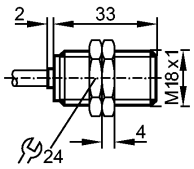
efector100

NG5002

IGA2005-N/1D/2G

Inductive sensors



Made in Germany

Product characteristics		
Inductive sensor		
Metal thread M18 x 1		
Cable		
ATEX approval		
Group II, category 1D		
Group II, category 2G		
Sensing range 5 mm; [f] flush mountable		
Electrical data		
Electrical design		Connection to certified intrinsically safe circuits with the max. values U = 15 V / I = 50 mA / P = 120 mW
Nominal voltage	[V]	8.2 DC; (1kΩ)
Supply voltage	[V]	7.5...30 DC; when used outside the hazardous area
Current consumption	[mA]	< 1;
Protection class		II
Outputs		
Output function		normally closed
Current rating	[mA]	< 30; when used outside the hazardous area
Switching frequency	[Hz]	720
Range		
Sensing range	[mm]	5
Real sensing range (Sr)	[mm]	5 ± 10 %
Accuracy / deviations		
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10
Environment		
Ambient temperature	[°C]	-20...80°C, when used outside hazardous areas
Protection		IP 67
Tests / approvals		
Approval		PTB 01 ATEX 2191 BVS 04 ATEX E153 IECEx BVS 06.0003 TIIS TC16108

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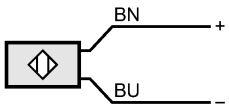
Marking of the unit	II 1G Ex ia IIB T6 Ta: -20...55°C II 1G Ex ia IIB T5 Ta: -20...65°C II 2G Ex ia IIC T6 Ta: -20...70°C II 2G Ex ia IIC T5 Ta: -20...80°C II 1D Ex iaD 20 T 90°C Ta: -20...70°C II 1D Ex iaD 20 T 100°C Ta: -20...80°C Ex ia IIC T6 Ta: -20...70°C
EMC	EN 60947-5-6
Shock / vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)
MTTF [Years]	4963
Safety classification	
Internal capacitance [nF]	< 145
Internal inductance [µH]	< 45
Mechanical data	
Mounting	flush mountable
Housing materials	brass special coating; active face: PBT
Weight [kg]	0.178
Electrical connection	
Connection	PVC cable / 2 m; 2 x 0.5 mm²

Wiring

Core colours

BN brown

BU blue



Accessories	
Accessories (included)	2 lock nuts
Remarks	
Pack quantity [piece]	1