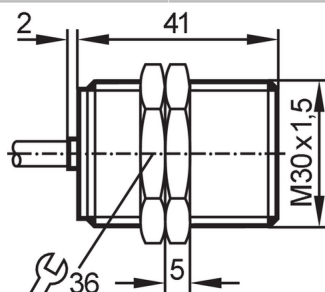




Inductive NAMUR sensor

IIA2010-N/1D/1G



Product characteristics

Electrical design	NAMUR
Output function	normally closed
Sensing range [mm]	10
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 41

Application

Application	For applications in hazardous areas
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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; (1kΩ)
Supply voltage DC [V]	7.5...30; (when used outside the hazardous area)
Current consumption [mA]	< 1; (disabled; conductive: > 2,1)
Protection class	III

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]	450

Monitoring range

Sensing range [mm]	10
Real sensing range Sr [mm]	10 ± 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

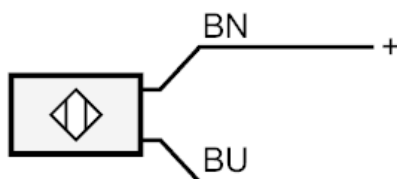
Ambient temperature [°C]	-20...80
Note on ambient temperature	when used outside the hazardous area
Protection	IP 67



Inductive NAMUR sensor

IIA2010-N/1D/1G

Tests / approvals	
Approval	PTB 01 ATEX 2191; BVS 04 ATEX E 153 X; IECEx BVS 06.0003X; TIIS TC16109
ATEX marking	II 1G Ex ia IIB T6 Ga Ta -20...70°C
	II 1G Ex ia IIB T5 Ga Ta -20...80°C
	II 2G Ex ia IIC T6 Gb Ta -20...70°C
	II 2G Ex ia IIC T5 Gb Ta -20...80°C
	II 1D Ex ia IIIC T200 90°C Da Ta: -20...70°C
	II 1D Ex ia IIIC T200 100° 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]	4697
Safety classification	
Max. internal capacitance [nF]	145
Max. internal inductance [μH]	140
Mechanical data	
Weight [g]	231
Housing	Threaded type
Mounting	flush mountable
Dimensions [mm]	M30 x 1.5 / L = 41
Thread designation	M30 x 1.5
Material	brass special coating; sensing face: PBT
Accessories	
Items supplied	lock nuts: 2
Remarks	
Pack quantity	1 pcs.
Electrical connection	
Cable: 2 m, PVC; 2 x 0.5 mm²	
Connection	



BN = Core colors :
brown
BU = blue