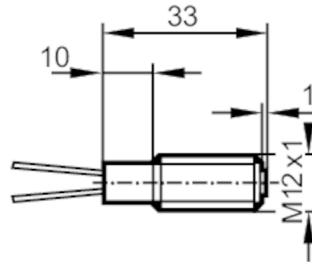


NF504A



Inductive sensor

IFB20.5-N/0.5M/1G



Product characteristics

Output function	normally closed
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 33

Application

Application	housing suited for an ambient pressure of max. 100 bar
Installation	Installation in turbine gas meter
Pressure rating [bar]	100
Pressure rating [MPa]	10

Electrical data

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; (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

Output function	normally closed
Permanent current rating of switching output DC [mA]	30; (when used outside the hazardous area)
Switching frequency DC [Hz]	2500
Notes on switching frequency [Hz]	on the turbine wheel

Detection zone

Operating distance [mm]	0.05...0.5; (on the turbine wheel)
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Accuracy / deviations

Hysteresis [% of Sr]	1...15
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Operating conditions

Ambient temperature [°C]	-25...60
Protection	IP 67

Tests / approvals

Approval	PTB 01 ATEX 2192; IECEx PTB 08.0058
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NF504A



Inductive sensor

IFB20.5-N/0.5M/1G

ATEX marking	II 1G Ex ia IIC T6 Ga Ta: -25...55 °C
	II 1G Ex ia IIC T5 Ga Ta: -25...60 °C
	II 1G Ex ia IIC T4 Ga Ta: -25...70 °C
	Ex ia IIC T6 Ga Ta: -25...55 °C
	Ex ia IIC T5 Ga Ta: -25...60 °C
	Ex ia IIC T4 Ga Ta: -25...70 °C
EMC	EN 60947-5-6
Shock/vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)

Safety classification

Max. internal capacitance [nF]	90
Max. internal inductance [μH]	100

Mechanical data

Weight [g]	36.5
Housing	threaded type
Mounting	non-flush mountable
Dimensions [mm]	M12 x 1 / L = 33
Thread designation	M12 x 1
Materials	brass special coating; sensing face: LCP

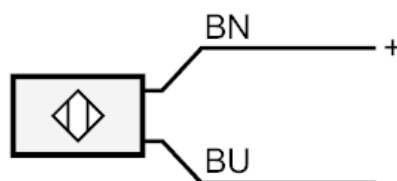
Remarks

Remarks	In principle, the type test according to 2014/34/EU (ATEX) only takes atmospheric conditions into account (0.8...1.1 bar). For pressures outside this range use must be assessed and approved by the user. Adhere to the operating instructions and the type test certificate.
Pack quantity	1 pcs.

Electrical connection

Cable: 0.5 m, PVC; 2 x 0.14 mm²

Connection



BN	Core colours
BU	brown
	blue