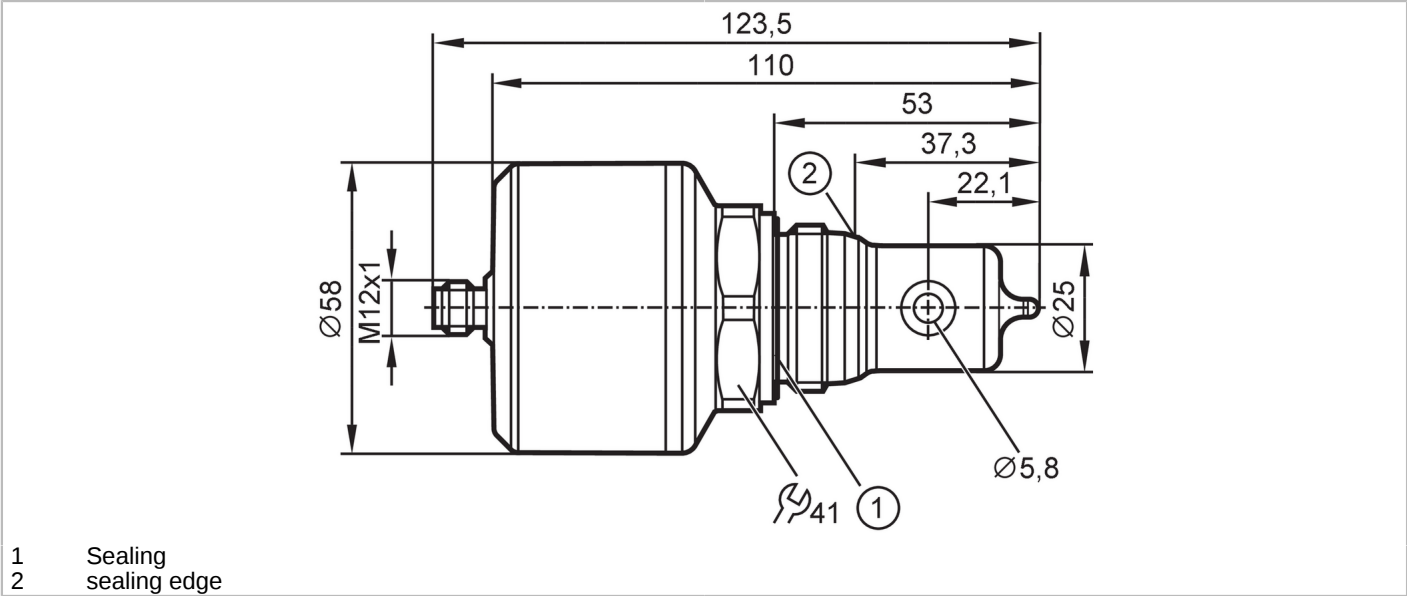




Inductive conductivity sensor

IND CONDUCTIVITY HYG ASF-V

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



Product characteristics

Number of inputs and outputs	Number of analogue 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 analogue outputs: 1
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Outputs		
Total number of outputs		1
Output signal		analogue signal; IO-Link
Output function		analogue output scalable; selectable conductivity / temperature
Number of analogue outputs		1
Analogue 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 ± 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
Response 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 type		A
Process data analogue		1
Min. process cycle time [ms]		6.4

LDL200



Inductive conductivity sensor

IND CONDUCTIVITY HYG ASF-V

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
Materials	stainless steel (316L/1.4404); 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 analogue: integrating modern IO-Link sensors the analogue way. The EIO104 allows you to realise two analogue 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



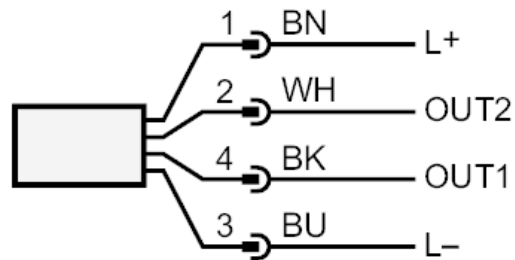
LDL200



Inductive conductivity sensor

IND CONDUCTIVITY HYG ASF-V

Connection



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