

NG500A



Inductive NAMUR sensor

IGB2012-N/US/1G/1D



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	II

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]	300

Detection zone

Sensing range [mm]	12
Real sensing range S_r [mm]	$12 \pm 10 \%$

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...70
Protection	IP 67

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Tests / approvals		
Approval	BVS 04 ATEX E 091 X; IECEx BVS 06.0003	
ATEX marking	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]	3387
Safety classification		
Max. internal capacitance	[nF]	200
Max. internal inductance	[μH]	85
Mechanical data		
Weight	[g]	90.6
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M18 x 1 / L = 51
Thread designation	M18 x 1	
Materials	brass special coating; sensing face: PBT; plug: PA	
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
Accessories		
Accessories (supplied)	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	
Electrical connection - plug		
Connector: 1 x M12		
		

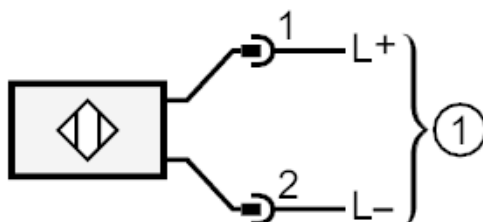
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Connection



1 = connection to NAMUR amplifiers