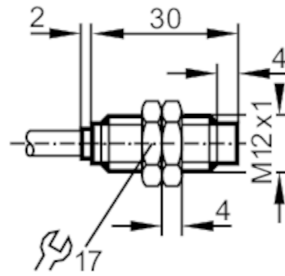


# NF5023



## Inductive NAMUR sensor

IFA2004-N/20M/1D/1G



### Product characteristics

Electrical design	NAMUR
Output function	normally closed
Sensing range [mm]	4
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]	1500

### Detection zone

Sensing range [mm]	4
Real sensing range Sr [mm]	4 ± 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

### Tests / approvals

Approval	PTB 01 ATEX 2191; BVS 04 ATEX E153; TIIS TC16107; IECEx BVS 06.0003
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# NF5023



## Inductive NAMUR sensor

IFA2004-N/20M/1D/1G

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]	4736

### Safety classification

Max. internal capacitance [nF]	143
Max. internal inductance [μH]	147

### Mechanical data

Weight [g]	653
Housing	threaded type
Mounting	non-flush mountable
Dimensions [mm]	M12 x 1 / L = 30
Thread designation	M12 x 1
Materials	brass special coating; sensing face: PC

### Accessories

Items supplied	lock nuts: 2
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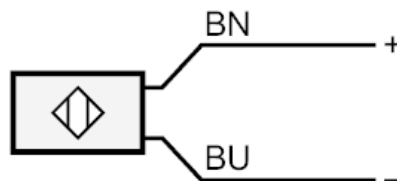
### Remarks

Pack quantity	1 pcs.
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### Electrical connection

Cable: 20 m, PVC; 2 x 0.34 mm<sup>2</sup>

### Connection



BN = Core colours : brown  
BU = blue