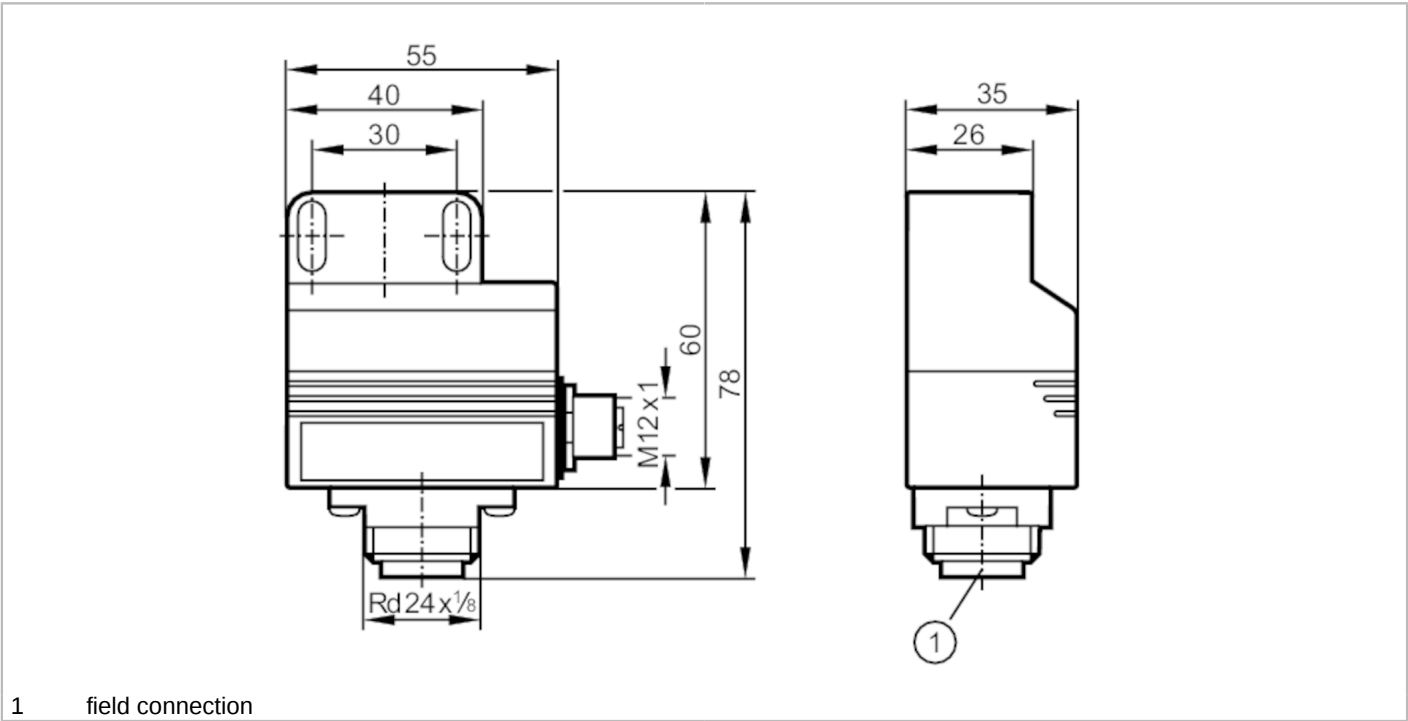


N95001



Inductive NAMUR dual sensor for valve actuators

IND2004DN/T1/1D/2G



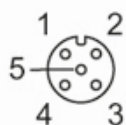
Product characteristics		
Electrical design		NAMUR
Output function		2 x normally closed
Sensing range	[mm]	4
Housing		rectangular
Dimensions	[mm]	40 x 26 x 60
Application		
Application		Position sensor for valve actuators; actuator control; For mechanical interfaces to ISO 5211 (VDI/VDE)
Electrical data		
Connection at circuit amplifier		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
Monitoring range		
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 / aluminum: 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		Ex II 2G Ex ia IIC T6 Gb Ta -20...70°C	
		Ex II 2G Ex ia IIC T5 Gb Ta -20...80°C	
		Ex II 1D Ex ia IIIB T200 90°C Da Ta: -20...70°C	
		Ex 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 electric circuit)
Max. internal inductance		[μH]	150; (per intrinsically safe electric circuit)
Mechanical data			
Weight		[g]	175
Housing		rectangular	
Mounting		non-flush mountable	
Dimensions		[mm]	40 x 26 x 60
Material		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 - Socket			
Connector: 1 x M12; coding: A			

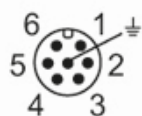


Inductive NAMUR dual sensor for valve actuators

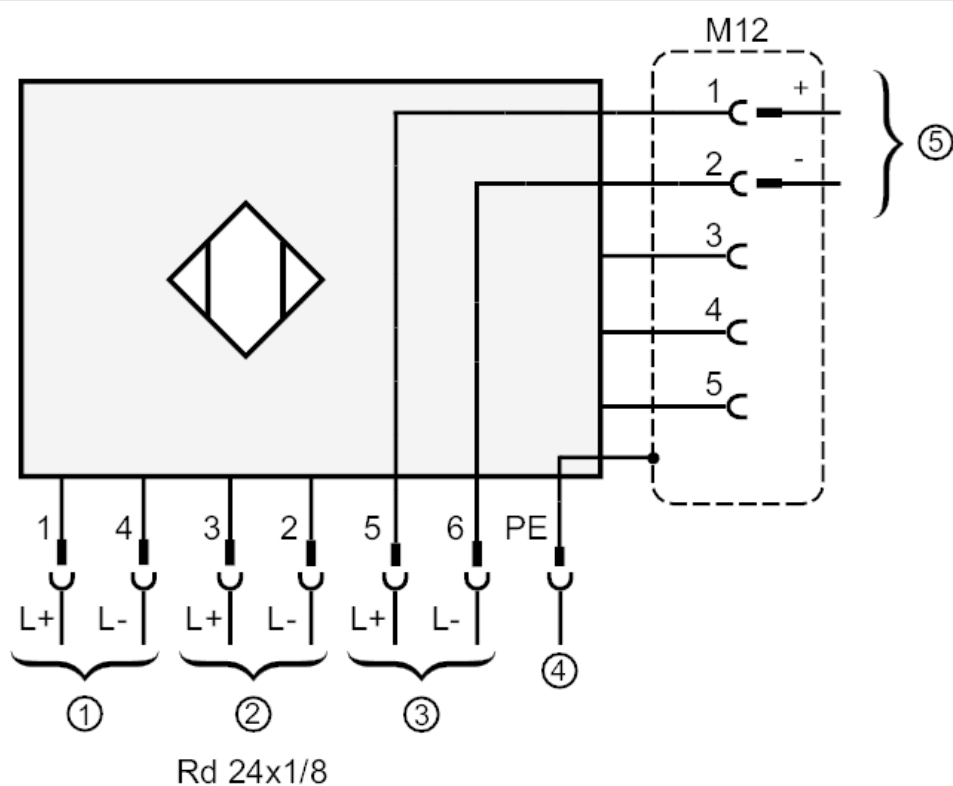
IND2004DN/T1/1D/2G

Electrical connection - plug

Connector: Rd24; coding: A



Connection



- 1 = sensor 1
- 2 = sensor 2
- 3 = Single solenoid valve Ex-i
- 4 = Potential equalization plug housing Connector M12
- 5 = Single solenoid valve Ex-i