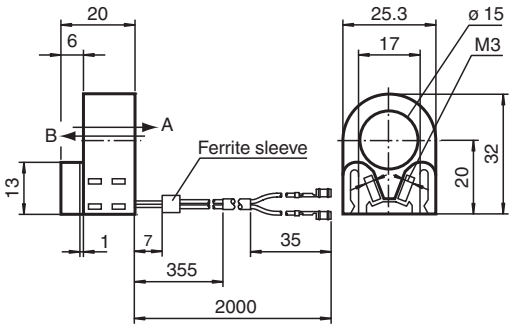
Inductive ring sensor
RC15-14-N3-Y187458

- 15 mm inside diameter

Dimensions



Technical Data

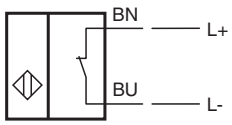
General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR, bistable
Inside diameter		15 mm
Measuring cone		6 mm, 1.4401
Passage speed	v	≤ 10 m/s
Output type		2-wire
Nominal ratings		
Nominal voltage	U_o	8.2 V (R_i approx. 1 kΩ)
Operating voltage	U_B	5 ... 25 V
Hysteresis	H	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
Standards		EN IEC 60947-5-2

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Technical Data

Approvals and certificates		
ATEX approval		
Equipment protection level Gb		PTB 99 ATEX 2128 X
UL approval		cULus Listed Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 8.2 V DC
Ambient conditions		
Ambient temperature		-25 ... 75 °C (-13 ... 167 °F)
Storage temperature		-40 ... 100 °C (-40 ... 212 °F)
Mechanical specifications		
Connection type		cable PVC , 2 m Crimp terminal sockets 60888-3, AMP
Core cross section		0.14 mm^2
Housing material		PBT
Degree of protection		IP67
Cable		
Bending radius		> 10 x cable diameter
Mass		36 g
Dimensions		
Height		32.5 mm
Width		25 mm
Length		20 mm
General information		
Use in the hazardous area		see instruction manuals

Connection Assignment



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