

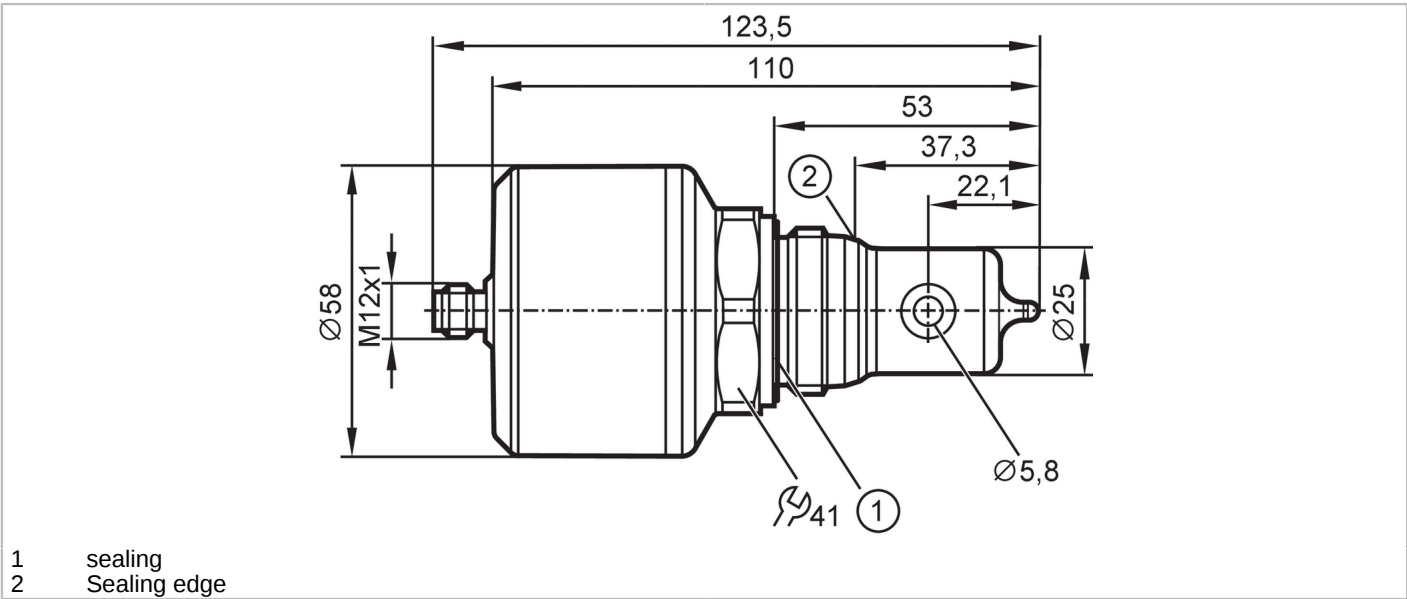
LDL200



Inductive conductivity sensor

IND CONDUCTIVITY HYG ASF-V

Digital meets analog: integrating modern IO-Link sensors the analog way. The EIO104 allows you to realize two analog signals from intelligent IO-Link sensors with several process values.



Product characteristics		
Number of inputs and outputs	Number of analog outputs: 1	
Process connection	G 1 external thread Aseptoflex Vario	
Application		
Special feature	gold-plated contacts	
Media	Conductive liquids	
Note on media	water	
	milk	
	CIP liquids	
Cannot be used for	See the operating instructions, chapter "Function and features".	
Medium temperature [°C]	-25...100; (< 1 h: 150)	
Pressure rating	16 bar	1.6 MPa
Vacuum resistance [mbar]	-1000	
MAWP (for applications according to CRN)	12 bar	1.2 MPa
Electrical data		
Operating voltage [V]	18...30 DC	
Current consumption [mA]	< 100	
Protection class	III	
Reverse polarity protection	yes	
Power-on delay time [s]	2	
Measuring principle	inductive	
Inputs / outputs		
Number of inputs and outputs	Number of analog outputs: 1	

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Outputs			
Total number of outputs		1	
Output signal		analog signal; IO-Link	
Output function		analog output scalable; selectable conductivity / temperature	
Number of analog outputs		1	
Analog current output [mA]		4...20	
Max. load [Ω]		500	
Measuring/setting range			
Conductivity measurement			
Measuring range [μS/cm]		100...1000000	
Resolution [μS/cm]		0...10.000	1
		10.000...100.000	10
		100.000...1.000.000	100
Temperature measurement			
Measuring range [°C]		-25...150	
Accuracy / deviations			
Conductivity measurement			
Accuracy (in the measuring range)		2 % MW ± 25 μS/cm	
Drift [%/K]		0,1 %/K MW	
Repeatability		1 % MW ± 25 μS/cm	
Long-term stability		0,5 % MW ± 25 μS/cm	
Temperature measurement			
Accuracy [K]		20...50 °C: < ± 0,2 K; -25...150 °C: < ± 1,5 K	
Repeatability [K]		0,2	
Resolution [K]		0.1	
Reaction times			
Conductivity measurement			
Response time [s]		< 2; (T09; Damping = 0)	
Temperature measurement			
Response time [s]		< 25; (T09)	
Interfaces			
Communication interface		IO-Link	
Transmission type		COM2 (38,4 kBaud)	
IO-Link revision		1.1	
SDCI standard		IEC 61131-9	
Profiles		Smart Sensor - SSP 3.1	Measuring Sensor
		Common - I&D	Identification and Diagnosis
SIO mode		no	
Required master port class		A	
Process data analog		1	
Min. process cycle time [ms]		6.4	

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Supported DeviceIDs	Type of operation	DeviceID
	default	922

Operating conditions		
Ambient temperature	[°C]	-40...60
Storage temperature	[°C]	-40...85
Protection	IP 68; IP 69K; (7 days / 3 m water depth / 0.3 bar: IP 68)	

Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF	[years]	129
UL approval	File number UL	E364788

Mechanical data		
Weight	[g]	692.6
Material	stainless steel (1.4404 / 316L); PEEK; PEI; FKM	
Materials (wetted parts)	PEEK	
Process connection	G 1 external thread Aseptoflex Vario	
Surface characteristics Ra/Rz of the wetted parts	Ra ≤ 0.8 µm	

Remarks		
Remarks	MW = Measured value	
Notes	Digital meets analog: integrating modern IO-Link sensors the analog way. The EIO104 allows you to realize two analog signals from intelligent IO-Link sensors with several process values.	
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12 (EN 61067-2-101); coding: A; Contacts: 4, gold-plated



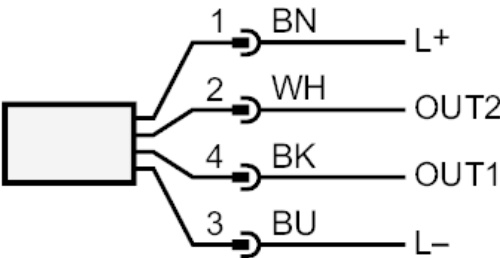
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Connection



OUT1	IO-Link
OUT2	analog output
	Colors to DIN EN 60947-5-2
	Core colors :
BK =	black
BN =	brown
BU =	blue
WH =	white