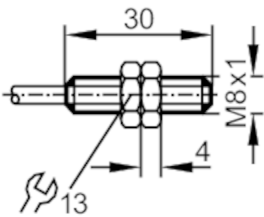




Inductive NAMUR sensor

IEA2001-N/20M/1D/1G



Product characteristics	
Electrical design	NAMUR
Output function	normally closed
Sensing range [mm]	1
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 30
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)
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]	2000
Detection zone	
Sensing range [mm]	1
Real sensing range Sr [mm]	1 ± 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...70
Protection	IP 67
Tests / approvals	
Approval	PTB 01 ATEX 2191; BVS 04 ATEX E 153 X; IECEX BVS 06.0003X
ATEX marking	Ex II 1G Ex ia IIC T6 Ga Ta -20...70°C

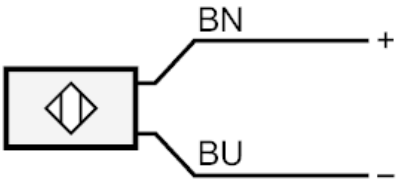
NE5012



Inductive NAMUR sensor

IEA2001-N/20M/1D/1G

	 II 1G Ex ia IIC T5 Ga Ta -20...80°C	
	 II 1D Ex ia IIIC T20090°C Da Ta: -20...70°C	
	 II 1D Ex ia IIIC T200100° C Da Ta: -20...80°C	
EMC	EN 60947-5-6	
Shock/vibration resistance	30 g (11 ms) / 10-55 Hz (1 mm)	
MTTF [years]	4816	
Safety classification		
Max. internal capacitance [nF]	83	
Max. internal inductance [µH]	87	
Mechanical data		
Weight [g]	342.2	
Housing	threaded type	
Mounting	flush mountable	
Dimensions [mm]	M8 x 1 / L = 30	
Thread designation	M8 x 1	
Materials	brass special coating; sensing face: PBT	
Accessories		
Items supplied	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Cable: 20 m, PVC; 2 x 0.14 mm²		
Connection		



BN = Core colours : brown
BU = blue