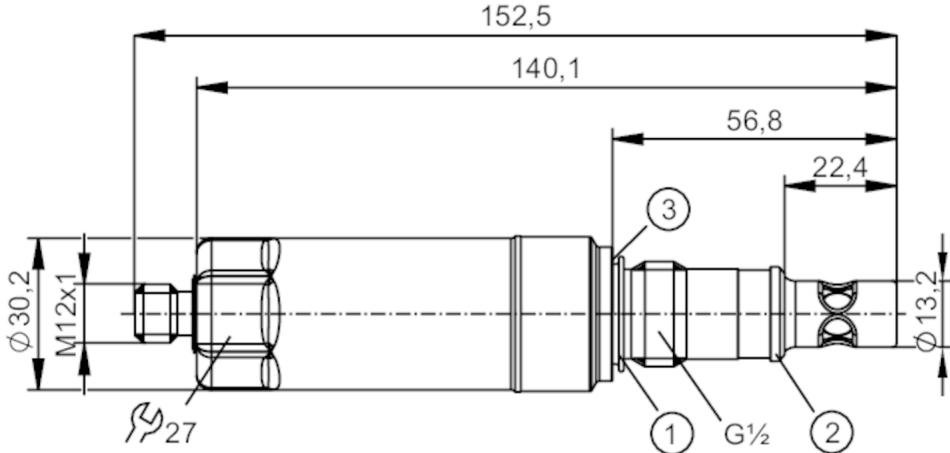


Conductive conductivity sensor

COND CONDUCTIVITY UPW 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.



- 1 Gasket FKM (for sealing on the back - not pressure resistant) / removable
- 2 pre-mounted PEEK sealing ring (removable) / metallic sealing area
- 3 groove for sealing ring DIN 3869-21

EC 1935/2004 EHEDG Certified

Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Process connection	threaded connection G 1/2 external thread sealing cone optional:hygienic PEEK gasket according to EHEDG

Application

Special feature	Gold-plated contacts
Media	conductive liquids
Note on media	ultra-pure water
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]	< 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
Output signal	analogue signal; IO-Link

LDL101



Conductive conductivity sensor

COND CONDUCTIVITY UPW HYG G1/2

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]		0.04...1000
Resolution [µS/cm]	0...9,999	0.001
	10...99,99	0.01
	100...1000	0.1
Temperature measurement		
Measuring range [°C]		-25...150
Accuracy / deviations		
conductivity measurement		
Accuracy (in the measuring range)		3 % MW ± 0,03 µS/cm
Drift [%/K]		0,1 %/K MW
Repeatability		1 % MW ± 0,010 µS/cm
Long-term stability		1,5 % MW ± 0,015 µS/cm
Temperature measurement		
Accuracy [K]		20...50 °C: < ± 0,5 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]		< 9; (T09)
Interfaces		
Communication interface		
Transmission type		IO-Link
IO-Link revision		COM2 (38,4 kBaud)
SDCI standard		1.1
Profiles		IEC 61131-9
SIO mode		Measuring Sensor, Identification and Diagnosis
Required master port type		no
Process data analogue		A
Min. process cycle time [ms]		1
5.6		
Supported DeviceIDs	Type of operation	DeviceID
	default	1455
Operating conditions		
Ambient temperature [°C]		-40...60
Storage temperature [°C]		-40...85

LDL101



Conductive conductivity sensor

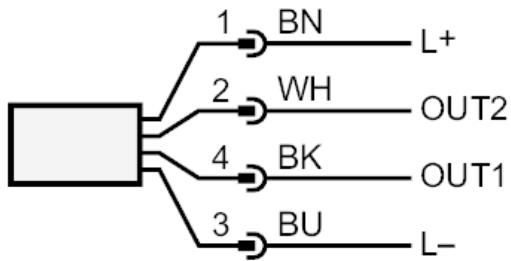
COND CONDUCTIVITY UPW HYG G1/2

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]		173		
Mechanical data				
Weight [g]		329.9		
Materials	stainless steel (316L/1.4404); PEI; FKM			
Materials (wetted parts)	stainless steel (316L/1.4435); PEEK			
Process connection	threaded connection G 1/2 external thread sealing cone optional:hygienic PEEK gasket according to EHEDG			
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				
				

Conductive conductivity sensor

COND CONDUCTIVITY UPW 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