



### Model Number

**NMB3-8GM35-E2-150MM-V1**

### Features

- 3 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

## Technical Data

### General specifications

|                            |       |                |
|----------------------------|-------|----------------|
| Switching element function |       | PNP NO contact |
| Rated operating distance   | $s_n$ | 3 mm           |
| Installation               |       | flush          |
| Output polarity            |       | DC             |
| Assured operating distance | $s_a$ | 0 ... 2.43 mm  |
| Reduction factor $r_{Al}$  |       | 0.3            |
| Reduction factor $r_{Cu}$  |       | 0.2            |
| Reduction factor $r_{304}$ |       | 0.7            |

### Nominal ratings

|                             |       |  |
|-----------------------------|-------|--|
| Operating voltage           | $U_B$ | 10 ... 30 V                                |
| Switching frequency         | $f$   | 0 ... 360 Hz                               |
| Hysteresis                  | $H$   | 5 ... 15 typ. 10 %                         |
| Reverse polarity protection |       | yes  |
| Short-circuit protection    |       | yes  |
| Voltage drop                | $U_d$ | $\leq 2$ V                                 |
| Operating current           | $I_L$ | 0 ... 100 mA                               |
| Off-state current           | $I_r$ | 0 ... 10 $\mu$ A typ. 0.1 $\mu$ A at 25 °C |
| No-load supply current      | $I_0$ | $\leq 10$ mA                               |

### Functional safety related parameters

|                                |        |
|--------------------------------|--------|
| MTTF <sub>d</sub>              | 2000 a |
| Mission Time (T <sub>M</sub> ) | 20 a   |
| Diagnostic Coverage (DC)       | 0 %    |

### Indicators/operating means

|                     |                |
|---------------------|----------------|
| Operation indicator | Dual LED       |
|                     | Green: power   |
|                     | Yellow: output |

### Standard conformity

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

### Ambient conditions

|                     |                                |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 75 °C (-13 ... 167 °F) |
|---------------------|--------------------------------|

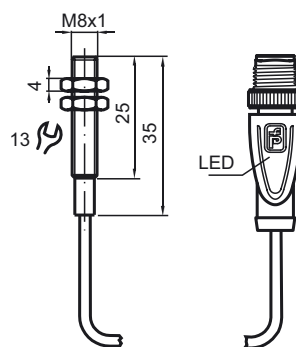
### Mechanical specifications

|                      |                                     |
|----------------------|-------------------------------------|
| Connection type      | Cable connector M12 x 1, PUR 150 mm |
| Housing material     | Stainless steel 1.4305 / AISI 303   |
| Sensing face         | Stainless steel 1.4305 / AISI 303   |
| Degree of protection | IP67                                |

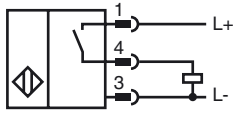
### Approvals and certificates

|              |  |
|--------------|--|
| 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 |

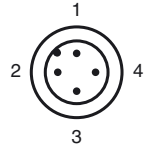
## Dimensions



**Electrical Connection**



**Pinout**



Wire colors in accordance with EN 60947-5-2

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