

# Inductive sensor

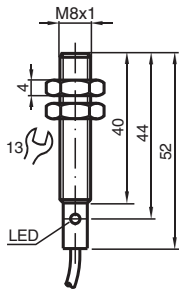
## NMB1,5-8GM50-E0-FE



- Stainless steel sensing face
- Sensing range 1.5 mm
- 3-wire DC
- Ferrous targets



### Dimensions



### Technical Data

| General specifications             |                |                    |
|------------------------------------|----------------|--------------------|
| Switching function                 |                | Normally open (NO) |
| Output type                        |                | NPN                |
| Rated operating distance           | s <sub>n</sub> | 1.5 mm             |
| Installation                       |                | flush              |
| Output polarity                    |                | DC                 |
| Assured operating distance         | s <sub>a</sub> | 0 ... 1.215 mm     |
| Actuating element                  |                | Ferrous targets    |
| Reduction factor r <sub>Al</sub>   |                | 0                  |
| Reduction factor r <sub>Cu</sub>   |                | 0                  |
| Reduction factor r <sub>304</sub>  |                | 0.6                |
| Reduction factor r <sub>St37</sub> |                | 1                  |
| Output type                        |                | 3-wire             |
| Nominal ratings                    |                |                    |
| Operating voltage                  | U <sub>B</sub> | 10 ... 30 V DC     |
| Switching frequency                | f              | 80 Hz              |
| Hysteresis                         | H              | 3 ... 15 typ. 5 %  |

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

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## Technical Data

|                                   |       |                                                                                  |
|-----------------------------------|-------|----------------------------------------------------------------------------------|
| Reverse polarity protection       |       | yes                                                                              |
| Short-circuit protection          |       | yes                                                                              |
| Voltage drop                      | $U_d$ | $\leq 2 \text{ V}$                                                               |
| Operating current                 | $I_L$ | $\leq 100 \text{ mA}$                                                            |
| Current consumption               |       | $\leq 15 \text{ mA}$                                                             |
| Off-state current                 | $I_r$ | $\leq 10 \mu\text{A}$                                                            |
| <b>Indicators/operating means</b> |       |                                                                                  |
| Operation indicator               |       | LED red: 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                   |       | cable                                                                            |
| Housing material                  |       | Stainless steel 1.4305 / AISI 303                                                |
| Sensing face                      |       | Stainless steel 1.4305 / AISI 303                                                |
| Degree of protection              |       | IP67                                                                             |
| <b>Cable</b>                      |       |                                                                                  |
| Wire end ferrules                 |       | yes                                                                              |
| Cable diameter                    |       | 3 mm - 0.2 mm                                                                    |
| Bending radius                    |       | $> 12 \times \text{cable diameter}$                                              |
| Material                          |       | PUR                                                                              |
| Color                             |       | black                                                                            |
| Number of cores                   |       | 3                                                                                |
| Core cross section                |       | $0.14 \text{ mm}^2$                                                              |
| Length                            | L     | 2 m                                                                              |
| <b>Dimensions</b>                 |       |                                                                                  |
| Length                            |       | 40 mm                                                                            |
| Diameter                          |       | 8 mm                                                                             |

## Connection

