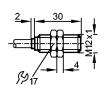
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NF5012

IFA2002-N/6M/1D/1G









TIIS				
Product characteristics				
Inductive sensor				
Metal thread M12 x 1				
Cable				
ATEX approval				
Group II, category 1D				
Group II, category 1G/2G				
Sensing range 2 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]	7.530 DC; when used outside the hazardous area		
Current consumption	[mA]	< 1 disabled; (> 2.1 mA enabled)		
Protection class		III		
Outputs				
Output function		normally closed		
Current rating	[mA]	< 30; when used outside the hazardous area		
Switching frequency	[Hz]	1200		
Monitoring range				
Sensing range	[mm]	2		
Real sensing range (Sr)	[mm]	2 ± 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]	115		
Switch-point drift	[% of Sr]	-1010		
Environment				
Ambient temperature	[°C]	-2080		
Protection		IP 67		
Tests / approvals				
Approval		PTB 01 ATEX 2191 BVS 04 ATEX E153 TIIS TC16107		
Marking of the unit		€ II 1G Ex ia IIC T6 Ga Ta: -2070° C		
		Ex II 1G Ex ia IIC T5 Ga Ta: -2080° C		
		€ II 1D Ex ia IIIC T90° C Da Ta: -2070° C		
		€x II 1D Ex ia IIIC T100° C Da Ta: -2080° C		
EMC		EN 60947-5-6		
Shock / vibration resistant	ce	30 g (11 ms) / 10-55 Hz (1 mm)		

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Inductive sensors

MTTF	[Years]	5096
Safety classification		
Internal capacitance	[nF]	< 141
Internal inductance	[μH]	< 344
Mechanical data		
Mounting		flush mountable
Housing materials		brass white bronze coated; active face: PC
Weight	[kg]	0.255
Electrical connection		
Connection		PVC cable / 6 m; 2 x 0.34 mm ²
Wiring Core colors BN brown BU blue	lack	BN +
Accessories		
Accessories (included)		2 lock nuts
Remarks		
Pack quantity	[piece]	1

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