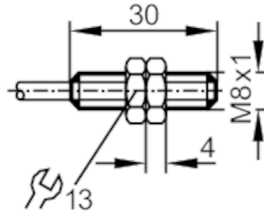




Inductive NAMUR sensor

IEA2001-N/20M/1D/1G



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)
Supply voltage DC	[V]	7.5...30; (when used outside the hazardous area)
Current consumption	[mA]	< 1; (disabled; conductive: > 2,1)

Outputs

Electrical design		NAMUR
Output function		normally closed
Permanent current rating of switching output DC	[mA]	30; (when used outside the hazardous area)
Switching frequency DC	[Hz]	2000

Detection zone

Sensing range	[mm]	1
Real sensing range S_r	[mm]	$1 \pm 10 \%$

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of S_r]	1...15
Switch point drift	[% of S_r]	-10...10

Operating conditions

Ambient temperature	[°C]	-20...70
Protection		IP 67

Tests / approvals

Approval		PTB 01 ATEX 2191; BVS 04 ATEX E153; IECEx BVS 06.0003
ATEX marking		Ex II 1G Ex ia IIC T6 Ga Ta: -20...70° C
		Ex II 1G Ex ia IIC T5 Ga Ta: -20...80° C
		Ex II 1D Ex ia IIIC T90° C Da Ta: -20...70° C
		Ex II 1D Ex ia IIIC T100° C Da Ta: -20...80° C
EMC		EN 60947-5-6
Shock/vibration resistance		30 g (11 ms) / 10-55 Hz (1 mm)
MTTF	[years]	6204

NE5012



Inductive NAMUR sensor

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Safety classification

Max. internal capacitance	[nF]	83
Max. internal inductance	[μH]	87

Mechanical data

Weight	[g]	337.4
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 30
Thread designation		M8 x 1
Materials		brass special coating; sensing face: PBT

Accessories

Accessories (supplied)	lock nuts: 2
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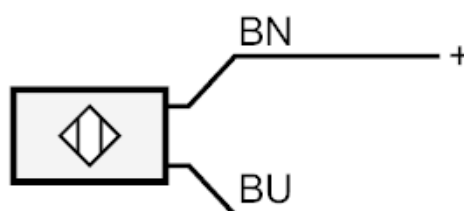
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 20 m, PVC; 2 x 0.14 mm²

Connection



Core colours :

BN = brown
BU = blue