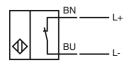
Model Number

RC15-14-N3

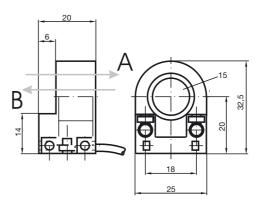
Features

- 15 mm inside diameter
- Bistable
- Direction detection
- High passage speed 10 m/s

Connection



Dimensions



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General specifications			
Switching element function		NAMUR, bistable	
Installation			
Output polarity		NAMUR	
Inside diameter		15 mm	
Measuring cylinder		Fe-metal	
Diameter		3 mm	
Length		4 mm	
Passage speed	V	≤ 10 m/s	
Nominal ratings			
Nominal voltage	U _o	8.2 V (R _i approx. 1 kΩ)	
Operating voltage	UB	5 25 V	
Hysteresis	Н	typ. 1 %	
Reverse polarity protection		reverse polarity protected	
Current consumption			
Traverse B		3 mA	
Traverse A		1 mA	
Time delay before availability	t_{v}	≤ 5 ms	
Functional safety related paramet	ers		
MTTF _d		2240 a	
Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0 %	
Ambient conditions			
Ambient temperature		-20 70 °C (-4 158 °F)	
Storage temperature		-40 100 °C (-40 212 °F)	
Mechanical specifications			
Connection type		cable PVC, 2 m	
Core cross-section		0.14 mm ²	
Housing material		PBT	
Protection degree		IP67	
General information			
Use in the hazardous area		see instruction manuals	
Category		2G	

Compliance with standards and directives Standard conformity

nandara comorniny	
NAMUR	EN 60947-5-6:2000 IEC 60947-5-6:1999

	IEC 60947-5-6:1999
Standards	EN 60947-5-2:2007
	IFC 60947-5-2:2007

Approvals and certificates

FM approval	
Control drawing	116-0165F

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

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ATEX 2G

Instruction

Device category 2G

Directive conformity Standard conformity

CE marking

Ex-identification

 $\begin{tabular}{ll} EC-Type Examination Certificate \\ Appropriate type \\ Effective internal capacitance $\,C_i$ \\ Effective internal inductance L_i \\ \end{tabular}$

General

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

Specific conditions

Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist 94/9/EG

EN 60079-0:2009, EN 60079-11:2007 Ignition protection "Intrinsic safety"
Use is restricted to the following stated conditions

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PTB 99 ATEX 2128 X

RC15-...-N3...

 $\leq 90~nF$; a cable length of 10 m is considered. $\leq 70~\mu H$; a cable length of 10 m is considered.

The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The EC-Type Examination Certificate has to be observed. The special conditions must be adhered to!

The temperature ranges, according to temperature class, are given in the EC-Type Examination Certificate.

Laws and/or regulations and standards governing the use or intended usage goal must be observed. The intrinsic safety is only assured in connection with an appropriate related apparatus and according to the proof of intrinsic safety.

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.