

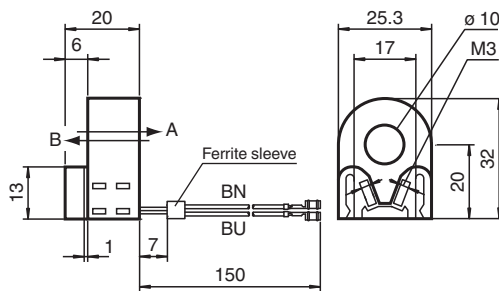
Inductive ring sensor

RC10-14-N3-Y187454

- 10 mm inside diameter
- 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_o 8.2 V (R_i approx. 1 k Ω)
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 _d	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

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Technical Data

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

Connection

