

# Inductive sensor

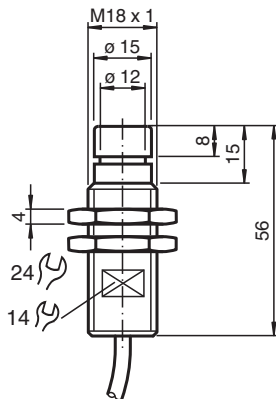
## NCB1,5-18GM60-E3-D



- 1.5 mm flush
- Compression proof up to 350 bar, dynamic on active surface
- For applications in hydraulic cylinder



### Dimensions



### Technical Data

|                               |       |                            |
|-------------------------------|-------|----------------------------|
| <b>General specifications</b> |       |                            |
| Switching function            |       | Normally closed (NC)       |
| Output type                   |       | PNP                        |
| Rated operating distance      | $s_n$ | 1.5 mm                     |
| Installation                  |       | flush                      |
| Output polarity               |       | DC                         |
| Assured operating distance    | $s_a$ | 0 ... 1.22 mm              |
| Reduction factor $r_{304}$    |       | 0.5                        |
| Output type                   |       | 3-wire                     |
| <b>Nominal ratings</b>        |       |                            |
| Operating voltage             | $U_B$ | 10 ... 60 V                |
| Switching frequency           | $f$   | 0 ... 1500 Hz              |
| Hysteresis                    | $H$   | 1 ... 10 % typ. 5 %        |
| Reverse polarity protection   |       | reverse polarity protected |
| Short-circuit protection      |       | pulsing                    |
| Voltage drop                  | $U_d$ | $\leq 2.5$ V               |
| Operating current             | $I_L$ | 0 ... 200 mA               |
| No-load supply current        | $I_0$ | $\leq 10$ mA               |
| <b>Limit data</b>             |       |                            |

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

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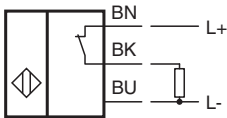
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Technical Data

|                                                 |                                                   |
|-------------------------------------------------|---------------------------------------------------|
| Operating pressure                              | 350 bar (5076.4 psi)                              |
| <b>Functional safety related parameters</b>     |                                                   |
| MTTF <sub>d</sub>                               | 1240 a                                            |
| Mission Time (T <sub>M</sub> )                  | 20 a                                              |
| Diagnostic Coverage (DC)                        | 0 %                                               |
| <b>Compliance with standards and directives</b> |                                                   |
| Standard conformity                             |                                                   |
| Standards                                       | EN IEC 60947-5-2                                  |
| <b>Approvals and certificates</b>               |                                                   |
| UL approval                                     | cULus Listed, General Purpose                     |
| CCC approval                                    | Certified by China Compulsory Certification (CCC) |
| <b>Ambient conditions</b>                       |                                                   |
| Ambient temperature                             | -35 ... 80 °C (-31 ... 176 °F)                    |
| <b>Mechanical specifications</b>                |                                                   |
| Connection type                                 | cable                                             |
| Housing material                                | Stainless steel 1.4305 / AISI 303                 |
| Sensing face                                    | Epoxy (black)                                     |
| Degree of protection                            | IP67                                              |
| <b>Cable</b>                                    |                                                   |
| Wire end ferrules                               | yes                                               |
| Cable diameter                                  | 4.6 mm ± 0.2 mm                                   |
| Bending radius                                  | > 10 x cable diameter                             |
| Material                                        | PVC                                               |
| Color                                           | grey                                              |
| Number of cores                                 | 3                                                 |
| Core cross section                              | 0.34 mm <sup>2</sup>                              |
| Length                                          | L                                                 |
| Mass                                            | 145 g                                             |
| <b>Dimensions</b>                               |                                                   |
| Length                                          | 57 mm                                             |
| Diameter                                        | 18 mm                                             |

Connection Assignment



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## Installation

### Note

Please refer to the technical information about this product at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com). This information describes the necessary geometry of the installation space!

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