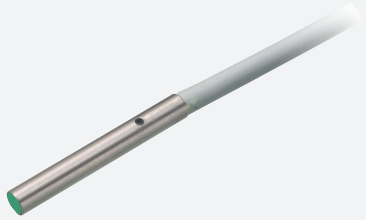
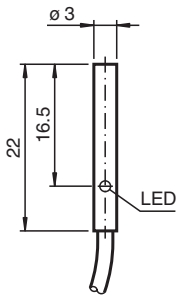
# Inductive sensor

## NBB0,6-3M22-E3-Y70174941



- 0.6 mm flush
- Miniature design

## Dimensions




## Technical Data

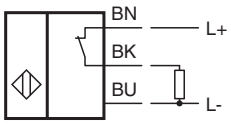
| | | |
|---|---|---|
| **General specifications** | | |
| Switching function | | Normally closed (NC) |
| Output type | | PNP |
| Rated operating distance | $s_n$ | 0.6 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | $s_a$ | 0 ... 0.486 mm |
| Reduction factor $r_{Al}$ | | 0.4 |
| Reduction factor $r_{Cu}$ | | 0.29 |
| Reduction factor $r_{304}$ | | 0.76 |
| Reduction factor $r_{Brass}$ | | 0.46 |
| Output type | | 3-wire |
| **Nominal ratings** | | |
| Operating voltage | $U_B$ | 10 ... 30 V |
| Switching frequency | f | 0 ... 1300 Hz |
| Hysteresis | H | typ. 5% |
| Reverse polarity protection | | 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 ... 0.1 mA typ. at 25 °C |
| No-load supply current | $I_0$ | ≤ 10 mA |

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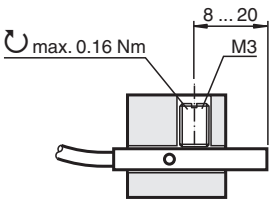
## Technical Data

| | | |
|---|---|---|
| Switching state indicator | | LED, yellow |
| **Compliance with standards and directives** | | |
| Standard conformity | | |
| Standards | | EN IEC 60947-5-2 |
| **Approvals and certificates** | | |
| UL approval | | cULus Listed<br>Load Type: General Purpose<br>Circuitry: Class 2 Power Source<br>Enclosure Type Rating: Type 1<br>Supply/Switching Voltage: 30 V DC<br>Output Switching Current: 100 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 | | cable |
| Housing material | | Stainless steel 1.4305 / AISI 303 |
| Sensing face | | PBT |
| Degree of protection | | IP67 |
| Cable | | |
| Cable diameter | | 2.6 mm ± 0.1 mm |
| Bending radius | | > 10 x cable diameter |
| Material | | PUR |
| Color | | grey |
| Number of cores | | 3 |
| Core cross section | | 0.055 mm$^2$ |
| Length | L | 2 m |
| Dimensions | | |
| Length | | 22 mm |
| Diameter | | 3 mm |

## Connection Assignment




## Mounting




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