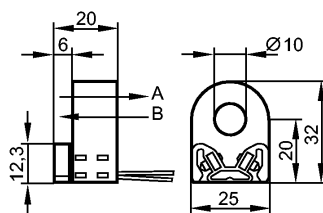


N7R21A

I7R2010-NL/1G/1D

Inductive sensors



A: direction of movement A
B: direction of movement B



Product characteristics

Ring sensor
Plastic housing
Cable
Inside diameter 10 mm
ATEX approval
Group II, category 1D
Group II, category 1G

Application

Principle of operation	Bistable
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Electrical data

Electrical design	Connection to certified intrinsically safe circuits with the max. values $U = 15\text{ V} / I = 50\text{ mA} / P = 120\text{ mW}$	
Nominal voltage [V]	8.2 DC; (1kΩ)	
Current consumption [mA]	< 1.2 (A) / > 2.1 (B) A = value for direction of movement A; B = value for direction of movement B	
Protection class	III	

Outputs

Output function	normally closed
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Monitoring range

Measuring ball (diameter) [mm]	4
Travel speed [m/s]	≤ 10

Accuracy / deviations

Hysteresis [mm]	2
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Environment

Ambient temperature [°C]	-40...100, max. temperature span: 100 K
Protection	IP 67

Tests / approvals

Approval	BVS 08 ATEX E026 IECEX BVS 09.0016
Marking of the unit	Ⓔ II 1G Ga Ex ia IIC T4 Ⓔ II 1D Ex iaD 20 T 125°C
EMC	EN 60947-5-2
MTTF [Years]	1256

Safety classification

Internal capacitance [nF]	< 90
Internal inductance [μH]	< 90

N7R21A

I7R2010-NL/1G/1D

Inductive sensors

Mechanical data

Inside diameter	[mm]	10
Housing materials		PA12-GF30
Weight	[kg]	0.044

Electrical connection

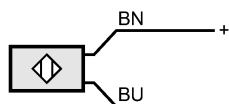
Connection	PTFE cable / 0.15 m; 2 x 0.14 mm ²	
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Wiring

Core colors

BN brown

BU blue



Remarks

Pack quantity	[piece]	1
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