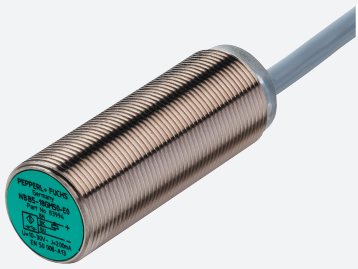


# Inductive sensor

## NCB8-18GM50-Z5



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



### Technical Data

#### General specifications

|                              |       |                      |
|------------------------------|-------|----------------------|
| Switching function           |       | Normally closed (NC) |
| Output type                  |       | Two-wire             |
| Rated operating distance     | $s_n$ | 8 mm                 |
| Installation                 |       | flush                |
| Output polarity              |       | DC                   |
| Assured operating distance   | $s_a$ | 0 ... 6.1 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                  |

#### Nominal ratings

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

#### Functional safety related parameters

|                          |  |        |
|--------------------------|--|--------|
| MTTF <sub>d</sub>        |  | 1530 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                                      |
| CSA approval |  | cCSAus Listed, General Purpose                                     |
| CCC approval |  | CCC approval / marking not required for products rated $\leq 36$ V |

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

## Technical Data



### 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 <sup>2</sup> |
| Housing material     | brass, nickel-plated |
| Sensing face         | PBT                  |
| Degree of protection | IP67                 |

## Accessories

|   |               |                                       |
|---|---------------|---------------------------------------|
|  | <b>BF 18</b>  | Mounting flange, 18 mm                |
|  | <b>EXG-18</b> | Quick mounting bracket with dead stop |