



### Model Number

RC10-14-N0-Y187456

### Features

- 10 mm inside diameter
- Comfort series

## 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 V
Operating voltage	$U_B$	5 ... 25 V
Switching frequency	f	0 ... 2000 Hz
Current consumption		

Measuring plate not detected	$\geq 3$ mA at maximum permissible ambient temperature, the current consumption can drop to 1.6 mA
Measuring plate detected	$\leq 1$ mA at nominal voltage

### Functional safety related parameters

MTTF <sub>d</sub>	6150 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %

### Ambient conditions

Ambient temperature	-20 ... 65 °C (-4 ... 149 °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 <sup>2</sup>
Housing material	PBT
Degree of protection	IP67
Cable	
Bending radius	> 10 x cable diameter
Mass	36 g

### General information

Use in the hazardous area	see instruction manuals
Category	2G

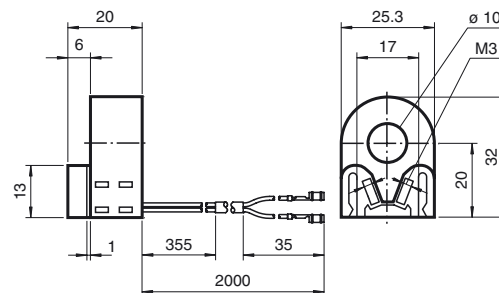
### Compliance with standards and directives

Standard conformity	
NAMUR	EN 60947-5-6:2000 IEC 60947-5-6:1999
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

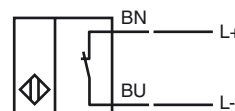
### Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose


## Dimensions



## Electrical Connection



**Equipment protection level Gb**

CE marking	CE 0102	
ATEX marking	 II 2G Ex ia IIC T6...T1 Gb The Ex-related marking can also be printed on the enclosed label.	
Standards	EN 60079-0:2012+A11:2013, EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions	
Appropriate type	RC10-...-N0...	
Effective internal capacitance	$C_i$	$\leq 150 \text{ nF}$ ; a cable length of 10 m is considered.
Effective internal inductance	$L_i$	$\leq 100 \text{ }\mu\text{H}$ ; a cable length of 10 m is considered.
Maximum permissible ambient temperature $T_{amb}$	Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the temperature class, and the effective internal reactance values can be found on the EU-type examination certificate.	

**Special conditions**

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