



### Model Number

**NMB5-12GM65-E3-V1**

### Features

- 5 mm flush
- Stainless steel sensing face
- Increased operating distance

### Accessories

#### V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

#### V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

#### AB-12

Mounting aid

## Technical Data

### General specifications

|                             |       |   |
|-----------------------------|-------|---|
| Switching function          |       | Normally closed (NC)                    |
| Output type                 |       | PNP                                     |
| Rated operating distance    | $s_n$ | 5 mm                                    |
| Installation                |       | flush (Requirements: see drawing below) |
| Output polarity             |       | DC                                      |
| Assured operating distance  | $s_a$ | 0 ... 4.05 mm                           |
| Actuating element           |       | Ferrous and nonferrous targets          |
| Reduction factor $r_{Al}$   |       | 0.3                                     |
| Reduction factor $r_{Cu}$   |       | 0.2                                     |
| 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         | $f$   | 0 ... 360 Hz               |
| Hysteresis                  | $H$   | 3 ... 15 typ. 5 %          |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |
| Voltage drop                | $U_d$ | $\leq 2$ V DC              |
| Operating current           | $I_L$ | $\leq 200$ mA              |
| Off-state current           | $I_r$ | $\leq 10$ $\mu$ A          |
| No-load supply current      | $I_o$ | $\leq 15$ mA               |
| Operating voltage indicator |       | LED, green                 |
| Switching state indicator   |       | LED, yellow                |

### Ambient conditions

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

### Mechanical specifications

|                      |  |  |
|----------------------|--|--|
| Connection type      |  | Connector M12 x 1, 4-pin   |
| Housing material     |  | Stainless steel 1.4305 / AISI 303  |
| Sensing face         |  | Stainless steel 1.4305 / AISI 303  |
| Degree of protection |  | IP67 / IP68 / IP69K - cordset dependent according to cable specification |

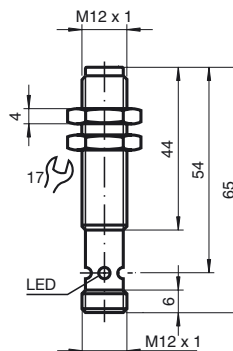
### Compliance with standards and directives

|                     |  |   |
|---------------------|--|---|
| Standard conformity |  |   |
| Standards           |  | EN 60947-5-2:2007<br>IEC 60947-5-2:2007 |

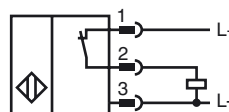
### Approvals and certificates

|              |  |  |
|--------------|--|--|
| UL approval  |  | cULus Listed, General Purpose                                      |
| CSA approval |  | cCSAus Listed, General Purpose                                     |
| CCC approval |  | CCC approval / marking not required for products rated $\leq 36$ V |

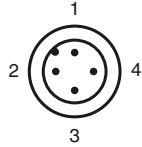
## Dimensions



## Electrical Connection

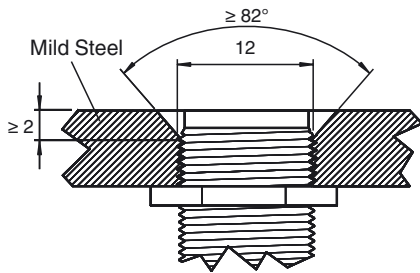


Pinout



Wire colors in accordance with EN 60947-5-2

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



Sensor face is flush with mounting surface.



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