



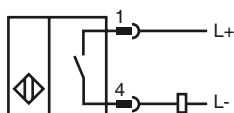
**Model Number**

NCB10-30GM40-Z3-V1

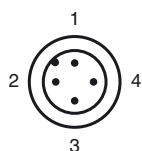
**Features**

- 10 mm flush
- 2-wire DC

**Connection**



**Pinout**



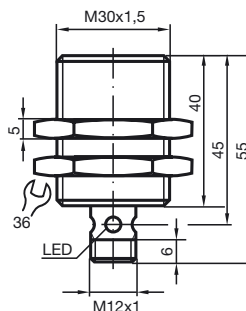
Wire colors in accordance with EN 60947-5-2

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

**Accessories**

- BF 30**  
Mounting flange, 30 mm
- V1-G**  
4-pin, M12 female field-attachable connector
- V1-W**  
4-pin, M12 female field-attachable connector

**Dimensions**



**Technical Data**

| General specifications                   |       |   |
|--|-------|---|
| Switching element function               | DC    | NO                                      |
| Rated operating distance                 | $s_n$ | 10 mm                                   |
| Installation                             |       | flush                                   |
| Output polarity                          |       | DC                                      |
| Assured operating distance               | $s_a$ | 0 ... 8.1 mm                            |
| Reduction factor $r_{Al}$                |       | 0.32                                    |
| Reduction factor $r_{Cu}$                |       | 0.28                                    |
| Reduction factor $r_{304}$               |       | 0.7                                     |
| Nominal ratings                          |       |   |
| Operating voltage                        | $U_B$ | 5 ... 60 V                              |
| Switching frequency                      | $f$   | 0 ... 150 Hz                            |
| Hysteresis                               | $H$   | 1 ... 15 typ. 5 %                       |
| Reverse polarity protected               |       | tolerant                                |
| Short-circuit protection                 |       | pulsing                                 |
| Voltage drop                             | $U_d$ | $\leq 5$ V                              |
| Operating current                        | $I_L$ | 2 ... 100 mA                            |
| Off-state current                        | $I_r$ | $\leq 0.5$ mA                           |
| Indication of the switching state        |       | Multihole-LED, yellow                   |
| Functional safety related parameters     |       |   |
| MTTF <sub>d</sub>                        |       | 1830 a                                  |
| Mission Time ( $T_M$ )                   |       | 20 a                                    |
| Diagnostic Coverage (DC)                 |       | 0 %                                     |
| Ambient conditions                       |       |   |
| Ambient temperature                      |       | -25 ... 70 °C (-13 ... 158 °F)          |
| Mechanical specifications                |       |   |
| Connection type                          |       | Device connector M12 x 1 , 4-pin        |
| Housing material                         |       | Stainless steel 1.4305 / AISI 303       |
| Sensing face                             |       | PBT                                     |
| Protection degree                        |       | IP67                                    |
| 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          |

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