

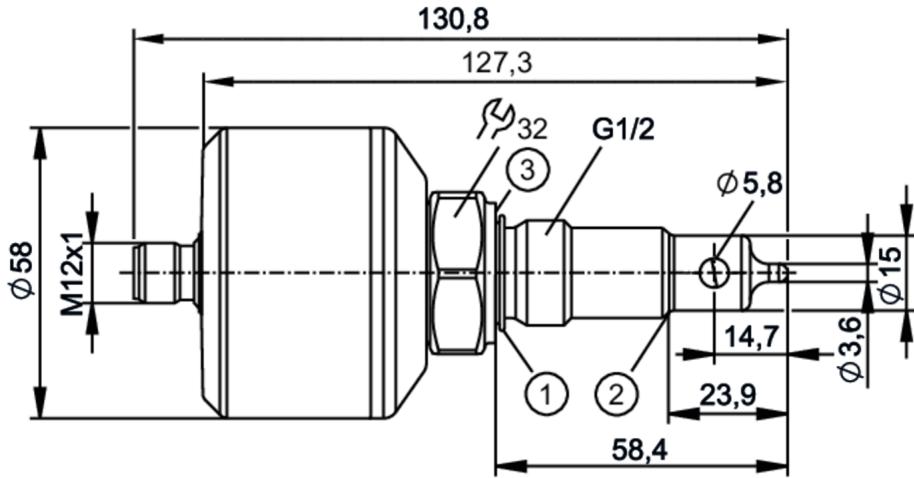
# LDL220



## Inductive conductivity sensor

IND CONDUCTIVITY HYG G1/2 SC

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 Sealing edge Note: The unit must only be installed in a process connection for G1/2 sealing cone.
- 3 groove for sealing ring DIN 3869-21



EC 1935/2004 EHEDG Certified FCM FDA IO-Link UK CA

### 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]	< 100
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	2
Measuring principle		induktiv

### Inputs / outputs

Number of inputs and outputs	Number of analog outputs: 1
------------------------------	-----------------------------

### Outputs

Total number of outputs	1
-------------------------	---

# LDL220



## 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	4...20	
Max. load	500	
<b>Measuring/setting range</b>		
Conductivity measurement		
Measuring range	[\mu S/cm]	100...1000000
Temperature measurement		
Measuring range	[\text{°C}]	-25...150
<b>Accuracy / deviations</b>		
Conductivity measurement		
Accuracy (in the measuring range)	2 % MW ± 25 μS/cm	
Resolution	[\mu S/cm]	1 (0...10000) 10 (10000...100000) 100 (100000...1000000)
Drift	[%/K]	0,05 %/K MW
Repeatability	1 % MW ± 25 μS/cm	
Long-term stability	1 % MW ± 25 μS/cm	
Temperature measurement		
Accuracy	[K]	20...50 °C: < ± 0,2 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]	< 40; (T09)
<b>Interfaces</b>		
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	922
<b>Operating conditions</b>		
Ambient temperature	[\text{°C}]	-40...60

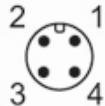
# LDL220



## Inductive conductivity sensor

IND CONDUCTIVITY HYG G1/2 SC

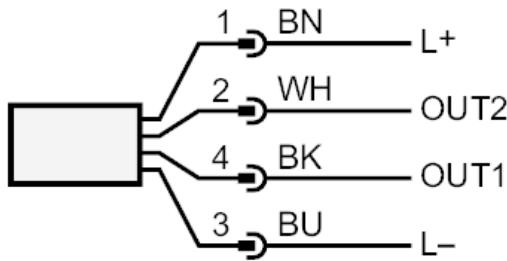
Storage temperature	[°C]	-40...85
Protection		IP 68; IP 69K; (7 days / 3 m water depth / 0.3 bar: IP 68)
<b>Tests / approvals</b>		
EMC		DIN EN 61000-6-2
		DIN EN 61000-6-3
Shock resistance		DIN EN 60068-2-27
Vibration resistance		DIN EN 60068-2-6
MTTF	[years]	131
<b>Mechanical data</b>		
Weight	[g]	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
<b>Remarks</b>		
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.
<b>Electrical connection</b>		
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