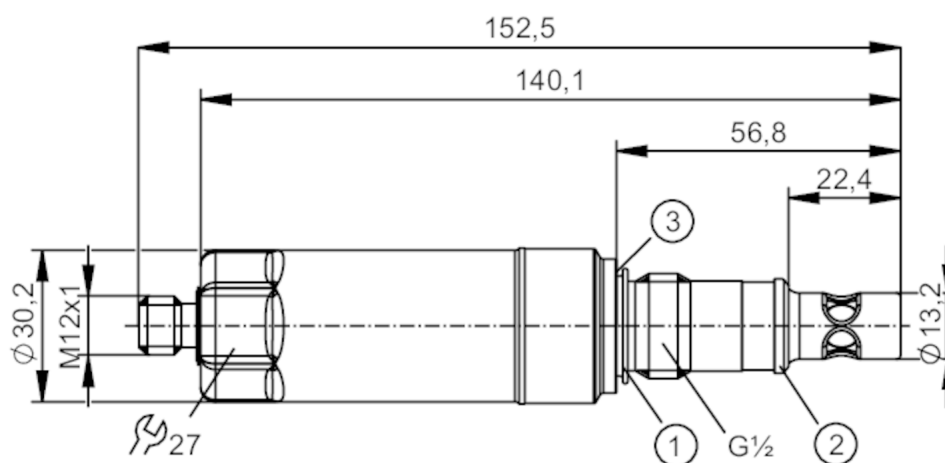




Conductive conductivity sensor

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

FCM



IO-Link



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



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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		
Temperature measurement			
Measuring range [°C]	-25...150		
Accuracy / deviations			
Conductivity measurement			
Accuracy (in the measuring range)	3 % MW ± 0,03 μS/cm		
Resolution [μS/cm]	0,001	(0...9,999)	
	0,01	(10...99,99)	
	0,1	(100...1000)	
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	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	Type of operation	DeviceID	
	Default	1455	
Operating conditions			
Ambient temperature [°C]	-40...60		
Storage temperature [°C]	-40...85		



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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	
Materials	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 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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Connection



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