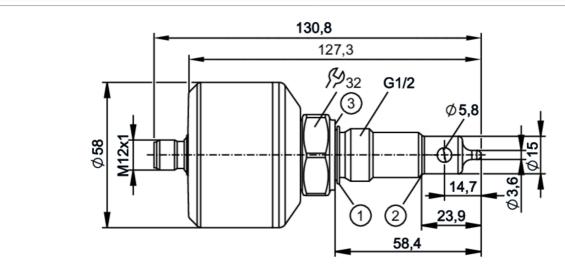
Inductive conductivity sensor





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 2 3

Gasket FKM (for sealing on the back - not pressure resistant) / removable Sealing edge Note: The unit must only be installed in a process connection for G1/2 sealing cone. groove for sealing ring DIN 3869-21













Product characteristics			
Number of inputs and outputs		Number of analog outputs: 1	
Process connection		threaded connection G 1/2 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]	-25100; (< 1 h: 150)	
Pressure rating	[bar]	16	
Vacuum resistance	[mbar]	-1000	
Electrical data			
Operating voltage	[V]	1830 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	
Outputs			
Total number of outputs		1	

Inductive conductivity sensor

IND CONDUCTIVITY HYG G1/2 SC



Output signal			analog signal; IO-Link	
Output function		analog output; scalable; selectable conductivity / temperature		
Number of analog outputs		1		
Analog current output	[mA]	420		
Max. load	[Ω]	500		
Measuring/setting rang	е			
Conductivity measureme	nt			
Measuring range	[µS/cm]	1001000000		
Resolution	[µS/cm]	010.000	1	
		10.000100.000	10	
		100.0001.000.000	100	
Temperature measureme				
Measuring range	[°C]		-25150	
Accuracy / deviations				
Conductivity measureme	nt			
Accuracy (in the measuri range)	ng		2% MW $\pm 25~\mu$ S/cm	
Drift	[%/K]	0,05 %/K MW		
Repeatability		1% MW \pm 25 μ S/cm		
Long-term stability			1 % MW ± 25 μS/cm	
Temperature measureme	ent			
Accuracy	[K]		2050 °C: < ± 0,2 K; -25150 °C: < ± 1,5 K	
Repeatability	[K]		0,2	
Resolution	[K]		0.1	
Reaction times				
Conductivity measureme	nt			
Response time	[s]		< 2; (T09; Damping = 0)	
Temperature measureme	ent			
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	SS	A		
Process data analog		1		
Min. process cycle time	[ms]		5.6	
Supported DeviceIDs		Type of operation	DeviceID	
		default	922	
Operating conditions				
Ambient temperature	[°C]	-4060		
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Inductive conductivity sensor





Storage temperature	[°C]	-4085			
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 (102000 Hz)		
MTTF	[years]	131			
Mechanical data					
Weight	[g]	606.2			
Material		stainless steel (1.4404 / 316L); PEEK; PEI; FKM			
Materials (wetted parts)		PEEK			
Process connection		threaded connection G 1/2 external thread sealing cone			
Remarks					
Remarks		Note: The unit must only be installed in a process connection for G1/2 sealing cone.			
			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

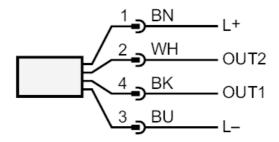


Inductive conductivity sensor

IND CONDUCTIVITY HYG G1/2 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