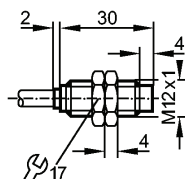


NF5004

IFA2004-N/1D/1G

Inductive sensors



Product characteristics

Inductive sensor
Metal thread M12 x 1
Cable
ATEX approval
Group II, category 1D
Group II, category 1G/2G
Sensing range 4 mm; [nf] non-flush mountable

Electrical data

Electrical design	Connection to certified intrinsically safe circuits with the max. values U = 15 V / I = 50 mA / P = 120 mW	
Nominal voltage [V]	8.2 DC; (1kΩ)	
Supply voltage [V]	7.5...30 DC; when used outside the hazardous area	
Current consumption [mA]	< 1 disabled; (> 2.1 mA enabled)	
Protection class	III	

Outputs

Output function	Normally closed	
Current rating [mA]	< 30; when used outside the hazardous area	
Switching frequency [Hz]	1500	

Range

Sensing range [mm]	4	
Real sensing range (Sr) [mm]	4 ± 10 %	

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3	
Hysteresis [% of Sr]	1...15	
Switch-point drift [% of Sr]	-10...10	

Environment

Ambient temperature [°C]	-20...80	
Protection	IP 67	

Tests / approvals

Approval	PTB 01 ATEX 2191 BVS 04 ATEX E153 TIIS TC16107	
Marking of the unit	Ⓔ 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)	

NF5004

IFA2004-N/1D/1G

Inductive sensors

MTTF	[Years]	5096
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Safety classification

Internal capacitance	[nF]	< 140
Internal inductance	[μH]	< 130

Mechanical data

Mounting	non-flush mountable	
Housing materials	Brass special coating; active face: PC	
Weight	[kg]	0.13

Electrical connection

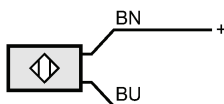
Connection	PVC cable / 2 m; 2 x 0.34 mm ²	
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Wiring

Core colours

BN brown

BU blue



Accessories

Accessories (included)	2 lock nuts	
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Remarks

Pack quantity	[piece]	1
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