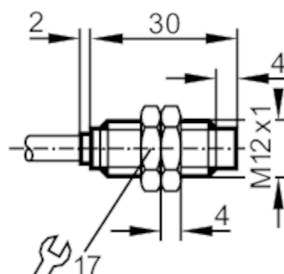




Inductive NAMUR sensor

IFA2004-N/6M/1D/1G



Electrical data

Connection to switching amplifiers	yes
Switching amplifiers	connection to certified intrinsically safe circuits with the max. values: $U = 15 \text{ V}$ / $I = 50 \text{ mA}$ / $P = 120 \text{ mW}$
Nominal voltage DC [V]	8.2; (1k Ω)
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 S_r [mm]	$4 \pm 10 \%$

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S_r]	1...15
Switch point drift [% of S_r]	-10...10

Operating conditions

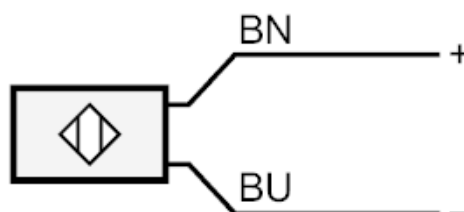
Ambient temperature [°C]	-20...80
Protection	IP 67



Inductive NAMUR sensor

IFA2004-N/6M/1D/1G

Tests / approvals	
Approval	PTB 01 ATEX 2191; BVS 04 ATEX E153; TIIS TC16107; IECEx BVS 06.0003
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]	5096
Safety classification	
Max. internal capacitance [nF]	141
Max. internal inductance [μH]	134
Mechanical data	
Weight [g]	252.4
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	
Accessories (supplied)	lock nuts: 2
Remarks	
Pack quantity	1 pcs.
Electrical connection	
Cable: 6 m, PVC; 2 x 0.34 mm ²	
Connection	



Core colours :

BN = brown
BU = blue