

Inductive sensor

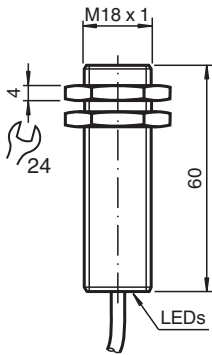
NBB5-18GM60-WS-10M



- 5 mm flush
- 10 m cable length



Dimensions



Technical Data

General specifications

| | | |
|----------------------------|-------|--------------------------|
| Switching function | | Normally open (NO) |
| Output type | | Two-wire |
| Rated operating distance | s_n | 5 mm |
| Installation | | flush |
| Output polarity | | AC |
| Assured operating distance | s_a | 0 ... 4.05 mm |
| Actual operating distance | s_r | 4.5 ... 5.5 mm typ. 5 mm |
| Reduction factor r_{Al} | | 0.2 |
| Reduction factor r_{Cu} | | 0.2 |
| Reduction factor r_{304} | | 0.6 |
| Output type | | 2-wire |

Nominal ratings

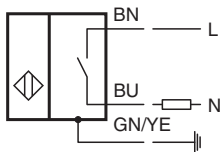
| | | |
|-----------------------------------|-------|--|
| Operating voltage | U_B | 20 ... 253 V |
| Switching frequency | f | 0 ... 20 Hz |
| Hysteresis | H | typ. 6 % |
| Voltage drop | U_d | < 5 V ($I_L > 50$ mA); < 8 V ($I_L < 50$ mA) |
| Momentary current (20 ms, 0.1 Hz) | | 0 ... 1600 mA |
| Operating current | I_L | 5 ... 200 mA |
| Off-state current | I_r | 0 ... 1.7 mA typ. |

Release date: 2025-06-05 Date of issue: 2025-06-05 Filename: 035317_eng.pdf

Technical Data

| | | |
|---|-------|---|
| Time delay before availability | t_v | ≤ 30 ms |
| Operating voltage indicator | | LED, green |
| 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, General Purpose |
| CSA approval | | cCSAus Listed, General Purpose |
| CCC approval | | Certified by China Compulsory Certification (CCC) |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | | -25 ... 85 °C (-13 ... 185 °F) |
| Mechanical specifications | | |
| Connection type | | cable |
| Housing material | | brass, nickel-plated |
| Sensing face | | PBT |
| Degree of protection | | IP67 |
| Cable | | |
| Wire end ferrules | | yes |
| Cable diameter | | 4.6 mm \pm 0.2 mm |
| Bending radius | | > 10 x cable diameter |
| Material | | PVC |
| Color | | grey |
| Number of cores | | 3 |
| Core cross section | | 0.34 mm ² |
| Length | L | 10 m |
| Dimensions | | |
| Length | | 60 mm |
| Diameter | | 18 mm |
| Note | | ¹⁾ In the temperature range below 0 °C, permissible operating voltage U_b 80...253 V Safety fuse ≤ 0.8 A (quick-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly. |

Connection



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