

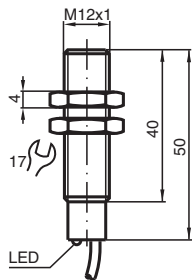
# Magnetic field sensor MMB70-12GH50-1N



- Comfort series
- 70 mm flush



## Dimensions



## Technical Data

### General specifications

|                          |       |                             |
|--------------------------|-------|-----------------------------|
| Switching function       |       | Normally open (NO)          |
| Output type              |       | NAMUR                       |
| Rated operating distance | $s_n$ | 5 ... 70 mm                 |
| Installation             |       | flush in non-magnetic metal |
| Output type              |       | 2-wire                      |

### Nominal ratings

|                           |       |                                      |
|---------------------------|-------|--------------------------------------|
| Nominal voltage           | $U_o$ | 8.2 V ( $R_i$ approx. 1 k $\Omega$ ) |
| Switching frequency       | $f$   | 0 ... 1000 Hz                        |
| Current consumption       |       |                                      |
| Magnet detected           |       | $\geq 2.3$ mA                        |
| Magnet not detected       |       | $\leq 1$ mA                          |
| Switching state indicator |       | LED, yellow                          |

### Functional safety related parameters

|                          |  |        |
|--------------------------|--|--------|
| MTTF <sub>d</sub>        |  | 2828 a |
| Mission Time ( $T_M$ )   |  | 20 a   |
| Diagnostic Coverage (DC) |  | 0 %    |

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

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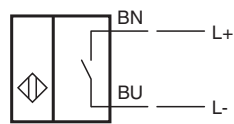
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PEPPERL+FUCHS

Technical Data

|                                          |  |                                           |
|------------------------------------------|--|-------------------------------------------|
| Compliance with standards and directives |  |                                           |
| Standard conformity                      |  |                                           |
| NAMUR                                    |  | EN 60947-5-6:2000                         |
| Standards                                |  | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012 |
| Approvals and certificates               |  |                                           |
| IECEX approval                           |  |                                           |
| Equipment protection level Ga            |  | IECEX TUN 20.0007                         |
| Equipment protection level Da            |  | IECEX TUN 20.0007                         |
| ATEX approval                            |  |                                           |
| Equipment protection level Ga            |  | TÜV 20 ATEX 241336                        |
| Equipment protection level Da            |  | TÜV 20 ATEX 241336                        |
| Ambient conditions                       |  |                                           |
| Ambient temperature                      |  | -25 ... 70 °C (-13 ... 158 °F)            |
| Mechanical specifications                |  |                                           |
| Connection type                          |  | cablc PVC , 2 m                           |
| Core cross section                       |  | 0.34 mm²                                  |
| Housing material                         |  | Stainless steel 1.4404 / AISI 316L        |
| Sensing face                             |  | Stainless steel 1.4404 / AISI 316L        |
| Degree of protection                     |  | IP67                                      |
| Dimensions                               |  |                                           |
| Length                                   |  | 50 mm                                     |
| Diameter                                 |  | 12 mm                                     |
| General information                      |  |                                           |
| Use in the hazardous area                |  | see instruction manuals                   |

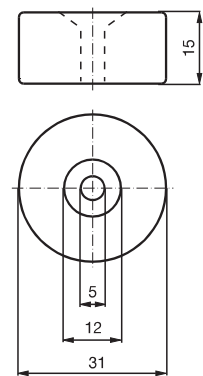
Connection



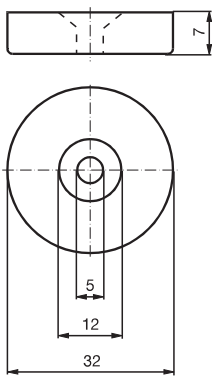
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Additional Information

Magnet DM 60-31-15



Magnet DM 25-32-07



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