



## Model Number

**NCB1,5-8GM40-Z0**

## Features

- 1.5 mm flush
- 2-wire DC

## Accessories

### BF 8

Mounting flange, 8 mm

### EXG-08

Quick mounting bracket with dead stop

## Technical Data

### General specifications

|                            |                             |
|----------------------------|-----------------------------|
| Switching function         | Normally open (NO)          |
| Output type                | Two-wire                    |
| Rated operating distance   | $s_n$ 1.5 mm                |
| Installation               | flush                       |
| Output polarity            | DC                          |
| Assured operating distance | $s_a$ 0 ... 1.21 mm         |
| Actual operating distance  | $s_r$ 1.35 ... 1.65 mm typ. |
| Reduction factor $r_{AI}$  | 0.22                        |
| Reduction factor $r_{Cu}$  | 0.16                        |
| Reduction factor $r_{304}$ | 0.64                        |
| Output type                | 2-wire                      |

### Nominal ratings

|                             |       |                           |
|-----------------------------|-------|---------------------------|
| Operating voltage           | $U_B$ | 5 ... 60 V                |
| Switching frequency         | $f$   | 0 ... 1200 Hz             |
| Hysteresis                  | $H$   | 1 ... 10 typ. 5 %         |
| Reverse polarity protection |       | reverse polarity tolerant |
| Short-circuit protection    |       | pulsing                   |
| Voltage drop                | $U_d$ | ≤ 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.         |
| Switching state indicator   |       | LED, yellow               |

### Functional safety related parameters

|                          |        |
|--------------------------|--------|
| MTTF <sub>d</sub>        | 1476 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      | cabl PUR , 2 m                    |
| Core cross-section   | 0.14 mm <sup>2</sup>              |
| Housing material     | Stainless steel 1.4305 / AISI 303 |
| Sensing face         | LCP                               |
| Degree of protection | IP67                              |

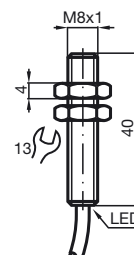
### Compliance with standards and directives

|                     |                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------|
| Standard conformity |                                                                                             |
| Standards           | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012 |

### Approvals and certificates

|              |                                                   |
|--------------|---------------------------------------------------|
| UL approval  | cULus Listed, General Purpose                     |
| CSA approval | cCSAus Listed, General Purpose                    |
| CCC approval | Certified by China Compulsory Certification (CCC) |

## Dimensions



## Electrical Connection

