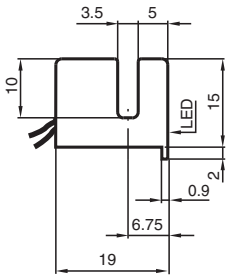


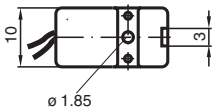

# Inductive slot sensor

## SB3,5-E2-BU

- 3.5 mm slot width
- Basic series

## Dimensions




## Technical Data

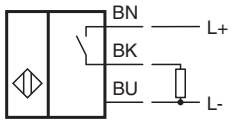
| | | |
|---|---|---|
| **General specifications** | | |
| Switching function | | Normally open (NO) |
| Output type | | PNP |
| Slot width | | 3.5 mm |
| Depth of immersion (lateral) | | 5 ... 7 typ. 6 mm |
| Output polarity | | DC |
| Output type | | 3-wire |
| **Nominal ratings** | | |
| Operating voltage | $U_B$ | 10 ... 30 V |
| Switching frequency | f | 0 ... 3000 Hz |
| Hysteresis | H | 0.1 ... 0.4 mm |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | $U_d$ | ≤ 3 V |
| Operating current | $I_L$ | 0 ... 100 mA |
| No-load supply current | $I_0$ | ≤ 7 mA |
| Switching state indicator | | LED, yellow |

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## Technical Data

| | | |
|---|---|---|
| **Functional safety related parameters** | | |
| $MTTF_d$ | | 2590 a |
| Mission Time ($T_M$) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |
| **Compliance with standards and directives** | | |
| Standard conformity | | |
| Standards | | EN IEC 60947-5-2 |
| **Approvals and certificates** | | |
| UL approval | | cULus Listed, General Purpose |
| 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 | | flexible leads LiY , 500 mm |
| Core cross section | | 0.14 $mm^2$ |
| Housing material | | PBT |
| Degree of protection | | IP67 |
| Dimensions | | |
| Height | | 15 mm |
| Width | | 10 mm |
| Length | | 19.5 mm |

## Connection




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