Model Number

RC10-14-N3-Y115614

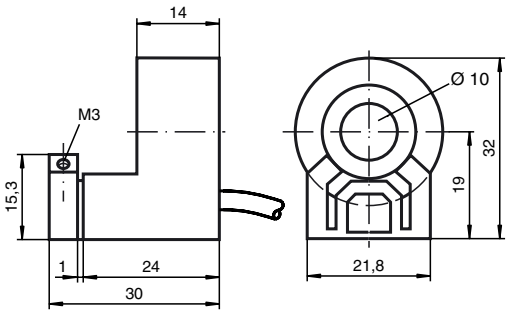
Features

- **10 mm inside diameter**
- **Comfort series**
- **Bistable**
- **Direction detection**

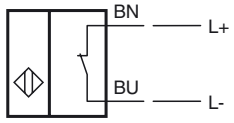
Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR, bistable
Inside diameter		10 mm
Measuring cylinder		
Diameter		1/8" (3.175mm)
Measuring cone		Carboloy
Output type		2-wire
Nominal ratings		
Nominal voltage	U_o	8 V
Operating voltage	U_B	5 ... 25 V
Hysteresis	H	typ. 1 %
Reverse polarity protection		reverse polarity protected
Design data		
Current consumption		
Traverse B		3 mA
Passage B U_B=8V		≥ 3 mA
Passage B U_B=10V		≥ 4.2 mA
Traverse A		1 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
Time delay before availability	t_v	≤ 5 ms
Functional safety related parameters		
$MTTF_d$		2140 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		0 ... 40 °C (32 ... 104 °F)
Mechanical specifications		
Connection type		cable PVC , 5 m
Core cross-section		0.14 mm^2
Housing material		PBT
Degree of protection		IP67
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 IEC 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose

Dimensions



Electrical Connection



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Equipment protection level Gb		
CE marking		CE 0102
ATEX marking		Ex 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-...-N3...
Effective internal capacitance	C_i	≤ 90 nF ; a cable length of 10 m is considered.
Effective internal inductance	L_i	≤ 120 µH ; 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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