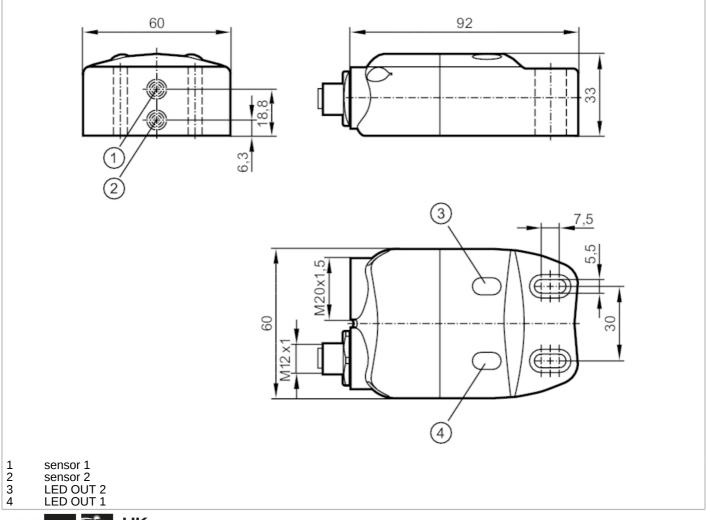
NN505A

Inductive sensor

INE2004DN/1D/1G/2G/SOCKET M12







Product characteristics

Electrical design		NAMUR	
Output function		2 x normally closed	
Sensing range	[mm]	4	
Housing		rectangular	
Dimensions	[mm]	33 x 60 x 92	
Electrical data			
Connection at circuit amplifier		yes	
Switching amplifiers		connection to certified intrinsically safe circuits with the max. values: $U = 15 \text{ V} / I = 50 \text{ mA} / P = 120 \text{ mW}$	
Operating voltage	[V]	8.2 DC; (1kΩ)	
Supply voltage DC	[V]	7.515; (when used outside the hazardous area)	
Current consumption	[mA]	< 1; (disabled; conductive: > 2,1)	
Protection class		III	
Actuator wiring		connection to certified intrinsically safe circuits of solenoid valves with the max. values: U = $28 \text{ V} / \text{I} = 250 \text{ mA} / \text{P} = 750 \text{ mW}$ (bis $40 ^{\circ}\text{C}$) / P = $650 ^{\circ}\text{MW}$ (bis $70 ^{\circ}\text{C}$); (When used in gas atmospheres (group II) the following maximum values are permitted: U = $28 ^{\circ}\text{V} / \text{P} = 1.1 ^{\circ}\text{W}$; These values must not be exceeded.)	

NN505A

Inductive sensor

INE2004DN/1D/1G/2G/SOCKET M12



Outputs					
Electrical design		NAMUR			
Output function		2 x normally closed			
Switching frequency DC	[Hz]	500			
Overload protection		yes			
Monitoring range					
Sensing range	[mm]	4			
Real sensing range Sr	[mm]	4 ± 10 %			
Operating distance	[mm]	03.25			
Accuracy / deviations					
Correction factor		steel: 1 / stainless steel: 0.7 / bras	ss: 0.5 / aluminum: 0.4 / copper: 0.3		
Hysteresis	[% of Sr]	115			
Switch-point drift	[% of Sr]	-1010			
Operating conditions					
Ambient temperature	[°C]	-2570			
Protection		IP 65; IP 67			
Tests / approvals					
Approval		BVS 14 ATEX E 005 X; IECEx BVS 14.0005X			
ATEX marking		⟨Ę _x ⟩ II 1G Ex ia IIB T4 Ga Ta: -2570 °C			
		⟨£x⟩ II 2G Ex ia IIC T4 Gb Ta: -2570 °C			
		$\langle \xi_{\rm x} \rangle$ II 1D Ex ia IIIB T135 °C Da Ta: -2570 °C			
EMC		EN 60947-5-6			
Vibration resistance			1055 Hz (1 mm)		
Shock resistance		30 g (11 ms)			
MTTF	[years]	1268			
Safety classification					
Max. internal capacitance	[nF]	60; (per intrinsically safe electric circuit)			
Max. internal inductance	[μH]	130; (per intrinsically safe electric circuit)			
Mechanical data					
Weight	[g]	221.5			
Housing		rectangular			
Mounting		non-flush mountable			
Dimensions	[mm]	33 x 60 x 92			
Material		housing: PA			
Displays / operating elements					
Display		Switching status	2 x LED, yellow		
Accessories					
Items supplied		socket head screws: 2 x M5 x 16			
		socket head screws: 2 x M3 x 25			
Remarks					
Remarks		The unit is not approved for safety tasks in the field of safety of persons.			
Pack quantity		1 pcs.			

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NN505A

Inductive sensor

INE2004DN/1D/1G/2G/SOCKET M12



Electrical connection

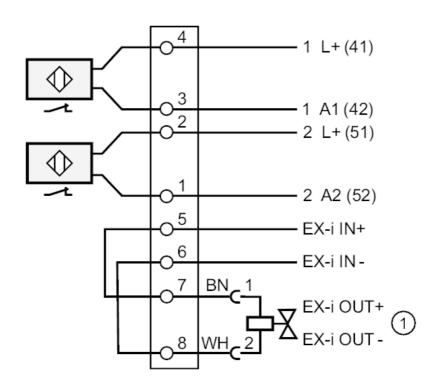
Terminal strip in the terminal chamber: ...2.5 mm²; Cable gland: M20 X 1.5

Electrical connection - Socket

Connector: 1 x M12; coding: A



Connection



1 solenoid valve output