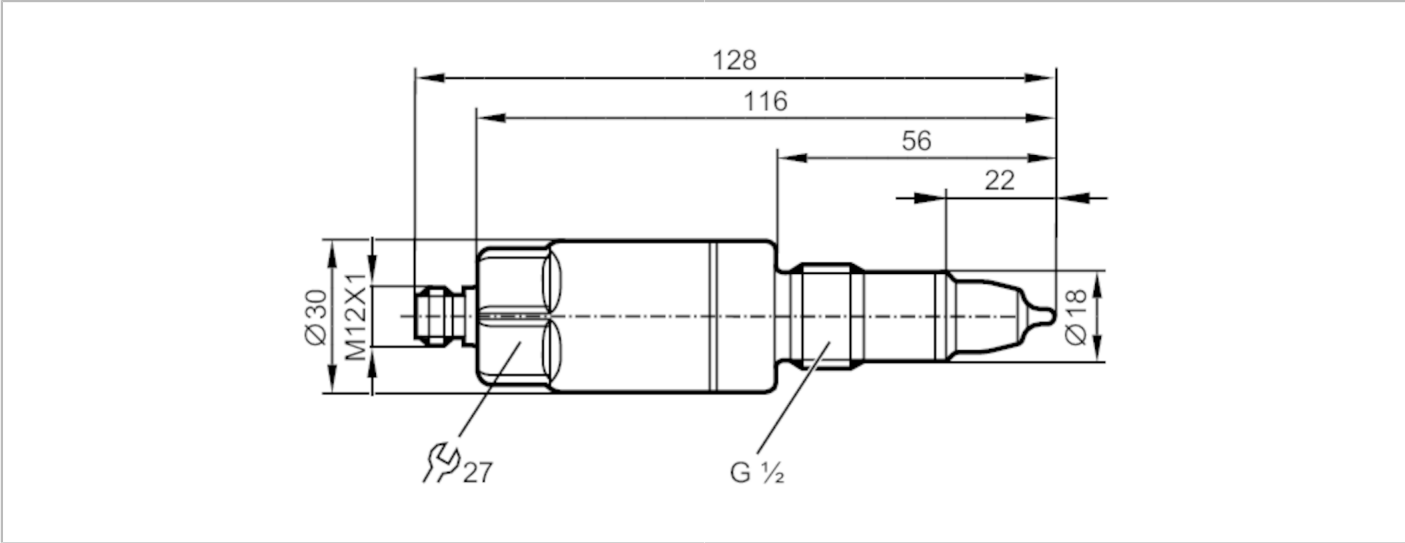




Conductive conductivity sensor

COND CONDUCTIVITY HYG G1/2

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	threaded connection G 1/2 external thread sealing cone

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 [bar]	16
Pressure rating [MPa]	1.6
Vacuum resistance [mbar]	-1000

Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 60
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	2
Measuring principle	konduktiv

Inputs / outputs

Number of inputs and outputs	Number of analogue outputs: 1
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Outputs

Total number of outputs	1
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Conductive conductivity sensor

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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 [$\mu\text{S/cm}$]	100...15000
Resolution [$\mu\text{S/cm}$]	1
Temperature measurement	
Measuring range [$^{\circ}\text{C}$]	-25...150

Accuracy / deviations

Conductivity measurement	
Accuracy (in the measuring range)	10 % MW \pm 25 $\mu\text{S/cm}$
Drift [%/K]	0,2 %/K MW \pm 25 $\mu\text{S/cm}$
Repeatability	5 % MW \pm 25 $\mu\text{S/cm}$
Long-term stability	1 % MW \pm 25 $\mu\text{S/cm}$
Temperature measurement	
Accuracy [K]	20...50 $^{\circ}\text{C}$: $< \pm 0,5$ K; -25...150 $^{\circ}\text{C}$: $< \pm 1,5$ 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]	< 9 ; (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 type	A				
Process data analogue	1				
Min. process cycle time [ms]	5.6				
Supported DeviceIDs	<table> <tr> <th>Type of operation</th><th>DeviceID</th></tr> <tr> <td>default</td><td>921</td></tr> </table>	Type of operation	DeviceID	default	921
Type of operation	DeviceID				
default	921				

Operating conditions


Ambient temperature [$^{\circ}\text{C}$]	-40...60
Storage temperature [$^{\circ}\text{C}$]	-40...85

LDL100



Conductive conductivity sensor

COND CONDUCTIVITY HYG G1/2

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]		172	
Mechanical data			
Weight [g]		270.5	
Materials		stainless steel (316L/1.4404); PEEK; PEI; FKM	
Materials (wetted parts)		PEEK; stainless steel (316L/1.4404)	
Process connection		threaded connection G 1/2 external thread sealing cone	
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: gold-plated			
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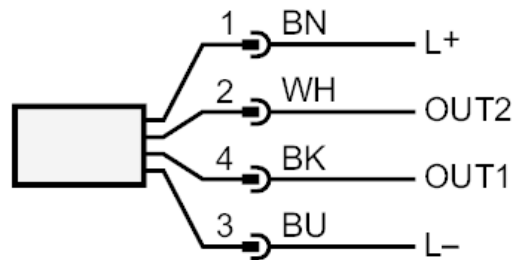
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Conductive conductivity sensor

COND CONDUCTIVITY HYG G1/2

Connection



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