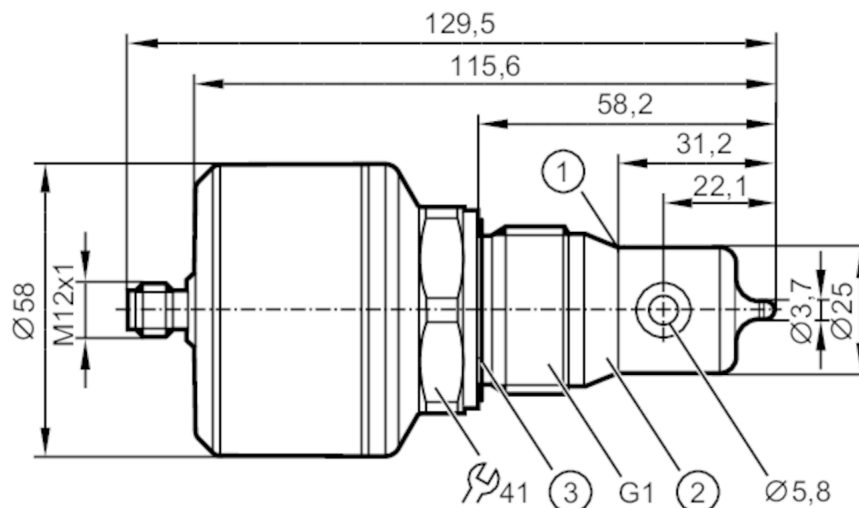




## Inductive conductivity sensor

IND CONDUCTIVITY HYG G1 SC

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 edge
- 2 Attention: The unit must only be installed in a process connection for G1 sealing cone. The G1A sealing cone of the unit is only suited for adapters with metal end stop.
- 3 sealing



EC 1935/2004 EHEDG Certified FCM FDA UK CA

### Product characteristics

Number of inputs and outputs	Number of analog outputs: 1
Process connection	threaded connection G 1 external thread sealing cone

### 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	inductive

### Inputs / outputs

Number of inputs and outputs	Number of analog outputs: 1
------------------------------	-----------------------------

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## Inductive conductivity sensor

IND CONDUCTIVITY HYG G1 SC

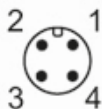
Outputs			
Total number of outputs		1	
Output signal		analog signal; IO-Link	
Output function		analog output; scalable; selectable conductivity / temperature	
Number of analog outputs		1	
Analog current output [mA]		4...20	
Max. load [Ω]		500	
Measuring/setting range			
conductivity measurement			
Measuring 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 ± 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 G1 SC

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	in a closed metal tank
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
UL approval	File number UL	E364788
Mechanical data		
Weight	[g]	736.5
Material		stainless steel (1.4404 / 316L); PEEK; PEI; FKM
Materials (wetted parts)		PEEK
Process connection		threaded connection G 1 external thread sealing cone
Remarks		
Remarks	Attention: The unit must only be installed in a process connection for G1 sealing cone.	
	The G1A sealing cone of the unit is only suited for adapters with metal end stop.	
	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		
		

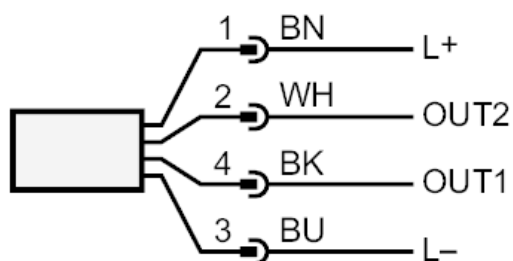
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## Inductive conductivity sensor

IND CONDUCTIVITY HYG G1 SC

### Connection



OUT1            IO-Link  
OUT2            analog output  
Colors to DIN EN 60947-5-2  
Core colors :

BK =            black  
BN =            brown  
BU =            blue  
WH =            white