

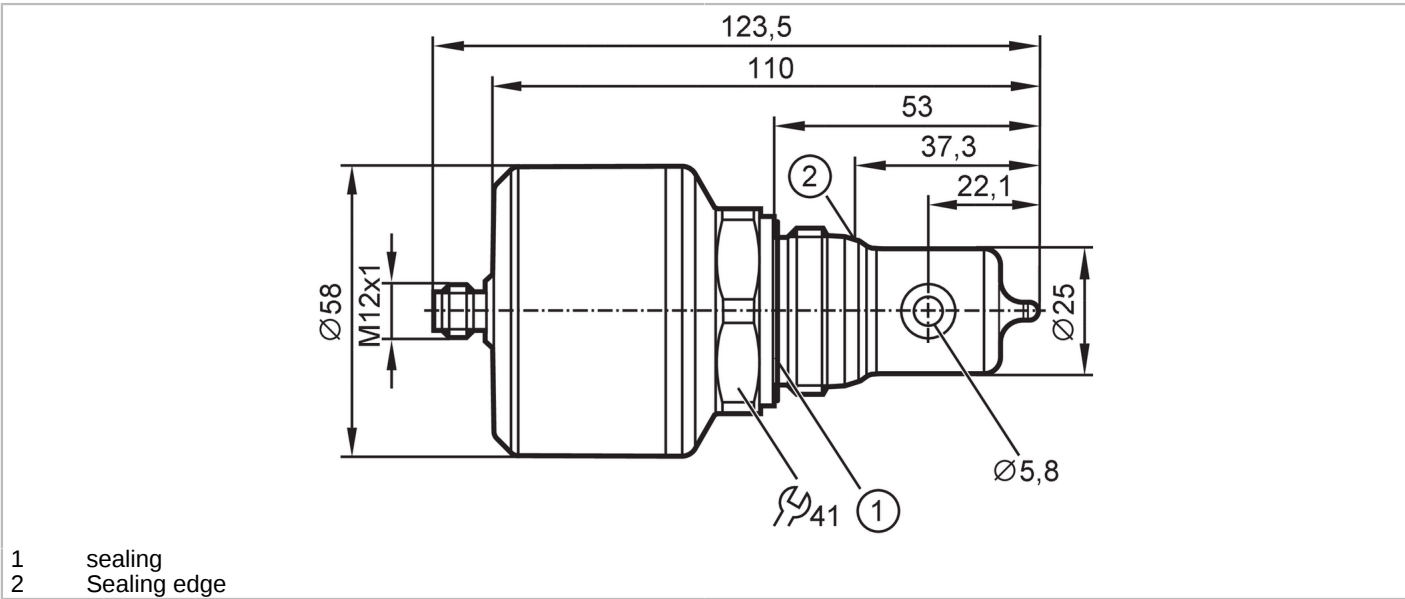
LDL200



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
		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 ± 25 μS/cm
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