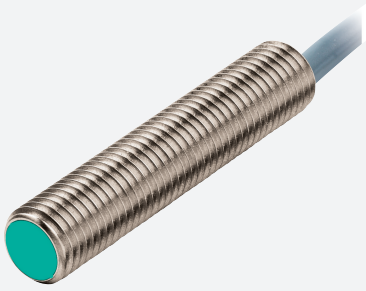


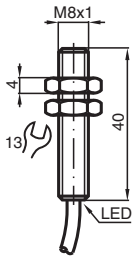
# Inductive sensor NBB1,5-8GM40-Z1



- 1.5 mm flush
- 2-wire DC



## Dimensions



## Technical Data

| General specifications      |       |                           |
|-----------------------------|-------|---------------------------|
| Switching function          |       | Normally closed (NC)      |
| Output type                 |       | Two-wire                  |
| Rated operating distance    | $s_n$ | 1.5 mm                    |
| Installation                |       | flush                     |
| Output polarity             |       | DC                        |
| Assured operating distance  | $s_a$ | 0 ... 1.21 mm             |
| Actual operating distance   | $s_r$ | 1.35 ... 1.65 mm typ.     |
| Reduction factor $r_{AI}$   |       | 0.22                      |
| Reduction factor $r_{Cu}$   |       | 0.16                      |
| Reduction factor $r_{304}$  |       | 0.64                      |
| Output type                 |       | 2-wire                    |
| Nominal ratings             |       |                           |
| Operating voltage           | $U_B$ | 5 ... 60 V                |
| Switching frequency         | $f$   | 0 ... 1200 Hz             |
| Hysteresis                  | $H$   | 1 ... 10 typ. 5 %         |
| Reverse polarity protection |       | reverse polarity tolerant |

Release date: 2024-05-28 Date of issue: 2024-06-05 Filename: 088536\_eng.pdf

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

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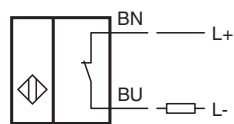
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**PEPPERL+FUCHS**

Technical Data

|                                          |                |                                                   |
|------------------------------------------|----------------|---------------------------------------------------|
| Short-circuit protection                 |                | pulsing                                           |
| Voltage drop                             | U <sub>d</sub> | ≤ 5 V                                             |
| Operating current                        | I <sub>L</sub> | 2 ... 100 mA                                      |
| Lowest operating current                 | I <sub>m</sub> | 2 mA                                              |
| Off-state current                        | I <sub>r</sub> | 0 ... 0.5 mA typ.                                 |
| Time delay before availability           | t <sub>v</sub> | ≤                                                 |
| Switching state indicator                |                | LED, yellow                                       |
| Functional safety related parameters     |                |                                                   |
| MTTF <sub>d</sub>                        |                | 2772 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                             |                | Certified by China Compulsory Certification (CCC) |
| Ambient conditions                       |                |                                                   |
| Ambient temperature                      |                | -25 ... 70 °C (-13 ... 158 °F)                    |
| Mechanical specifications                |                |                                                   |
| Connection type                          |                | cable PVC , 2 m                                   |
| Core cross section                       |                | 0.14 mm <sup>2</sup>                              |
| Housing material                         |                | Stainless steel 1.4305 / AISI 303                 |
| Sensing face                             |                | LCP                                               |
| Degree of protection                     |                | IP67                                              |
| Dimensions                               |                |                                                   |
| Length                                   |                | 40 mm                                             |
| Diameter                                 |                | 8 mm                                              |

Connection



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