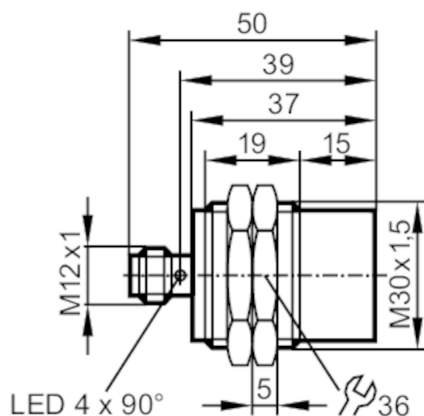


NI500A



Inductive NAMUR sensor

IIB2022-N/US/1G/1D



Product characteristics

Electrical design	NAMUR
Output function	normally closed
Sensing range [mm]	22
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 50

Electrical data

Connection at circuit amplifier	yes
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	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]	100

Monitoring range

Sensing range [mm]	22
Real sensing range Sr [mm]	22 $\pm$ 10 %

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 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

NI500A



Inductive NAMUR sensor

IIB2022-N/US/1G/1D

Tests / approvals		
Approval	BVS 04 ATEX E 091 X; IECEx BVS 06.0003	
ATEX marking	II 1G Ex ia IIB T6 Ga	
	II 2G Ex ia IIC 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]	2455
Safety classification		
Max. internal capacitance	[nF]	250
Max. internal inductance	[μH]	120
Mechanical data		
Weight	[g]	153.4
Housing	Threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 50
Thread designation	M30 x 1.5	
Material	brass special coating; sensing face: PBT; LED window: PA	
Displays / operating elements		
Display	Switching status	4 x 90° LED, yellow
Accessories		
Items supplied	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	
Electrical connection - plug		
Connector: 1 x M12; coding: A		
		

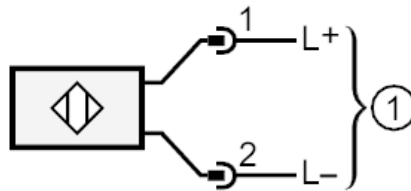
NI500A



Inductive NAMUR sensor

IIB2022-N/US/1G/1D

Connection



1 = connection to NAMUR-amplifier