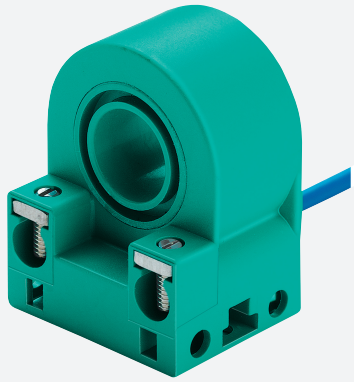
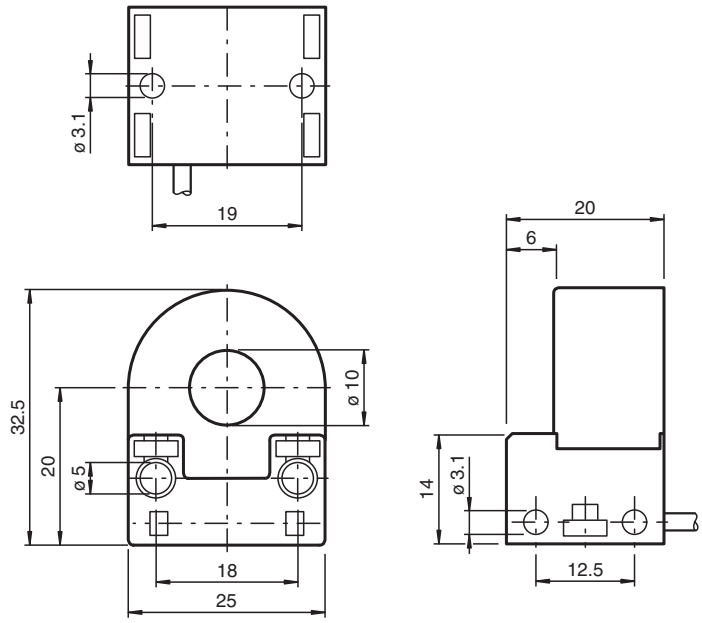


Inductive ring sensor

RC10-14-N0

- 10 mm inside diameter

Dimensions



Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Inside diameter		10 mm
Measuring cylinder		9S20K
Diameter		2.5 mm
Length		4 mm
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
Switching frequency	f	0 ... 2000 Hz
Suitable for 2:1 technology		yes , Reverse polarity protection diode not required

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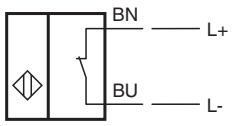
Technical Data

Current consumption	
Measuring plate not detected	min. 3 mA at maximum permissible ambient temperature, the current consumption can drop to 1.6 mA
Measuring plate detected	≤ 1 mA
Functional safety related parameters	
$MTTF_d$	6150 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
Electromagnetic compatibility	NE 21:2007
Standards	EN IEC 60947-5-2
Approvals and certificates	
ATEX approval	
Equipment protection level Gb	PTB 99 ATEX 2128 X
FM approval	
Control drawing	116-0165
UL approval	cULus Listed, General Purpose
Ambient conditions	
Ambient temperature	-20 ... 65 °C (-4 ... 149 °F)
Mechanical specifications	
Connection type	cable PVC , 2 m
Core cross section	0.14 mm^2
Housing material	PBT
Degree of protection	IP67
Cable	
Cable diameter	2.6 mm ± 0.2 mm
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



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