

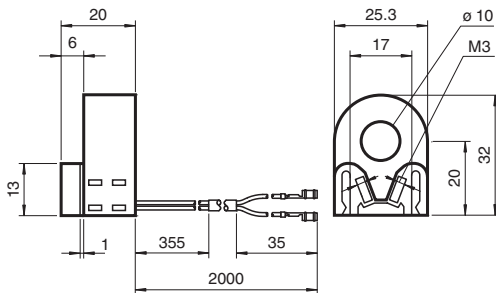
Inductive ring sensor

RC10-14-N0-Y187456

■ 10 mm inside diameter



Dimensions



Technical Data

General specifications

Switching function	Normally closed (NC)
Output type	NAMUR
Inside diameter	10 mm
Measuring cone	4 mm, 1.4305 / AISI 303
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
Switching frequency	f	0 ... 2000 Hz
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 at nominal voltage

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
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	-20 ... 65 °C (-4 ... 149 °F)
---------------------	-------------------------------

Release date: 2025-05-13 Date of issue: 2025-05-13 Filename: 187456_eng.pdf

Technical Data

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

