



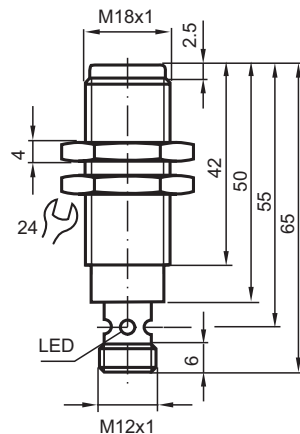
## Inductive sensor

NMB10-18GM65-E2-C4-V1

- 10 mm flush
- Stainless steel sensing face
- Increased operating distance
- Weld Immune



## Dimensions



## Technical Data

### General specifications

|                             |       |                                         |
|-----------------------------|-------|-----------------------------------------|
| Switching function          |       | Normally open (NO)                      |
| Output type                 |       | PNP                                     |
| Rated operating distance    | $s_n$ | 10 mm                                   |
| Installation                |       | flush (Requirements: see drawing below) |
| Output polarity             |       | DC                                      |
| Assured operating distance  | $s_a$ | 0 ... 8.1 mm                            |
| Actuating element           |       | Ferrous and nonferrous targets          |
| Reduction factor $r_{Al}$   |       | 0.4                                     |
| Reduction factor $r_{Cu}$   |       | 0.25                                    |
| Reduction factor $r_{304}$  |       | 0.85                                    |
| Reduction factor $r_{St37}$ |       | 1                                       |
| Output type                 |       | 3-wire                                  |

### Nominal ratings

|                             |       |                            |
|-----------------------------|-------|----------------------------|
| Operating voltage           | $U_B$ | 10 ... 30 V DC             |
| Switching frequency         | $f$   | 1 Hz                       |
| Hysteresis                  | $H$   | 3 ... 15 typ. 5 %          |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |

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

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PEPPERL+FUCHS

Technical Data

|                                |       |                              |
|--------------------------------|-------|------------------------------|
| Voltage drop                   | $U_d$ | $\leq 2\text{ V}$            |
| Operating current              | $I_L$ | 0 ... 200 mA                 |
| Current consumption            |       | $\leq 10\text{ mA}$          |
| Off-state current              | $I_r$ | $\leq 10\text{ }\mu\text{A}$ |
| No-load supply current         | $I_0$ | $\leq 15\text{ mA}$          |
| Operating voltage indicator    |       | LED, green                   |
| Switching state indicator      |       | Multihole-LED, yellow        |
| Mag. Field strength, AC fields |       | 250 mT                       |
| Mag. Field strength, DC fields |       | 250 mT                       |

Compliance with standards and directives

|                     |                  |
|---------------------|------------------|
| 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 $\leq 36\text{ V}$ |

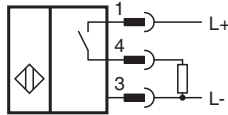
Ambient conditions

|                     |                                |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
|---------------------|--------------------------------|

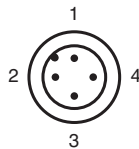
Mechanical specifications

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Connection type      | Connector plug M12 x 1 , 4-pin                   |
| Housing material     | Xylan coated - Stainless steel 1.4305 / AISI 303 |
| Sensing face         | Xylan coated - Stainless steel 1.4305 / AISI 303 |
| Degree of protection | IP67                                             |
| Dimensions           |                                                  |
| Length               | 65 mm                                            |
| Diameter             | 18 mm                                            |

Connection



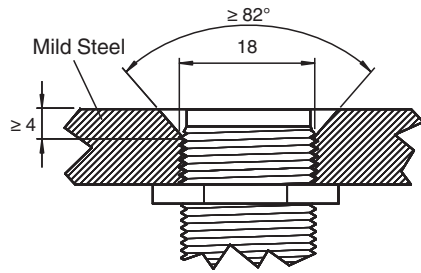
Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

## Mounting



Sensor face is flush with mounting surface.