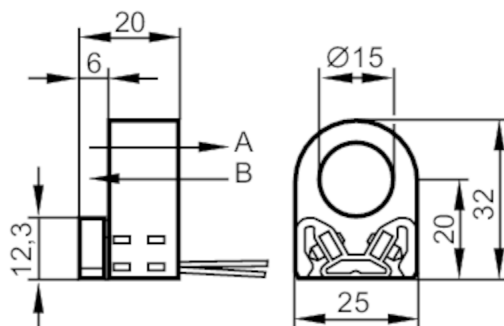


N7R23A



Inductive NAMUR ring sensor

I7R2015-NL/1G/1D



A direction of movement A
B direction of movement B



Application

Operating principle bistable

Electrical data

Connection to switching amplifiers	yes
Switching amplifiers	connection to certified intrinsically safe circuits with the max. values: $U = 15 \text{ V}$ / $I = 50 \text{ mA}$ / $P = 120 \text{ mW}$
Nominal voltage DC [V]	8.2; (1k Ω)
Current consumption [mA]	value for direction of movement A : < 1,2; value for direction of movement B : > 2,1
Protection class	III

Outputs

Electrical design	NAMUR
Output function	normally closed

Detection zone

Measuring ball (diameter) [mm]	6
Max. travel speed [m/s]	10

Accuracy / deviations

Hysteresis [mm]	2
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Operating conditions

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

Tests / approvals

Approval	BVS 08 ATEX E026; IECEx BVS 09.0016
ATEX marking	Ex II 1G Ex ia IIC T4 Ga
	Ex II 1D Ex ia IIIC T125°C Da
EMC	EN 60947-5-2
MTTF [years]	1261

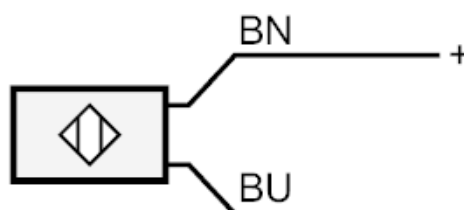
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Inductive NAMUR ring sensor

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Safety classification		
Max. internal capacitance	[nF]	90
Max. internal inductance	[μH]	65
Mechanical data		
Weight	[g]	42
Housing		circular
Dimensions	[mm]	32 x 25 x 20
Inside diameter	[mm]	15
Materials		PA 12-GF30
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 0.15 m; 2 x 0.14 mm ² , PTFE		
Connection		



Core colours :

BN = brown
BU = blue