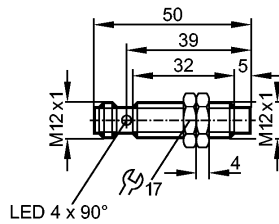


NF500A

IFB2007-N/US/1G/1D

Inductive sensors



Product characteristics	
Inductive sensor	
Metal thread M12 x 1	
Quick disconnect	
ATEX approval	
Group II, category 1D	
Group II, category 1G/2G	
Sensing range 7 mm; [nf] non-flush mountable	
Electrical data	
Electrical design	Connection to certified intrinsically safe circuits with the max. values $U = 15 \text{ V} / I = 50 \text{ mA} / P = 120 \text{ mW}$
Nominal voltage [V]	8.2 DC; (1k Ω)
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]	700
Monitoring range	
Sensing range [mm]	7
Real sensing range (Sr) [mm]	7 \pm 10 %
Accuracy / deviations	
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10
Environment	
Ambient temperature [°C]	-20...70
Protection	IP 67
Tests / approvals	
Approval	BVS 04 ATEX E 091 X IECEX BVS 06.0003
Marking of the unit	Ⓔ II 1G Ex ia IIC T6 Ga Ⓔ II 1D Ex ia IIIC T 90°C Da
EMC	EN 60947-5-6
Shock / vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)
MTTF [Years]	3119

NF500A

IFB2007-N/US/1G/1D

Inductive sensors

Safety classification

Internal capacitance	[nF]	< 210
Internal inductance	[μH]	< 145

Mechanical data

Mounting		non-flush mountable
Housing materials		brass special coating; active face: PBT; connector: PA
Weight	[kg]	0.072

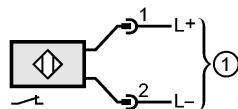
Displays / operating elements

Output status indication	LED	yellow (4 x 90°)
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Electrical connection

Connection		M12 connector
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Wiring



1 = connection to NAMUR-amplifier

Accessories

Accessories (included)		2 lock nuts
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Remarks

Pack quantity	[piece]	1
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