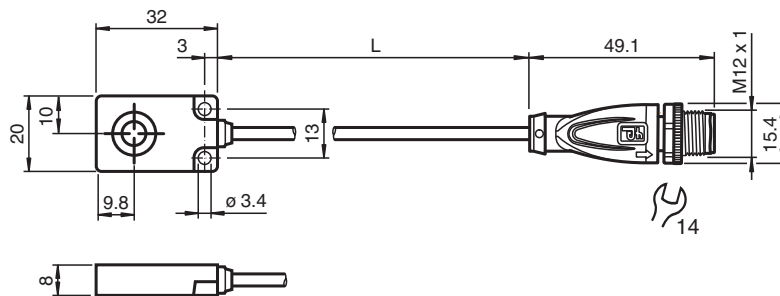
## NMB6-F104M-E2-FE-200MM-V1



- Sensing range 6 mm
- Ferrous targets
- Stainless steel sensing face
- 200 mm M12 male cordset with PUR jacket
- Power and output LEDs



### Dimensions



### Technical Data

| General specifications      |       |                            |
|-----------------------------|-------|----------------------------|
| Switching function          |       | Normally open (NO)         |
| Output type                 |       | PNP                        |
| Rated operating distance    | $s_n$ | 6 mm                       |
| Installation                |       | flush                      |
| Assured operating distance  | $s_a$ | 0 ... 4.86 mm              |
| Actuating element           |       | Ferrous targets            |
| Reduction factor $r_{AI}$   |       | 0                          |
| Reduction factor $r_{Cu}$   |       | 0                          |
| Reduction factor $r_{304}$  |       | 0.6 ... 0.8                |
| Reduction factor $r_{Si37}$ |       | 1                          |
| Output type                 |       | 3-wire                     |
| Nominal ratings             |       |                            |
| Operating voltage           | $U_B$ | 10 ... 30 V DC             |
| Switching frequency         | $f$   | 20 Hz                      |
| Hysteresis                  | $H$   | 5 ... 15 typ. 10 %         |
| Reverse polarity protection |       | reverse polarity protected |

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

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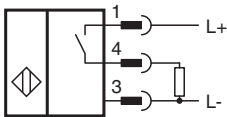
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**PEPPERL+FUCHS**

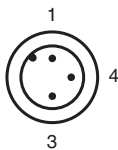
Technical Data

|                                   |       |                                                                                |
|-----------------------------------|-------|--------------------------------------------------------------------------------|
| Short-circuit protection          |       | yes                                                                            |
| Voltage drop                      | $U_d$ | $\leq 2\text{ V}$                                                              |
| Operating current                 | $I_L$ | $\leq 100\text{ mA}$                                                           |
| Current consumption               |       | $\leq 22\text{ mA}$                                                            |
| Off-state current                 | $I_r$ | $\leq 10\text{ }\mu\text{A}$                                                   |
| <b>Indicators/operating means</b> |       |                                                                                |
| Operation indicator               |       | Dual LED<br>Green: power<br>Yellow: output                                     |
| <b>Standard conformity</b>        |       |                                                                                |
| Standards                         |       | EN 60947-5-2:2007<br>IEC 60947-5-2:2007                                        |
| <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               |       | $-25 \dots 70\text{ }^\circ\text{C}$ ( $-13 \dots 158\text{ }^\circ\text{F}$ ) |
| <b>Mechanical specifications</b>  |       |                                                                                |
| Connection type                   |       | fixed cable with plug                                                          |
| Housing material                  |       | Stainless steel 1.4305 / AISI 303                                              |
| Degree of protection              |       | IP67                                                                           |
| <b>Connector</b>                  |       |                                                                                |
| Threading                         |       | M12 x 1                                                                        |
| Tightening torque                 |       | 0.6 Nm                                                                         |
| Number of pins                    |       | 3                                                                              |
| <b>Cable</b>                      |       |                                                                                |
| Cable diameter                    |       | $4.3\text{ mm} \pm 0.1\text{ mm}$                                              |
| Bending radius                    |       | $> 10 \times \text{cable diameter}$                                            |
| Material                          |       | PUR                                                                            |
| Color                             |       | black                                                                          |
| Number of cores                   |       | 3                                                                              |
| Core cross section                |       | $0.34\text{ mm}^2$                                                             |
| Length                            | L     | 200 mm                                                                         |

Connection



Connection Assignment



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Connection Assignment

Wire colors in accordance with EN 60947-5-2

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

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