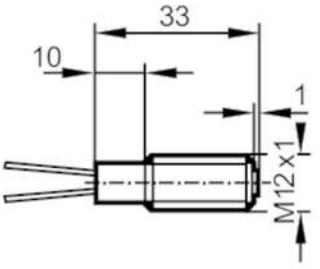
NF504A

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
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; (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		
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)
Accuracy / deviations		
Hysteresis	[% of Sr]	1...15
Operating conditions		
Ambient temperature	[°C]	-25...60
Protection		IP 67
Tests / approvals		
Approval		PTB 01 ATEX 2192; IECEx PTB 08.0058
ATEX marking		II 1G Ex ia IIC T6 Ga Ta: -25...55 °C

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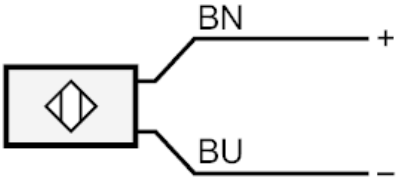
		II 1G Ex ia IIC T5 Ga Ta: -25...60 °C
		II 1G Ex ia IIC T4 Ga Ta: -25...70 °C
		Ex ia IIC T6 Ga Ta: -25...55 °C
		Ex ia IIC T5 Ga Ta: -25...60 °C
		Ex ia IIC T4 Ga Ta: -25...70 °C
EMC		EN 60947-5-6
Shock/vibration resistance		30 g (11 ms) / 10-55 Hz (1 mm)
Safety classification		
Max. internal capacitance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



	Core colours
BN	brown
BU	blue