



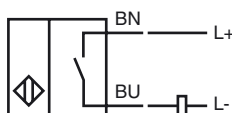
Model Number

NBB10-30GM40-Z0

Features

- 10 mm flush
- 2-wire DC

Connection



Accessories

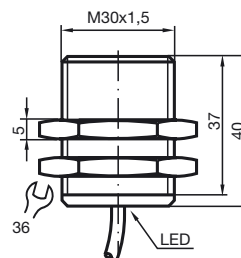
BF 30

Mounting flange, 30 mm

EXG-30

Quick mounting bracket with dead stop

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} | | 0.3 |
| Reduction factor r_{Cu} | | 0.25 |
| Reduction factor r_{304} | | 0.7 |

Nominal ratings

| | | |
|-----------------------------------|-------|---------------------------|
| Operating voltage | U_B | 5 ... 60 V |
| Switching frequency | f | 0 ... 150 Hz |
| Hysteresis | H | 1 ... 10 typ. 5 % |
| Reverse polarity protected | | 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. |
| Indication of the switching state | | all direction LED, yellow |

Functional safety related parameters

| | |
|--------------------------|--------|
| MTTF _d | 1710 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 | 0.34 mm ² |
| Housing material | brass, nickel-plated |
| Sensing face | PBT |
| Protection degree | IP67 |

Compliance with standards and directives

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