

Inductive sensor NBB10-30GM50-E2-C-V1

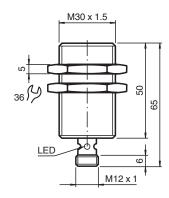
- 10 mm flush
- Weld Immune
- Slag repellant coatings







Dimensions



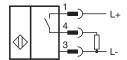
Technical Data

| General specifications | | |
|-----------------------------------|----------------|--|
| Switching function | | Normally open (NO) |
| Output type | | PNP |
| Rated operating distance | Sn | 10 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | Sa | 0 8.1 mm |
| Reduction factor r _{AI} | | 0.3 |
| Reduction factor r _{Cu} | | 0.2 |
| Reduction factor r ₃₀₄ | | 0.6 |
| Output type | | 3-wire |
| Nominal ratings | | |
| Operating voltage | U_B | 10 30 V DC |
| Switching frequency | f | 0 10 Hz |
| Hysteresis | Н | typ. 5% |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | U_{d} | ≤3 V |
| Operating current | IL | 0 200 mA |
| Off-state current | I_r | $0 \dots 0.5$ mA typ. $0.1~\mu A$ at $25~^{\circ} C$ |
| No-load supply current | I_0 | ≤ 17 mA |

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| Technical Data | | |
|--|---|--|
| Constant magnetic field | В | 100 mT |
| Alternating magnetic field | В | 100 mT |
| Switching state indicator | | Multihole-LED, yellow |
| Functional safety related parameters | | |
| MTTF _d | | 1835 a |
| Mission Time (T _M) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |
| Indicators/operating means | | |
| Operation indicator | | 4-way dual LED Green: power Yellow: output |
| Compliance with standards and directives | | |
| Standard conformity | | |
| Standards | | EN IEC 60947-5-2 |
| Approvals and certificates | | |
| UL approval | | cULus Listed Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 30 V DC Output Switching Current: 200 mA |
| CCC approval | | CCC approval / marking not required for products rated ≤36 V |
| Ambient conditions | | |
| Ambient temperature | | -25 70 °C (-13 158 °F) |
| Mechanical specifications | | |
| Connection type | | Connector plug |
| Housing material | | Brass, PTFE coated |
| Sensing face | | PPS |
| Degree of protection | | IP67 |
| Connector | | |
| Threading | | M12 x 1 |
| Number of pins | | 4 |
| Dimensions | | |
| Length | | 50 mm |
| Diameter | | 30 mm |

Connection



Connection Assignment





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Connection Assignment

Wire colors in accordance with EN 60947-5-2

BN (brown) 2 WH (white) 3 BU (blue) 4 BK (black)