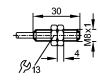
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NE5001

IEA2001-N/1D/1G





Product characteristics		
Inductive sensor		
Metal thread M8 x 1		
Cable		
ATEX approval		
Group II, category 1D/1G		
Sensing range 1 mm; [f] fl	ush mountat	ble
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]	2000
Monitoring range		
Sensing range	[mm]	1
Real sensing range (Sr)	[mm]	1 ± 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
Marking of the unit		⟨€ҳ⟩II 1G Ex ia IIC T6 Ga Ta: -2070° C
		€ II 1G Ex ia IIC T5 Ga Ta: -2080° C
		€ II 1G Ex ia IIC T5 Ga Ta: -2080° C € II 1D Ex ia IIIC T90° C Da Ta: -2070° C
		⊡ ⊛II 1G Ex ia IIC T5 Ga Ta: -2080° C
EMC		€ II 1G Ex ia IIC T5 Ga Ta: -2080° C € II 1D Ex ia IIIC T90° C Da Ta: -2070° C
EMC Shock / vibration resistanc	e	€ II 1G Ex ia IIC T5 Ga Ta: -2080° C € II 1D Ex ia IIIC T90° C Da Ta: -2070° C € II 1D Ex ia IIIC T100° C Da Ta: -2080° C
	ce [Years]	€ II 1G Ex ia IIC T5 Ga Ta: -2080° C € II 1D Ex ia IIIC T90° C Da Ta: -2070° C € II 1D Ex ia IIIC T100° C Da Ta: -2080° C EN 60947-5-6

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NE5001

Inductive sensors

IEA2001-N/1D/1G			Inductive sensors
Internal capacitance	[nF]	< 80	
Internal inductance	[µH]	< 70	
Mechanical data			
Mounting		flush mountable	
Housing materials		brass special coating; active face: PBT	
Weight	[kg]	0.092	
Electrical connection			
Connection		PVC cable / 2 m; 2 x 0.14 mm ²	
Wiring Core colors BN brown BU blue	\diamond		
Accessories			
Accessories (included)		2 lock nuts	
Remarks			
Pack quantity	[piece]	1	

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