



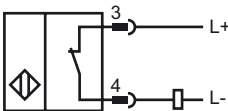
## Model Number

NCB1,5-8GM50-Z1-V3

## Features

- 1.5 mm embeddable
- 2-wire DC

## Connection



## Pinout



Wire colors in accordance with EN 60947-5-2

|   |    |
|---|----|
| 1 | BN |
| 3 | BU |
| 4 | BK |

## Accessories

### BF 8

Mounting flange, 8 mm

### V3-GM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

### EXG-08

Quick mounting bracket with dead stop

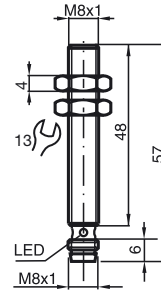
### V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

### V3-GM

Female connector, M8, 3-pin, field attachable

## Dimensions



## Technical Data

### General specifications

|                            |       |               |
|----------------------------|-------|---------------|
| Switching element function | DC    | NC            |
| Rated operating distance   | $s_n$ | 1.5 mm        |
| Installation               |       | embeddable    |
| Output polarity            |       | DC            |
| Assured operating distance | $s_a$ | 0 ... 1.21 mm |
| Reduction factor $r_{Al}$  |       | 0.22          |
| Reduction factor $r_{Cu}$  |       | 0.16          |
| Reduction factor $r_{V2A}$ |       | 0.64          |

### Nominal ratings

|                                   |       |                   |
|-----------------------------------|-------|-------------------|
| Operating voltage                 | $U_B$ | 5 ... 60 V        |
| Switching frequency               | $f$   | 0 ... 1200 Hz     |
| Hysteresis                        | $H$   | 1 ... 10 typ. 5 % |
| Reverse polarity protected        |       | tolerant          |
| Short-circuit protection          |       | pulsing           |
| Voltage drop                      | $U_d$ | $\leq 5$ V        |
| Operating current                 | $I_L$ | 2 ... 100 mA      |
| Lowest operating current          | $I_m$ | 2 mA              |
| Off-state current                 | $I_r$ | 0 ... 0.5 mA typ. |
| Indication of the switching state |       | LED, yellow       |

### Ambient conditions

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

### Mechanical specifications

|                   |                                   |
|-------------------|-----------------------------------|
| Connection type   | Device connector M8 x 1, 3-pin    |
| Housing material  | Stainless steel 1.4305 / AISI 303 |
| Sensing face      | LCP                               |
| 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                    |
| CCC approval | Certified by China Compulsory Certification (CCC) |