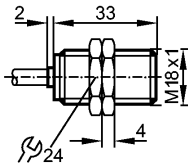


**NG5002**

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 $U = 15 \text{ V} / I = 50 \text{ mA} / P = 120 \text{ mW}$
Nominal voltage [V]	8.2 DC; (1k $\Omega$ )
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 $\pm$ 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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## NG5002

IGA2005-N/1D/2G

Inductive sensors

Marking of the unit	<ul style="list-style-type: none"> <li>⊕ II 1G Ex ia IIB T6 Ta: -20...55°C</li> <li>⊕ II 1G Ex ia IIB T5 Ta: -20...65°C</li> <li>⊕ II 2G Ex ia IIC T6 Ta: -20...70°C</li> <li>⊕ II 2G Ex ia IIC T5 Ta: -20...80°C</li> <li>⊕ II 1D Ex iaD 20 T 90°C Ta: -20...70°C</li> <li>⊕ II 1D Ex iaD 20 T 100°C Ta: -20...80°C</li> <li>⊕ Ex ia IIC T6 Ta: -20...70°C</li> </ul>
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EMC	EN 60947-5-6
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Shock / vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)
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MTTF [Years]	4963
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### Safety classification

Internal capacitance [nF]	< 145
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Internal inductance [μH]	< 45
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### Mechanical data

Mounting	flush mountable
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Housing materials	brass special coating; active face: PBT
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Weight [kg]	0.178
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### Electrical connection

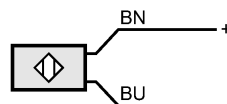
Connection	PVC cable / 2 m; 2 x 0.5 mm <sup>2</sup>
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#### Wiring

Core colours

BN brown

BU blue



### Accessories

Accessories (included)	2 lock nuts
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### Remarks

Pack quantity [piece]	1
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