

# Inductive sensor

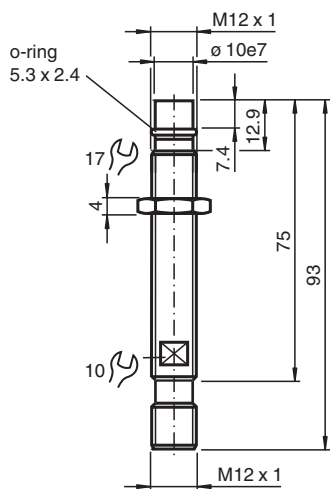
## NCB1,5-12GM85-E2-D-V1



- 1.5 mm flush
- Operating pressure 500 bar, peak pressure 1000 bar
- For applications in hydraulic cylinder



### Dimensions



### Technical Data

| General specifications      |       |                            |
|-----------------------------|-------|----------------------------|
| Switching function          |       | Normally open (NO)         |
| Output type                 |       | PNP                        |
| Rated operating distance    | $s_n$ | 1.5 mm                     |
| Installation                |       | flush                      |
| Output polarity             |       | DC                         |
| Nominal ratings             |       |                            |
| Operating voltage           | $U_B$ | 10 ... 30 V DC             |
| Switching frequency         | $f$   | 0 ... 600 Hz               |
| Hysteresis                  | $H$   | typ. 8 %                   |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |
| Voltage drop                | $U_d$ | $\leq 2$ V                 |
| Operating current           | $I_L$ | 0 ... 200 mA               |
| No-load supply current      | $I_0$ | $\leq 10$ mA               |
| Limit data                  |       |                            |

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

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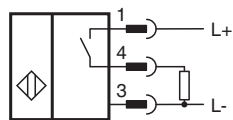
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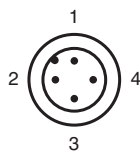
Technical Data

|                                                 |                                                              |
|-------------------------------------------------|--------------------------------------------------------------|
| Operating pressure                              | 500 bar (7252 psi)                                           |
| Peak pressure                                   | 1000 bar (14504 psi)                                         |
| <b>Functional safety related parameters</b>     |                                                              |
| MTTF <sub>d</sub>                               | 728 a                                                        |
| Mission Time (T <sub>M</sub> )                  | 20 a                                                         |
| Diagnostic Coverage (DC)                        | 0 %                                                          |
| <b>Compliance with standards and directives</b> |                                                              |
| Standard conformity                             |                                                              |
| Standards                                       | EN 60947-5-2:2007<br>IEC 60947-5-2:2007                      |
| <b>Approvals and certificates</b>               |                                                              |
| UL approval                                     | cULus Listed, General Purpose                                |
| CSA approval                                    | cCSAus Listed, General Purpose                               |
| CCC approval                                    | CCC approval / marking not required for products rated ≤36 V |
| <b>Ambient conditions</b>                       |                                                              |
| Ambient temperature                             | -25 ... 100 °C (-13 ... 212 °F)                              |
| <b>Mechanical specifications</b>                |                                                              |
| Connection type                                 | Connector M12 x 1 , 4-pin                                    |
| Housing material                                | Stainless steel 1.4305 / AISI 303                            |
| Sensing face                                    | Ceramic                                                      |
| Degree of protection                            | IP68                                                         |
| Mass                                            | 42 g                                                         |

Connection



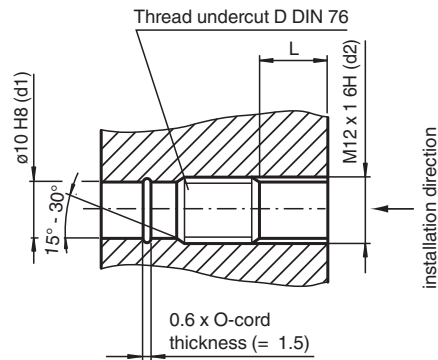
Connection Assignment



Wire colors in accordance with EN 60947-5-2

|   |    |         |
|---|----|---------|
| 1 | BN | (brown) |
| 2 | WH | (white) |
| 3 | BU | (blue)  |
| 4 | BK | (black) |

Additional Information



L: recommended installation depth:  $L \geq 0.8 \times d2$

Accessories

|  |                    |                                       |
|--|--------------------|---------------------------------------|
|  | <b>V1-G-2M-PUR</b> | Female cordset, M12, 4-pin, PUR cable |
|  | <b>V1-W-2M-PUR</b> | Female cordset, M12, 4-pin, PUR cable |