

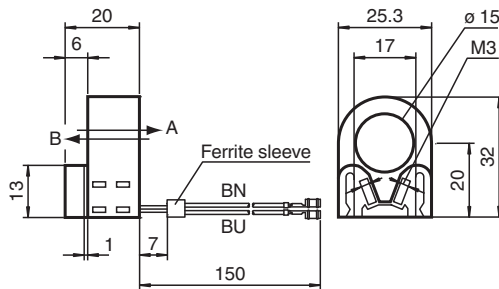
# Inductive ring sensor

## RC15-14-N3-Y187457

- 15 mm inside diameter
- Comfort series



### Dimensions



### Technical Data

#### General specifications

Switching function	Normally closed (NC)
Output type	NAMUR, bistable
Inside diameter	15 mm
Measuring cone	6 mm, 1.4401
Passage speed	v ≤ 10 m/s
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
Hysteresis	H	typ. 1 %
Reverse polarity protection		reverse polarity protected
Current consumption		
Passage B $U_B=8V$		≥ 3 mA
Passage B $U_B=10V$		≥ 4.2 mA
Passage A $U_B=10V$		0.5 ... 1 mA typ. 0.9 mA
Passage A $U_B=8V$		0.5 ... 0.95 mA typ. 0.8 mA
Power ON		≥ 3 mA with $U_B = 8 V$ ≥ 4.2 mA at $U_B = 10$
Time delay before availability	$t_v$	≤ 5 ms

#### Functional safety related parameters

MTTF <sub>d</sub>		2130 a
Mission Time ( $T_M$ )		20 a
Diagnostic Coverage (DC)		0 %

#### Compliance with standards and directives

Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999

Release date: 2023-01-27 Date of issue: 2023-01-27 Filename: 187457\_eng.pdf

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

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## Technical Data

Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 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
CSA approval	cCSAus Listed, General Purpose
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 75 °C (-13 ... 167 °F)
Storage temperature	-40 ... 100 °C (-40 ... 212 °F)
<b>Mechanical specifications</b>	
Connection type	cable PVC , 150 mm 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
<b>General information</b>	
Use in the hazardous area	see instruction manuals

## Connection

