



CE

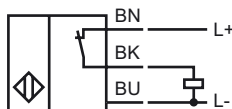
Model Number

NBB2-8GS30-E3

Features

- 2 mm flush
- Stainless steel version
- Extended temperature range

Connection



Accessories

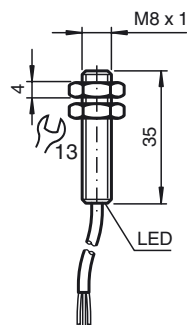
BF 8

Mounting flange, 8 mm

EXG-08

Quick mounting bracket with dead stop

Dimensions



Technical Data

General specifications

| | | |
|------------------------------|-------|---|
| Switching element function | PNP | NC |
| Rated operating distance | s_n | 2 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 1.62 mm |
| Actuating element | | structural steel, e. g. 1.0037, SR235JR (formerly St37-2) 8 mm x 8 mm x 1 mm |
| Reduction factor r_{Al} | | 0.4 |
| Reduction factor r_{Cu} | | 0.35 |
| Reduction factor r_{304} | | 0.7 |
| Reduction factor r_{Brass} | | 0.45 |

Nominal ratings

| | | |
|-----------------------------------|-------|------------------|
| Operating voltage | U_B | 10 ... 30 V |
| Switching frequency | f | 0 ... 2500 Hz |
| Hysteresis | H | 0.06 ... 0.44 mm |
| Reverse polarity protected | | yes |
| Short-circuit protection | | yes |
| Overload resistance | | yes |
| Wire breakage protection | | yes |
| Inductive overvoltage protection | | yes |
| Surge suppression | | yes |
| Ripple | | 10 % |
| Voltage drop | U_d | ≤ 2.5 V |
| Repeat accuracy | | 0.1 mm |
| Operating current | I_L | 0 ... 200 mA |
| Off-state current | I_r | 0.01 mA |
| No-load supply current | I_0 | ≤ 5 mA |
| Indication of the switching state | | LED, yellow |

Functional safety related parameters

| | |
|--------------------------|--------|
| MTTF _d | 3250 a |
| Mission Time (T_M) | 20 a |
| Diagnostic Coverage (DC) | 0 % |

Ambient conditions

| | |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 85 °C (-13 ... 185 °F) |
| Storage temperature | -40 ... 85 °C (-40 ... 185 °F) |

Mechanical specifications

| | |
|--------------------|-----------------------------------|
| Connection type | cable PUR, 2 m |
| Core cross-section | 0.25 mm ² |
| Housing material | Stainless steel 1.4305 / AISI 303 |
| Sensing face | PBT |
| Protection degree | IP67 |
| Mass | 58 g |

Compliance with standards and directives

| | |
|---------------------|---|
| Standard conformity | |
| Standards | EN 60947-5-2:2007 IEC 60947-5-2:2007 |

Approvals and certificates

| | |
|--------------|--|
| 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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