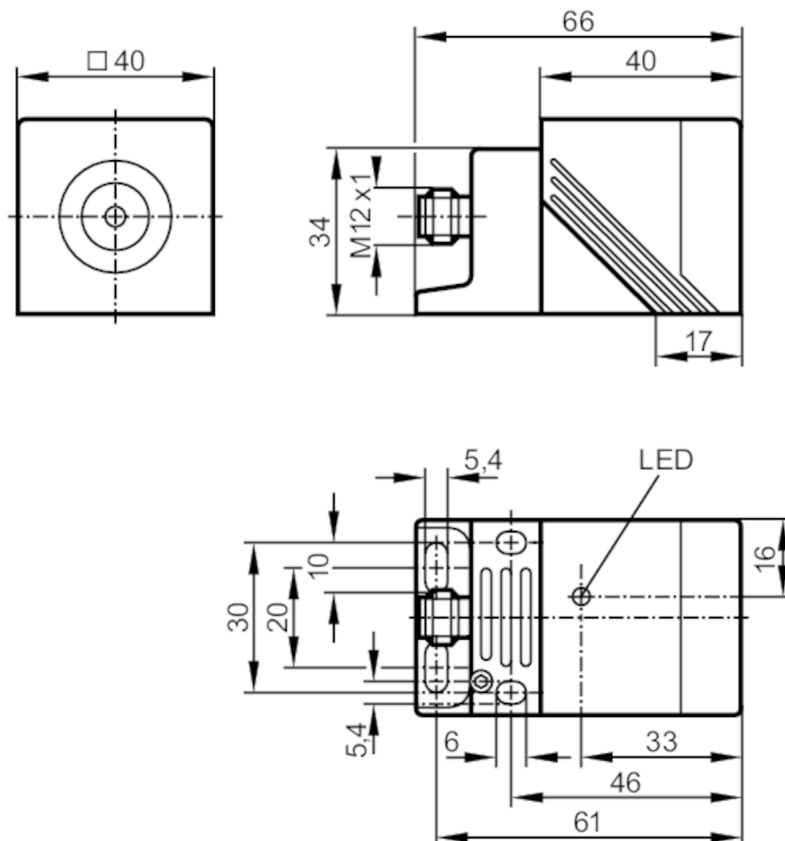


NM500A



Inductive NAMUR sensor

IMC2020BN/US/2G/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	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]	200

Detection zone

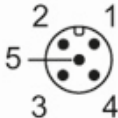
Sensing range [mm]	20
Real sensing range S_r [mm]	$20 \pm 10 \%$

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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-20...70
Protection	IP 67	
Tests / approvals		
Approval	BVS 04 ATEX E 091 X; IECEx BVS 06.0003	
ATEX marking	II 2G Ex ia IIB T6 Gb	
	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]	2920
Safety classification		
Max. internal capacitance	[nF]	250
Max. internal inductance	[µH]	450
Mechanical data		
Weight	[g]	175
Housing	rectangular	
Mounting	flush mountable	
Dimensions	[mm]	40 x 40 x 66
Materials	housing: PPE; end cap: PPS; connector housing: brass special coating; mounting adapter: PPS	
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (supplied)	Mounting bracket: 1 Allen key: 1	
Remarks		
Remarks	5 positions of the active zone possible	
Pack quantity	1 pcs.	
Electrical connection - plug		
Connector: 1 x M12		
		

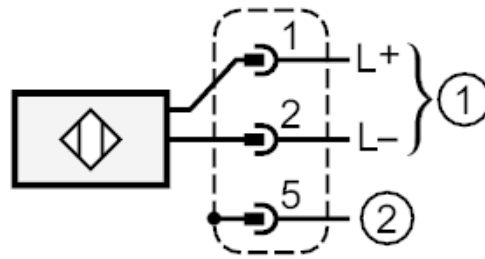
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Connection



- 1 = connection to NAMUR amplifiers
- 2 = potential equalisation of plug housing