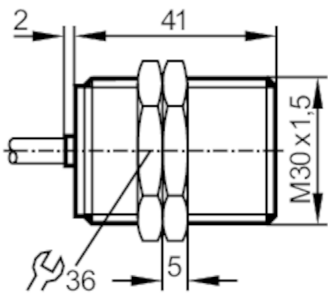




Inductive NAMUR sensor

IIA2010-N/10M/1D/1G/2G



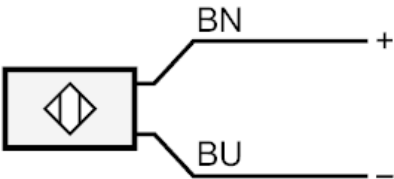
Product characteristics		
Electrical design		NAMUR
Output function		normally closed
Sensing range	[mm]	10
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 41
Electrical data		
Connection to switching amplifiers		yes
Switching amplifiers		connection to certified intrinsically safe circuits with 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
Detection zone		
Sensing range	[mm]	10
Real sensing range Sr	[mm]	10 ± 10 %
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-20...80
Protection		IP 67



Inductive NAMUR sensor

IIA2010-N/10M/1D/1G/2G

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]	147
Max. internal inductance	[µH]	148
Mechanical data		
Weight	[g]	537
Housing	threaded type	
Mounting	flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 41
Thread designation	M30 x 1.5	
Materials	brass special coating; sensing face: PBT	
Accessories		
Items supplied	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Cable: 10 m, PVC; 2 x 0.5 mm²		
Connection		



BN = Core colours : brown
BU = blue