

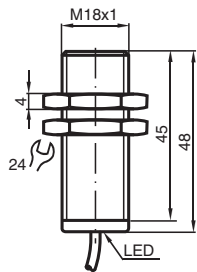
Inductive sensor

NCB8-18GM50-Z4

- 8 mm flush
- 2-wire DC
- Increased operating distance



Dimensions



Technical Data

General specifications

| | | |
|------------------------------|-------|--------------------|
| Switching function | | Normally open (NO) |
| Output type | | Two-wire |
| Rated operating distance | s_n | 8 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 6.48 mm |
| Reduction factor r_{Al} | | 0.4 |
| Reduction factor r_{Cu} | | 0.4 |
| Reduction factor r_{304} | | 0.7 |
| Reduction factor r_{Brass} | | 0.5 |
| Output type | | 2-wire |

Nominal ratings

| | | |
|-----------------------------|-------|-----------------------------|
| Operating voltage | U_B | 3.5 ... 30 V |
| Switching frequency | f | 0 ... 1000 Hz |
| Hysteresis | H | typ. 5% |
| Reverse polarity protection | | reverse polarity-conductive |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 3.5 V |
| Temperature drift | | $\pm 15\%$ |
| Operating current | I_L | 2 ... 100 mA |
| Off-state current | I_r | typ. 0.8 mA |

Release date: 2023-12-13 Date of issue: 2023-12-13 Filename: 105930_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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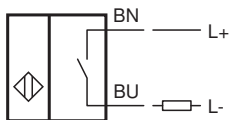
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Technical Data

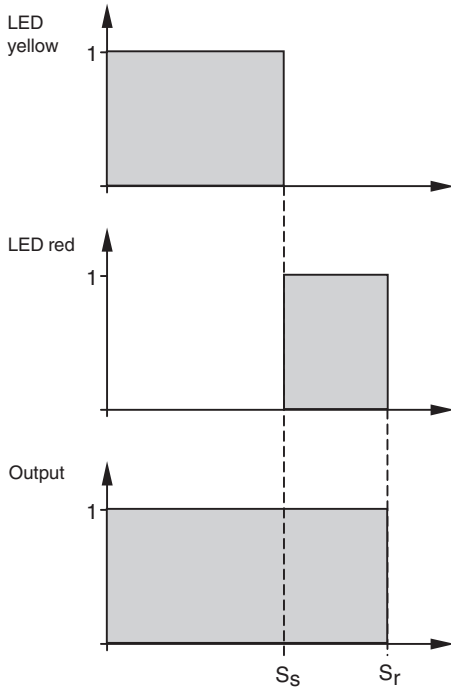
| | |
|---|---|
| Switching state indicator | LED, yellow |
| Stability alarm indicator | LED, red |
| Stability control-switch point | 0,8 s _r ... 0,9 s _r |
| Functional safety related parameters | |
| MTTF _d | 1370 a |
| Mission Time (T _M) | 20 a |
| Diagnostic Coverage (DC) | 0 % |
| Compliance with standards and directives | |
| Standard conformity | |
| Standards | EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012 |
| 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) |
| Storage temperature | -25 ... 85 °C (-13 ... 185 °F) |
| Mechanical specifications | |
| Connection type | cable PVC , 2 m |
| Core cross section | 0.34 mm ² |
| Housing material | brass, nickel-plated |
| Sensing face | PBT |
| Degree of protection | IP67 |

Connection



Operation

Correlation between output signal/LED-function and stable operating distance s_s /effective operating distance s_r : (s_s typ. 80 % of s_r)



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