

## Inductive sensor

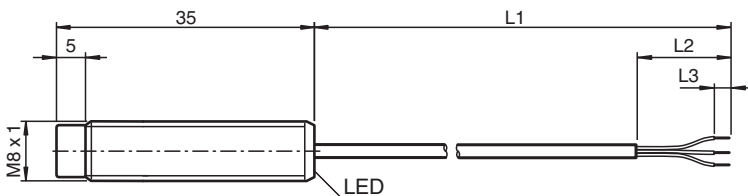
### NBN2,5-8GM35-E1L-0,5M-Y



- 2.5 mm non-flush
- Magnetic field resistant



## Dimensions



## Technical Data

### General specifications

|                            |                      |               |
|----------------------------|----------------------|---------------|
| Switching function         | Normally closed (NC) |               |
| Output type                |                      | NPN           |
| Rated operating distance   | $s_n$                | 2.5 mm        |
| Installation               |                      | non-flush     |
| Output polarity            |                      | DC            |
| Assured operating distance | $s_a$                | 0 ... 2.03 mm |
| Reduction factor $r_{Al}$  |                      | 0.45          |
| Reduction factor $r_{Cu}$  |                      | 0.35          |
| Reduction factor $r_{304}$ |                      | 0.75          |
| Output type                |                      | 3-wire        |

### Nominal ratings

|                             |       |                   |
|-----------------------------|-------|-------------------|
| Nominal voltage             | $U_o$ | 5 V               |
| Operating voltage           | $U_B$ | 4.75 ... 5.25 V   |
| Switching frequency         | $f$   | 0 ... 800 Hz      |
| Reverse polarity protection |       | no                |
| Short-circuit protection    |       | no                |
| Voltage drop                | $U_d$ | $\leq 1$ V        |
| Operating current           | $I_L$ | 0 ... 40 mA       |
| Off-state current           | $I_r$ | $\leq 50$ $\mu$ A |
| No-load supply current      | $I_o$ | $\leq 10$ mA      |
| Switching state indicator   |       | LED, red          |

### Compliance with standards and directives

|                     |  |                  |
|---------------------|--|------------------|
| Standard conformity |  |                  |
| Standards           |  | EN IEC 60947-5-2 |

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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

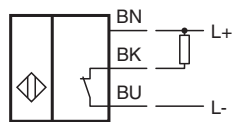
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

 **PEPPERL+FUCHS**

Technical Data

|                           |   |                                                                           |
|---------------------------|---|---------------------------------------------------------------------------|
| Ambient conditions        |   |                                                                           |
| Ambient temperature       |   | 10 ... 80 °C (50 ... 176 °F)                                              |
| Mechanical specifications |   |                                                                           |
| Connection type           |   | cable                                                                     |
| Housing material          |   | brass, nickel-plated                                                      |
| Sensing face              |   | LCP, black                                                                |
| Degree of protection      |   | IP65                                                                      |
| Cable                     |   |                                                                           |
| Cable diameter            |   | 3.5 mm ± 0.1 mm                                                           |
| Material                  |   | PVC                                                                       |
| Color                     |   | black                                                                     |
| Core cross section        |   | 0.14 mm²                                                                  |
| Length                    | L | L1 = 500 mm ± 10 mm<br>L2 = 50 mm ± 2 mm<br>L3 = 5 mm stripped and tinned |
| Dimensions                |   |                                                                           |
| Length                    |   | 30 mm                                                                     |
| Diameter                  |   | 8 mm                                                                      |

Connection



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