

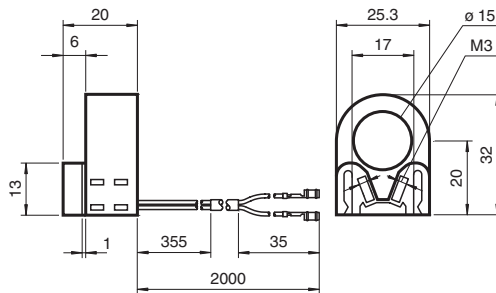
# Inductive ring sensor

## RC15-14-N0-Y187459

- 15 mm inside diameter
- Comfort series



### Dimensions



### Technical Data

#### General specifications

|                    |                         |
|--------------------|-------------------------|
| Switching function | Normally closed (NC)    |
| Output type        | NAMUR                   |
| Inside diameter    | 15 mm                   |
| Measuring cone     | 6 mm, 1.4305 / AISI 303 |
| Output type        | 2-wire                  |

#### Nominal ratings

|                              |       |                                      |
|------------------------------|-------|--------------------------------------|
| Nominal voltage              | $U_o$ | 8.2 V ( $R_i$ approx. 1 k $\Omega$ ) |
| Operating voltage            | $U_B$ | 5 ... 25 V                           |
| Switching frequency          | $f$   | 0 ... 1500 Hz                        |
| Current consumption          |       |                                      |
| Measuring plate not detected |       | $\geq 3$ mA at nominal voltage       |
| Measuring plate detected     |       | $\leq 1$ mA at nominal voltage       |

#### Functional safety related parameters

|                          |        |
|--------------------------|--------|
| MTTF <sub>d</sub>        | 5990 a |
| Mission Time ( $T_M$ )   | 20 a   |
| Diagnostic Coverage (DC) | 0 %    |

#### Compliance with standards and directives

|                     |   |
|---------------------|---|
| Standard conformity |   |
| 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 |

#### Approvals and certificates

|                               |                                |
|-------------------------------|--------------------------------|
| ATEX approval                 |                                |
| Equipment protection level Gb | PTB 99 ATEX 2128 X             |
| UL approval                   | cULus Listed, General Purpose  |
| CSA approval                  | cCSAus Listed, General Purpose |

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

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## Technical Data

| Ambient conditions        |  |
|---------------------------|--|
| Ambient temperature       | -20 ... 65 °C (-4 ... 149 °F)                          |
| Storage temperature       | -40 ... 100 °C (-40 ... 212 °F)                        |
| Mechanical specifications |  |
| Connection type           | cable PVC , 2 m<br>Crimp terminal sockets 60888-3, AMP |
| Core cross section        | 0.14 mm <sup>2</sup>                                   |
| Housing material          | PBT  |
| Degree of protection      | IP67   |
| Cable                     |  |
| Bending radius            | > 10 x cable diameter                                  |
| Mass                      | 36 g   |
| General information       |  |
| Use in the hazardous area | see instruction manuals                                |

## Connection

