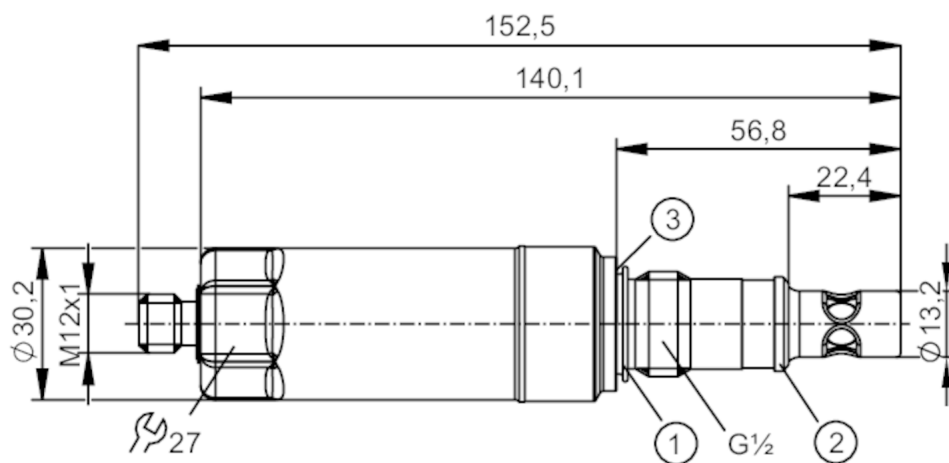




Conductive conductivity sensor

COND CONDUCTIVITY UPW HYG G1/2

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 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

FCM



Product characteristics

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

Application

System	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 analog outputs: 1
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Outputs

Total number of outputs	1
Output signal	analog signal; IO-Link



Conductive conductivity sensor

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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]	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	
Reaction 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 class		A	
Process data analog		1	
Min. process cycle time	[ms]	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)
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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	
Material	stainless steel (1.4404 / 316L); PEI; FKM	
Materials (wetted parts)	stainless steel (1.4435 / 316L); 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 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



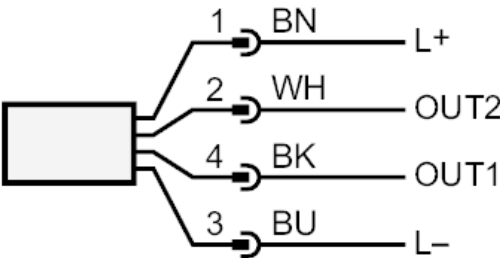
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Conductive conductivity sensor

COND CONDUCTIVITY UPW HYG G1/2

Connection



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