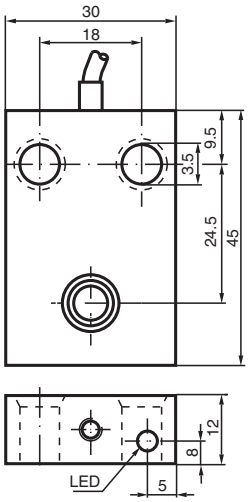
# Inductive sensor

## NJ6-F-E2-5M

- Comfort series
- 6 mm flush
- 3-wire DC

## Dimensions




## Technical Data

| | | |
|---|---|---|
| **General specifications** | | |
| Switching function | | Normally open (NO) |
| Output type | | PNP |
| Rated operating distance | $s_n$ | 6 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | $s_a$ | 0 ... 4.8 mm |
| Actual operating distance | $s_r$ | 5.4 ... 6.6 mm typ. |
| Reduction factor $r_{Al}$ | | 0.22 |
| Reduction factor $r_{Cu}$ | | 0.2 |
| Reduction factor $r_{304}$ | | 0.7 |
| Output type | | 3-wire |
| **Nominal ratings** | | |
| Operating voltage | $U_B$ | 10 ... 60 V |
| Switching frequency | f | 0 ... 500 Hz |
| Hysteresis | H | 0 ... 0.3 typ. 0.1 % |
| Reverse polarity protection | | reverse polarity protected |

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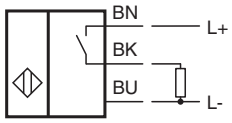
## Technical Data

| | | |
|---|---|---|
| Short-circuit protection | | pulsing |
| Voltage drop | $U_d$ | ≤ 3 V |
| Operating current | $I_L$ | 0 ... 200 mA |
| No-load supply current | $I_0$ | ≤ 20 mA |
| Time delay before availability | $t_v$ | ≤ 15 ms |
| Switching state indicator | | LED, yellow |
| **Functional safety related parameters** | | |
| $MTTF_d$ | | 990 a |
| Mission Time ($T_M$) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |
| **Compliance with standards and directives** | | |
| Standard conformity | | |
| Standards | | EN 60947-5-2:2007<br>IEC 60947-5-2:2007 |
| **Approvals and certificates** | | |
| UL approval | | cULus Listed, General Purpose |
| CCC approval | | Certified by China Compulsory Certification (CCC) |
| **Ambient conditions** | | |
| Ambient temperature | | -25 ... 70 °C (-13 ... 158 °F) |
| **Mechanical specifications** | | |
| Connection type | | cable PUR , 5 m |
| Core cross section | | 0.34 $mm^2$ |
| Housing material | | PBT |
| Sensing face | | PBT |
| Degree of protection | | IP67 |

## Connection

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