

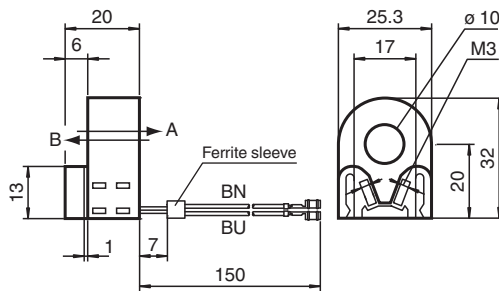
# Inductive ring sensor

## RC10-14-N3-Y187454

- 10 mm inside diameter
- Comfort series
- Bistable
- Direction detection



### Dimensions



### Technical Data

| General specifications                   |   |
|--|---|
| Switching function                       | Normally closed (NC)  |
| Output type                              | NAMUR, bistable   |
| Inside diameter                          | 10 mm   |
| Measuring cone                           | 4 mm, 1.4401  |
| Passage speed                            | v ≤ 10 m/s  |
| Output type                              | 2-wire  |
| Nominal ratings                          |   |
| Nominal voltage                          | U <sub>o</sub> 8.2 V (R <sub>i</sub> approx. 1 kΩ)                  |
| Operating voltage                        | U <sub>B</sub> 5 ... 25 V   |
| Hysteresis                               | H typ. 1 %  |
| Reverse polarity protection              | reverse polarity protected  |
| Current consumption                      |   |
| Passage B U <sub>B</sub> =8V             | ≥ 3 mA  |
| Passage B U <sub>B</sub> =10V            | ≥ 4.2 mA  |
| Passage A U <sub>B</sub> =10V            | 0.5 ... 1 mA typ. 0.9 mA  |
| Passage A U <sub>B</sub> =8V             | 0.5 ... 0.95 mA typ. 0.8 mA   |
| Power ON                                 | ≥ 3 mA with U <sub>B</sub> = 8 V<br>≥ 4.2 mA at U <sub>B</sub> = 10 |
| Time delay before availability           | t <sub>v</sub> ≤ 5 ms   |
| Functional safety related parameters     |   |
| MTTF <sub>d</sub>                        | 2130 a  |
| Mission Time (T <sub>M</sub> )           | 20 a  |
| Diagnostic Coverage (DC)                 | 0 %   |
| Compliance with standards and directives |   |
| Standard conformity                      |   |

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

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## Technical Data

|                                   |   |
|-----------------------------------|---|
| NAMUR                             | EN 60947-5-6:2000<br>IEC 60947-5-6:1999   |
| Standards                         | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012 |
| <b>Approvals and certificates</b> |   |
| ATEX approval                     |   |
| Equipment protection level Gb     | PTB 99 ATEX 2128 X  |
| UL approval                       | cULus Listed, General Purpose   |
| <b>Ambient conditions</b>         |   |
| Ambient temperature               | -25 ... 100 °C (-13 ... 212 °F)   |
| Storage temperature               | -40 ... 100 °C (-40 ... 212 °F)   |
| <b>Mechanical specifications</b>  |   |
| Connection type                   | cablc PVC , 150 mm<br>Crimp terminal sockets 60888-3, AMP                                   |
| Core cross section                | 0.14 mm <sup>2</sup>  |
| Housing material                  | PBT   |
| Degree of protection              | IP67  |
| Mass                              | 20 g  |
| Dimensions                        |   |
| Height                            | 32.5 mm   |
| Width                             | 25 mm   |
| Length                            | 20 mm   |
| <b>General information</b>        |   |
| Use in the hazardous area         | see instruction manuals   |

## Connection

