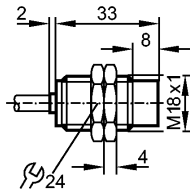


NG5004

IGA2008-N/1D/1G/2G

Inductive sensors



Product characteristics	
Inductive sensor	
Metal thread M18 x 1	
Cable	
ATEX approval	
Group II, category 1D	
Group II, category 1G/2G	
Sensing range 8 mm; [nf] non-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 Ω)
Supply voltage [V]	7.5...30 DC; when used outside the hazardous area
Current consumption [mA]	< 1 disabled; (> 2.1 mA enabled)
Protection class	II
Outputs	
Output function	normally closed
Current rating [mA]	< 30; when used outside the hazardous area
Switching frequency [Hz]	300
Monitoring range	
Sensing range [mm]	8
Real sensing range (Sr) [mm]	8 \pm 10 %
Accuracy / deviations	
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10
Environment	
Ambient temperature [°C]	-20...80
Protection	IP 67
Tests / approvals	
Approval	PTB 01 ATEX 2191 BVS 04 ATEX E153 TIIS TC16108 IECEX BVS 06.0003
Marking of the unit	Ⓔ 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

NG5004

IGA2008-N/1D/1G/2G

Inductive sensors

Shock / vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)
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MTTF [Years]	4756
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Safety classification

Internal capacitance [nF]	< 155
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Internal inductance [μH]	< 50
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Mechanical data

Mounting	non-flush mountable
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Housing materials	brass white bronze coated; active face: PBT
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Weight [kg]	0.172
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Electrical connection

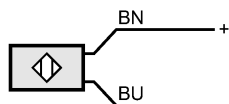
Connection	PVC cable / 2 m; 2 x 0.5 mm ²
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Wiring

Core colors

BN brown

BU blue



Accessories

Accessories (included)	2 lock nuts
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Remarks

Pack quantity [piece]	1
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