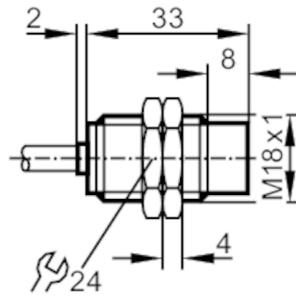


NG5021



Inductive NAMUR sensor

IGA2008-N/6M/1D/1G/2G



Product characteristics

Electrical design		NAMUR
Output function		normally closed
Sensing range	[mm]	8
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 33

Electrical data

Connection to switching amplifiers		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; (1kΩ)
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]	300

Detection zone

Sensing range	[mm]	8
Real sensing range Sr	[mm]	8 ± 10 %

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-20...80
Protection		IP 67

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Tests / approvals	
Approval	PTB 01 ATEX 2191; BVS 04 ATEX E153; TIIS TC16108; IECEx BVS 06.0003
ATEX marking	Ex II 1G Ex ia IIB T6 Ga
	Ex II 2G Ex ia IIC T6 Gb
	Ex 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]	4512

Safety classification	
Max. internal capacitance [nF]	156
Max. internal inductance [μ H]	54

Mechanical data	
Weight [g]	333.5
Housing	threaded type
Mounting	non-flush mountable
Dimensions [mm]	M18 x 1 / L = 33
Thread designation	M18 x 1
Materials	brass white bronze coated; sensing face: PBT

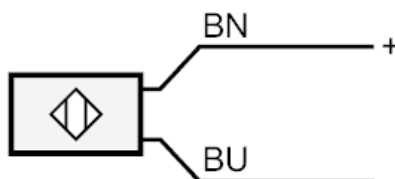
Accessories	
Items supplied	lock nuts: 2

Remarks	
Pack quantity	1 pcs.

Electrical connection

Cable: 6 m, PVC; 2 x 0.5 mm²

Connection



Core colours :
 BN = brown
 BU = blue