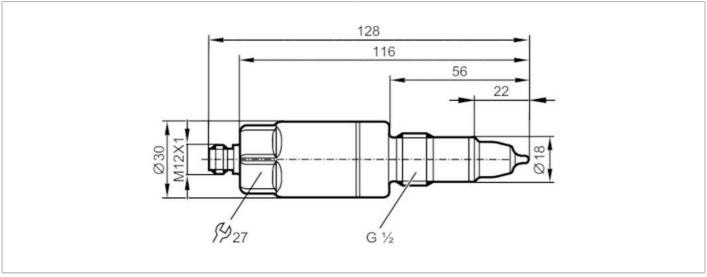
LDL100

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 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]		-25100; (< 1 h: 150)		
Pressure rating	[bar]	16		
Vacuum resistance	[mbar]	-1000		
Electrical data				
Operating voltage	[V]	1830 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		
Outputs				
Total number of outputs		1		
Output signal		analogue signal; IO-Link		

LDL100

Conductive conductivity sensor



COND CONDUCTIVITY HYG G1/2

Output function		analogue output; scalable; selectable conductivity / temperature				
Number of analogue outputs		1				
Analogue current output [mA]		420				
Max. load	[Ω]	500				
Measuring/setting range						
Conductivity measurement						
Measuring range	[µS/cm]	10015000				
Temperature measuremen	nt					
Measuring range	[°C]	-25150				
Accuracy / deviations						
Conductivity measuremen	t					
Accuracy (in the measurin range)	g	10 % MW ± 25 μS/cm				
Resolution	[µS/cm]	1				
Drift	[%/K]	0,2 %/K MW ± 25 μS/cm				
Repeatability		5 % MW ± 25 μS/cm				
Long-term stability		1 % MW ± 25 μS/cm				
Temperature measurement						
Accuracy	[K]	2050 °C: < ± 0,5 K; -25150 °C: < ± 1,5 K				
Repeatability	[K]	0,2				
Resolution	[K]	0.1				
Response times						
Conductivity measuremen	t					
Response time	[s]	< 2; (T09; Damping = 0)				
Temperature measuremen	nt					
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		А				
Process data analogue		1				
Min. process cycle time	[ms]	5.6				
Supported DeviceIDs		Type of operation DeviceID				
		Default 921				
Operating conditions						
Ambient temperature	[°C]	-4060				
Storage temperature	[°C]	-4085				
Protection		IP 68; IP 69K; (7 days / 3 m water depth / 0.3 bar: IP 68)				

LDL100

Conductive conductivity sensor

COND CONDUCTIVITY HYG G1/2



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]	172					
Mechanical data							
Weight	[g]	270.5					
Materials		stainless steel (1.4404 / 316L); PEEK; PEI; FKM					
Materials (wetted parts)		PEEK; stainless steel (1.4404 / 316L)					
Process connection		threaded connection G 1/2 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.

1 pcs.

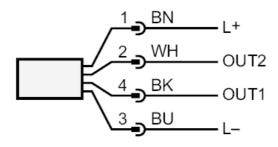
Electrical connection

Pack quantity

Connector: 1 x M12 (EN 61067-2-101); coding: A; Contacts: gold-plated



Connection



OUT1 IO-Link

OUT2 analogue output

colours to DIN EN 60947-5-2

Core colours:

 BK =
 black

 BN =
 brown

 BU =
 blue

 WH =
 white