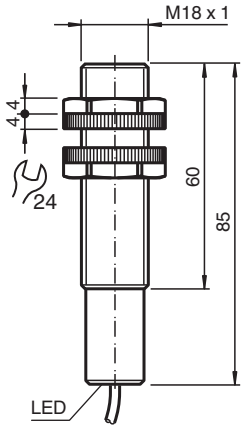


# Inductive sensor

# NBN8-18GK60-E2-10M

- 8 mm non-flush
- With increased sealing, protection class IP68 / IP69K

## Dimensions




## Technical Data

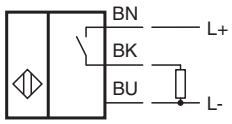
| | | |
|---|---|---|
| **General specifications** | | |
| Switching function | | Normally open (NO) |
| Output type | | PNP |
| Rated operating distance | $s_n$ | 8 mm |
| Installation | | non-flush |
| Output polarity | | DC |
| Assured operating distance | $s_a$ | 0 ... 6.48 mm |
| Reduction factor $r_{Al}$ | | 0.5 |
| Reduction factor $r_{Cu}$ | | 0.4 |
| Reduction factor $r_{304}$ | | 0.7 |
| Output type | | 3-wire |
| **Nominal ratings** | | |
| Operating voltage | $U_B$ | 10 ... 30 V |
| Switching frequency | f | 0 ... 500 Hz |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | $U_d$ | ≤ 3 V |
| Operating current | $I_L$ | 0 ... 200 mA |

Release date: 2024-05-27 Date of issue: 2024-05-29 Filename: 231605_eng.pdf

## Technical Data

| | | |
|---|---|---|
| Off-state current | $I_r$ | 0 ... 0.5 mA typ. 0.1 µA at 25 °C |
| No-load supply current | $I_0$ | ≤ 15 mA |
| Switching state indicator | | LED, yellow |
| **Compliance with standards and directives** | | |
| Standard conformity | | |
| Standards | | EN IEC 60947-5-2 |
| **Ambient conditions** | | |
| Ambient temperature | | -25 ... 70 °C (-13 ... 158 °F) |
| **Mechanical specifications** | | |
| Connection type | | cable PVC , 10 m |
| Core cross section | | 0.34 mm² |
| Housing material | | PBT |
| Sensing face | | PBT |
| Degree of protection | | IP68 / IP69K |
| Dimensions | | |
| Length | | 85 mm |
| Diameter | | 18 mm |

## Connection




Release date: 2024-05-27 Date of issue: 2024-05-29 Filename: 231605_eng.pdf