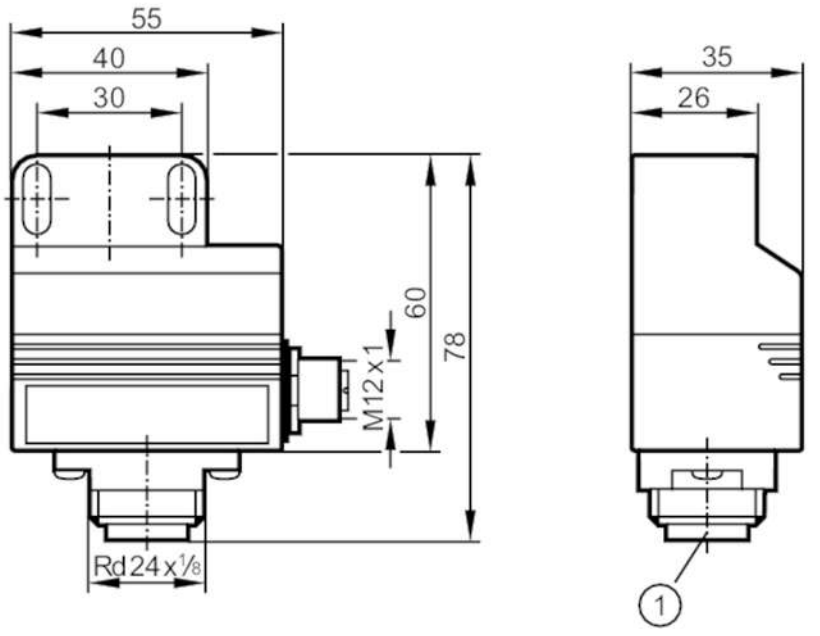
N95001

Inductive NAMUR dual sensor for valve actuators

IND2004DN/T1/1D/2G



1 field connection

Product characteristics		
Electrical design		NAMUR
Output function		2 x normally closed
Sensing range	[mm]	4
Housing		rectangular
Dimensions	[mm]	40 x 26 x 60
Application		
Application		for actuators using standard ISO 5211 (VDI/VDE) mounting
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)
Current consumption	[mA]	< 1; (disabled; conductive: > 2,2)
Protection class		III
Outputs		
Electrical design		NAMUR
Output function		2 x normally closed
Switching frequency DC	[Hz]	250
Detection zone		
Sensing range	[mm]	4
Real sensing range Sr	[mm]	4 ± 10 %

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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		BVS 03 ATEX E 131 X; BVS 04 ATEX E 153 X; IECEX BVS 06.0003X	
ATEX marking		II 2G Ex ia IIC T6 Gb Ta -20...70°C	
		II 2G Ex ia IIC T5 Gb Ta -20...80°C	
		II 1D Ex ia IIIB T200 90°C Da Ta: -20...70°C	
		II 1D Ex ia IIIB T200 100° 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]	1232	
Safety classification			
Max. internal capacitance	[nF]	150; (per intrinsically safe circuit)	
Max. internal inductance	[µH]	150; (per intrinsically safe circuit)	
Mechanical data			
Weight	[g]	175	
Housing		rectangular	
Mounting		non-flush mountable	
Dimensions	[mm]	40 x 26 x 60	
Materials		housing: PBT; cover: PC	
Displays / operating elements			
Display		switching status	2 x LED, yellow
Remarks			
Remarks		solenoid valve circuit Ex-i:	
		connection to certified intrinsically safe circuits with the max. values:	
		U = 28 V DC / P = 2 W	
Pack quantity		1 pcs.	

Electrical connection - plug

Connector: Rd24; coding: A

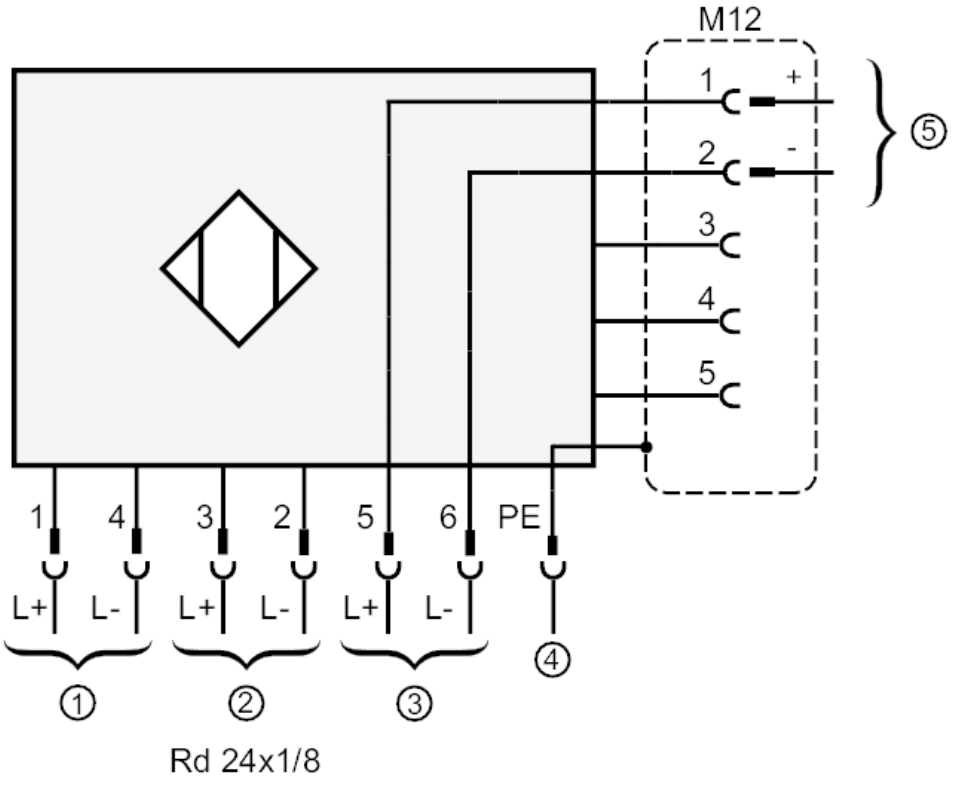


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Connection



1 = sensor 1
2 = sensor 2
3 = solenoid valve Ex-i
4 = potential equalisation of plug housing Connector M12
5 = solenoid valve Ex-i

Electrical connection - socket

Connector: 1 x M12; coding: A

