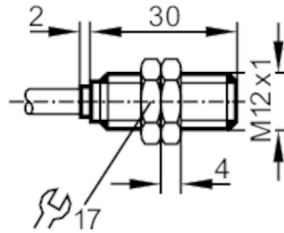




Inductive NAMUR sensor

IF-2002-N/10M/1D/1G

Article no longer available - archive entry



Product characteristics

Electrical design	NAMUR
Output function	normally closed
Sensing range [mm]	2
Housing	Threaded type
Dimensions [mm]	M12 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; (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]	1200

Monitoring range

Sensing range [mm]	2
Real sensing range Sr [mm]	2 ± 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
Protection	IP 67

Tests / approvals

Approval	PTB 01 ATEX 2191; BVS 04 ATEX E153; TIIS TC16107
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NF5029



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ATEX marking	II 1D Ex iaD 20 T 90°C Ta: -20...70°C
	II 1D Ex iaD 20 T 100°C Ta: -20...80°C
	II 1G Ex ia IIC T6 Ta: -20...55°C
	II 1G Ex ia IIC T5 Ta: -20...65°C
	II 2G Ex ia IIC T6 Ta: -20...70°C
	II 2G Ex ia IIC T5 Ta: -20...80°C
EMC	EN 60947-5-6
Shock/vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)

Safety classification		
Max. internal capacitance	[nF]	142
Max. internal inductance	[μH]	348

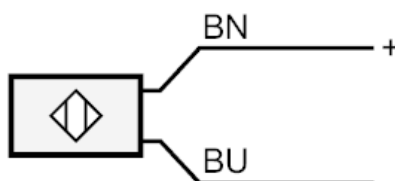
Mechanical data		
Weight	[g]	0.36
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 30
Thread designation		M12 x 1
Material		PBT

Accessories		
Items supplied		lock nuts: 2

Remarks		
Pack quantity		1 pcs.

Electrical connection		
Cable: 10 m, PVC; 2 x 0.34 mm²		

Connection		
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Core colors :
 BN = brown
 BU = blue