

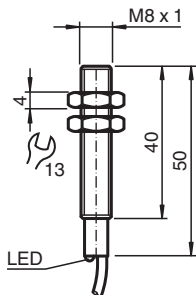
# Magnetic field sensor

## MB60-8GM50-E2

- Sensing range 60 mm based on DM60-31-15 magnet



### Dimensions



### Technical Data

#### General specifications

|                            |       |                             |
|----------------------------|-------|-----------------------------|
| Switching function         |       | Normally open (NO)          |
| Output type                |       | PNP                         |
| Rated operating distance   | $s_n$ | 60 mm                       |
| Installation               |       | flush in non-magnetic metal |
| Output polarity            |       | DC                          |
| Assured operating distance | $s_a$ | 10 ... 48.6 mm              |
| Output type                |       | 3-wire                      |

#### Nominal ratings

|                             |       |                            |
|-----------------------------|-------|----------------------------|
| Operating voltage           | $U_B$ | 10 ... 30 V                |
| Switching frequency         | $f$   | 0 ... 5000 Hz              |
| Hysteresis                  | $H$   | 1 ... 10 %                 |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |
| Voltage drop                | $U_d$ | $\leq 2.5$ V               |
| Operating current           | $I_L$ | 0 ... 200 mA               |
| No-load supply current      | $I_0$ | $\leq 10$ mA               |
| Switching state indicator   |       | LED, yellow                |

#### Functional safety related parameters

|                          |  |        |
|--------------------------|--|--------|
| MTTF <sub>d</sub>        |  | 3909 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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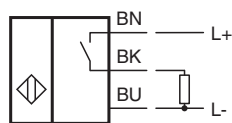
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PEPPERL+FUCHS

Technical Data

|                                          |   |                                                              |
|------------------------------------------|---|--------------------------------------------------------------|
| Compliance with standards and directives |   |                                                              |
| Standard conformity                      |   |                                                              |
| Standards                                |   | EN IEC 60947-5-2                                             |
| Approvals and certificates               |   |                                                              |
| Protection class                         |   | III                                                          |
| UL approval                              |   | cULus Listed, General Purpose                                |
| CCC approval                             |   | CCC approval / marking not required for products rated ≤36 V |
| Ambient conditions                       |   |                                                              |
| Ambient temperature                      |   | -25 ... 75 °C (-13 ... 167 °F)                               |
| Mechanical specifications                |   |                                                              |
| Connection type                          |   | cable                                                        |
| Housing material                         |   | Stainless steel 1.4404 / AISI 316L                           |
| Sensing face                             |   | PBT                                                          |
| Degree of protection                     |   | IP67                                                         |
| Cable                                    |   |                                                              |
| Material                                 |   | PUR                                                          |
| Core cross section                       |   | 0.14 mm²                                                     |
| Length                                   | L | 2 m                                                          |
| Dimensions                               |   |                                                              |
| Length                                   |   | 50 mm                                                        |
| Diameter                                 |   | 8 mm                                                         |

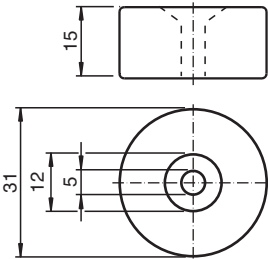
Connection



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Additional Information

Magnet DM 60-31-15



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