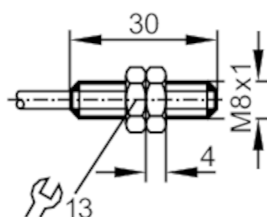




Inductive NAMUR sensor

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



Product characteristics

Electrical design	NAMUR
Output function	normally closed
Sensing range [mm]	1
Housing	Threaded type
Dimensions [mm]	M8 x 1 / L = 30

Electrical data

Connection at circuit amplifier	yes
Switching amplifiers	connection to certified intrinsically safe circuits with the max. values: U = 15 V / I = 50 mA / P = 120 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

Monitoring range

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

Accuracy / deviations

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

Operating conditions

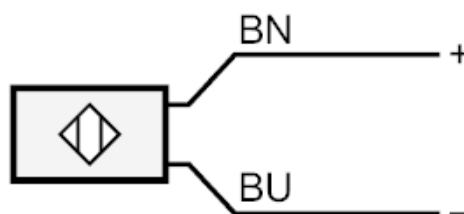
Ambient temperature [°C]	-20...70
Protection	IP 67



Inductive NAMUR sensor

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Tests / approvals	
Approval	PTB 01 ATEX 2191; BVS 04 ATEX E153; IECEx BVS 06.0003
ATEX marking	II 1G Ex ia IIC T6 Ga Ta: -20...70° C
	II 1G Ex ia IIC T5 Ga Ta: -20...80° C
	II 1D Ex ia IIIC T90° C Da Ta: -20...70° C
	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]	4816
Safety classification	
Max. internal capacitance [nF]	83
Max. internal inductance [μH]	87
Mechanical data	
Weight [g]	342.2
Housing	Threaded type
Mounting	flush mountable
Dimensions [mm]	M8 x 1 / L = 30
Thread designation	M8 x 1
Material	brass special coating; sensing face: PBT
Accessories	
Items supplied	lock nuts: 2
Remarks	
Pack quantity	1 pcs.
Electrical connection	
Cable: 20 m, PVC; 2 x 0.14 mm ²	
Connection	



Core colors :

BN = brown
BU = blue