

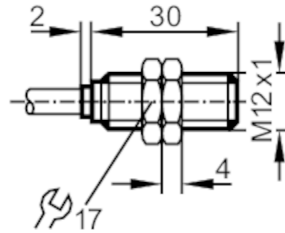
# NF5029



## 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 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]	1200

### Detection zone

Sensing range [mm]	2
Real sensing range Sr [mm]	2 ± 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

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Tests / approvals	
Approval	PTB 01 ATEX 2191; BVS 04 ATEX E153; TIIS TC16107
ATEX marking	$\text{Ex}$ II 1D Ex iaD 20 T 90°C Ta: -20...70°C
	$\text{Ex}$ II 1D Ex iaD 20 T 100°C Ta: -20...80°C
	$\text{Ex}$ II 1G Ex ia IIC T6 Ta: -20...55°C
	$\text{Ex}$ II 1G Ex ia IIC T5 Ta: -20...65°C
	$\text{Ex}$ II 2G Ex ia IIC T6 Ta: -20...70°C
	$\text{Ex}$ 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)
MTTF [years]	5096
Safety classification	
Max. internal capacitance [nF]	142
Max. internal inductance [ $\mu$ H]	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
Materials	PBT
Accessories	
Items supplied	lock nuts: 2
Remarks	
Pack quantity	1 pcs.

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### Electrical connection

Cable: 10 m, PVC; 2 x 0.34 mm<sup>2</sup>

### Connection



Core colours :

BN =

brown

BU =

blue