LDL200

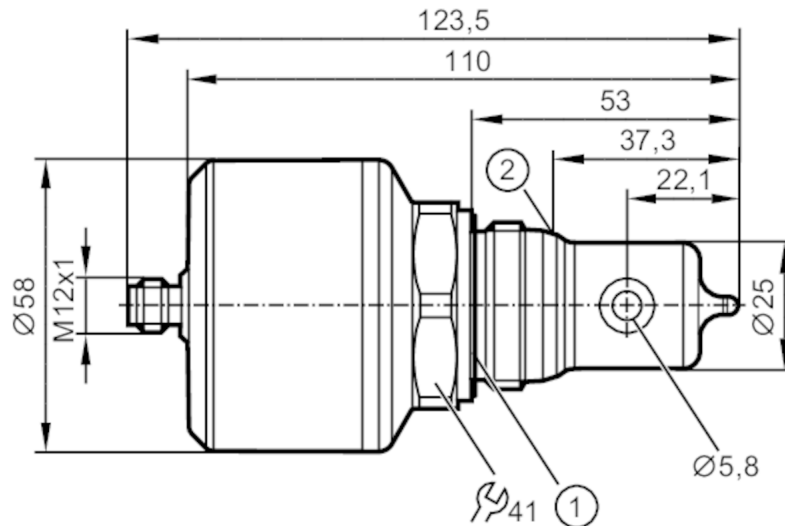### Inductive conductivity sensor

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.

1   sealing
2   Sealing edge

Product characteristics	
Number of inputs and outputs	Number of analog outputs: 1
Process connection	G 1 external thread Aseptoflex Vario
Application	
System	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 [bar]	16
Vacuum resistance [mbar]	-1000
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	induktiv
Inputs / outputs	
Number of inputs and outputs	Number of analog outputs: 1

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Inductive conductivity sensor

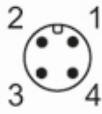**IND CONDUCTIVITY HYG ASF-V**

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	
Temperature measurement		
Measuring range [°C]	-25...150	

Accuracy / deviations		
Conductivity measurement		
Accuracy (in the measuring range)	2 % MW ± 25 µS/cm	
Resolution [µS/cm]	1	(0...10000)
	10	(10000…100000)
	100	(100000…1000000)
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]	< 40; (T09)

Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Measuring Sensor, Identification and Diagnosis	
SIO mode	no	
Required master port class	A	
Process data analog	1	
Min. process cycle time [ms]	5.6	
Supported DeviceIDs	Type of operation	DeviceID
	default	922

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Inductive conductivity sensor

IND CONDUCTIVITY HYG ASF-V

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	

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

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.

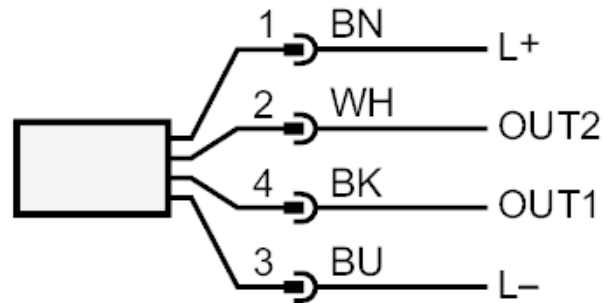| Electrical connection |
|---|

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

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Inductive conductivity sensor

Connection

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