

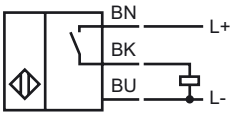
## Model Number

**NBB2-8GM40-E2**

## Features

- **Basic series**
- **2 mm embeddable**
- **Increased operating distance**

## Connection

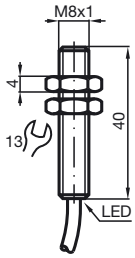



## Accessories

**BF 8**
Mounting flange, 8 mm

**EXG-08**
Quick mounting bracket with dead stop

## Dimensions




## Technical Data

| | | |
|---|---|---|
| **General specifications** | | |
| Switching element function | | PNP NO |
| Rated operating distance | $s_n$ | 2 mm |
| Installation | | embeddable |
| Output polarity | | DC |
| Assured operating distance | $s_a$ | 0 ... 1.62 mm |
| Reduction factor $r_{Al}$ | | 0.45 |
| Reduction factor $r_{Cu}$ | | 0.4 |
| Reduction factor $r_{V2A}$ | | 0.75 |
| **Nominal ratings** | | |
| Operating voltage | $U_B$ | 10 ... 30 V |
| Switching frequency | f | 0 ... 3000 Hz |
| Hysteresis | H | typ. 5% |
| Reverse polarity protected | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | $U_d$ | ≤ 3 V |
| Operating current | $I_L$ | 0 ... 100 mA |
| Off-state current | $I_r$ | 0 ... 0.5 mA typ. 0.1 µA at 25 °C |
| No-load supply current | $I_0$ | ≤ 15 mA |
| Indication of the switching state | | LED, yellow |
| **Functional safety related parameters** | | |
| $MTTF_d$ | | 2790 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 | | cable PVC , 2 m |
| Core cross-section | | 0.14 $mm^2$ |
| Housing material | | brass, nickel-plated |
| 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 | | Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval. |

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