

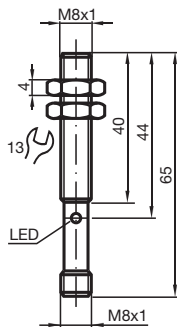
# Inductive sensor NMB3-8GM65-E2-V3



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



## Dimensions



## Technical Data

### General specifications

|                             |       |                    |
|-----------------------------|-------|--------------------|
| Switching function          |       | Normally open (NO) |
| Output type                 |       | PNP                |
| 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 $r_{304}$  |       | 0.8                |
| Reduction factor $r_{Si37}$ |       | 1                  |

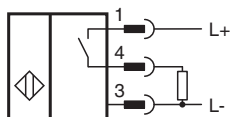
### Nominal ratings

|                   |       |                |
|-------------------|-------|----------------|
| Operating voltage | $U_B$ | 10 ... 30 V DC |
|-------------------|-------|----------------|

Technical Data

|                                   |                |                                                              |
|-----------------------------------|----------------|--------------------------------------------------------------|
| Switching frequency               | f              | 0 ... 360 Hz                                                 |
| Hysteresis                        | H              | 5 ... 15 typ. 10 %                                           |
| Reverse polarity protection       |                | yes                                                          |
| Short-circuit protection          |                | yes                                                          |
| Voltage drop                      | U <sub>d</sub> | ≤ 2 V                                                        |
| Operating current                 | I <sub>L</sub> | ≤ 100 mA                                                     |
| Current consumption               |                | ≤ 10 mA                                                      |
| Off-state current                 | I <sub>r</sub> | ≤ 10 µA                                                      |
| No-load supply current            | I <sub>0</sub> | ≤ 15 mA                                                      |
| <b>Indicators/operating means</b> |                |                                                              |
| Operation indicator               |                | LED red: output                                              |
| <b>Standard conformity</b>        |                |                                                              |
| Standards                         |                | EN 60947-5-2:2007<br>IEC 60947-5-2:2007                      |
| <b>Approvals and certificates</b> |                |                                                              |
| UL approval                       |                | cULus Listed, General Purpose                                |
| CSA approval                      |                | cCSAus Listed, General Purpose                               |
| CCC approval                      |                | CCC approval / marking not required for products rated ≤36 V |
| <b>Ambient conditions</b>         |                |                                                              |
| Ambient temperature               |                | 0 ... 75 °C (32 ... 167 °F)                                  |
| <b>Mechanical specifications</b>  |                |                                                              |
| Connection type                   |                | Connector M8 x 1 , 3-pin                                     |
| Housing material                  |                | Stainless steel 1.4305 / AISI 303                            |
| Sensing face                      |                | Stainless steel 1.4305 / AISI 303                            |
| Degree of protection              |                | IP67                                                         |

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

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Accessories

|                                                                                   |              |                                                   |
|-----------------------------------------------------------------------------------|--------------|---------------------------------------------------|
|  | V3-WM-2M-PUR | Female cordset single-ended, M8, 3-pin, PUR cable |
|-----------------------------------------------------------------------------------|--------------|---------------------------------------------------|

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