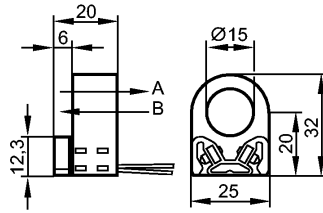


**N7R23A**

I7R2015-NL/1G/1D

**Inductive sensors**



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



Product characteristics	
Ring sensor	
Plastic housing	
Cable	
Inside diameter 15 mm	
ATEX approval	
Group II, category 1D	
Group II, category 1G	
Application	
Principle of operation	Bistable
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; (1k $\Omega$ )
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
Monitoring range	
Measuring ball (diameter) [mm]	6
Travel speed [m/s]	$\leq 10$
Accuracy / deviations	
Hysteresis [mm]	2
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	$\text{Ex}$ II 1G Ga Ex ia IIC T4 $\text{Ex}$ II 1D Ex iaD 20 T 125°C
EMC	EN 60947-5-2
MTTF [Years]	1261
Safety classification	
Internal capacitance [nF]	< 90
Internal inductance [ $\mu\text{H}$ ]	< 65

**N7R23A**

I7R2015-NL/1G/1D

**Inductive sensors**

**Mechanical data**

Inside diameter	[mm]	15
Housing materials		PA12-GF30
Weight	[kg]	0.042

**Electrical connection**

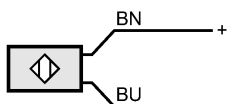
Connection	PTFE cable / 0.15 m; 2 x 0.14 mm <sup>2</sup>
------------	---

**Wiring**

Core colors

BN brown

BU blue



**Remarks**

Pack quantity	[piece]	1
---------------	---------	---