

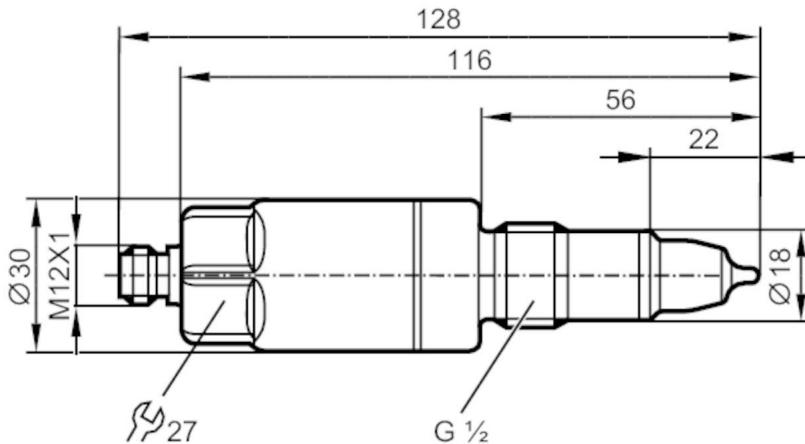
# LDL100



## Conductive conductivity sensor

COND CONDUCTIVITY 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.



EC 1935/2004 EHEDG Certified FCM FDA



### 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]	-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

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

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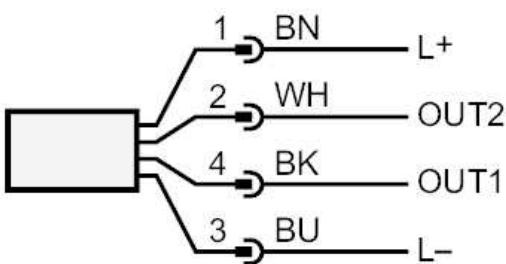
Output function	analog output; scalable; selectable conductivity / temperature	
Number of analog outputs		1
Analog current output	[mA]	4...20
Max. load	[Ω]	500
<b>Measuring/setting range</b>		
conductivity measurement		
Measuring range	[µS/cm]	100...15000
Resolution	[µS/cm]	1
Temperature measurement		
Measuring range	[°C]	-25...150
<b>Accuracy / deviations</b>		
conductivity measurement		
Accuracy (in the measuring range)		10 % MW ± 25 µS/cm
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]	20...50 °C: < ± 0,5 K; -25...150 °C: < ± 1,5 K
Repeatability	[K]	0,2
Resolution	[K]	0,1
<b>Reaction times</b>		
conductivity measurement		
Response time	[s]	< 2; (T09; Damping = 0)
Temperature measurement		
Response time	[s]	< 9; (T09)
<b>Interfaces</b>		
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 class		no
Process data analog		A
Min. process cycle time	[ms]	1
Supported DeviceIDs		5.6
	<b>Type of operation</b>	<b>DeviceID</b>
	default	921
<b>Operating conditions</b>		
Ambient temperature	[°C]	-40...60
Storage temperature	[°C]	-40...85
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]		172		
Mechanical data				
Weight [g]		270.5		
Material	stainless steel (1.4404 / 316L); PEEK; PEI; FKM			
Materials (wetted parts)	PEEK; stainless steel (1.4404 / 316L)			
Process connection	threaded connection G 1/2 external thread sealing cone			
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				
				
Connection				
				
OUT1	IO-Link			
OUT2	analog output			
Colors to DIN EN 60947-5-2				
Core colors :				
BK =	black			
BN =	brown			
BU =	blue			
WH =	white			