

# Magnetic field sensor

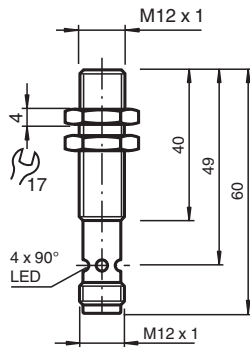
## MMB60-12GH50-E2-V1



- Stainless steel sensing face
- 3-wire DC



### Dimensions



### Technical Data

#### General specifications

|                          |                    |          |
|--------------------------|--------------------|----------|
| Switching function       | Normally open (NO) |          |
| Output type              |                    | PNP      |
| Rated operating distance | $s_n$              | 60 mm    |
| Installation             |                    | flush    |
| Output polarity          |                    | DC       |
| Actuating element        |                    | magnetic |
| Output type              |                    | 3-wire   |

#### Nominal ratings

|                             |       |                            |
|-----------------------------|-------|----------------------------|
| Operating voltage           | $U_B$ | 10 ... 30 V DC             |
| Switching frequency         | $f$   | 5000 Hz                    |
| Hysteresis                  | $H$   | 1 ... 10 %                 |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |
| Voltage drop                | $U_d$ | $\leq 2.5$ V DC            |
| Operating current           | $I_L$ | $\leq 200$ mA              |
| Current consumption         |       | $< 10$ mA                  |

#### Indicators/operating means

|                     |  |                             |
|---------------------|--|-----------------------------|
| Operation indicator |  | 4-way LED<br>Yellow: output |
|---------------------|--|-----------------------------|

#### Compliance with standards and directives

Release date: 2024-10-17 Date of issue: 2024-10-17 Filename: 278605\_eng.pdf

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

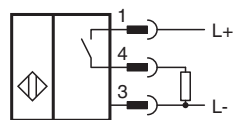
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

 **PEPPERL+FUCHS**

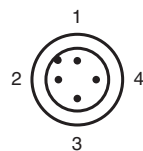
Technical Data

|                            |                                                              |  |
|----------------------------|--------------------------------------------------------------|--|
| Standard conformity        |                                                              |  |
| Standards                  | EN IEC 60947-5-2                                             |  |
| Approvals and certificates |                                                              |  |
| 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            | Connector plug                                               |  |
| Housing material           | stainless steel V4A                                          |  |
| Sensing face               | stainless steel V4A                                          |  |
| Degree of protection       | IP65 / IP67 /                                                |  |
| Connector                  |                                                              |  |
| Threading                  | M12 x 1                                                      |  |
| Number of pins             | 4                                                            |  |
| Dimensions                 |                                                              |  |
| Length                     | 60 mm                                                        |  |
| Diameter                   | 12 mm                                                        |  |

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Release date: 2024-10-17 Date of issue: 2024-10-17 Filename: 278605\_eng.pdf