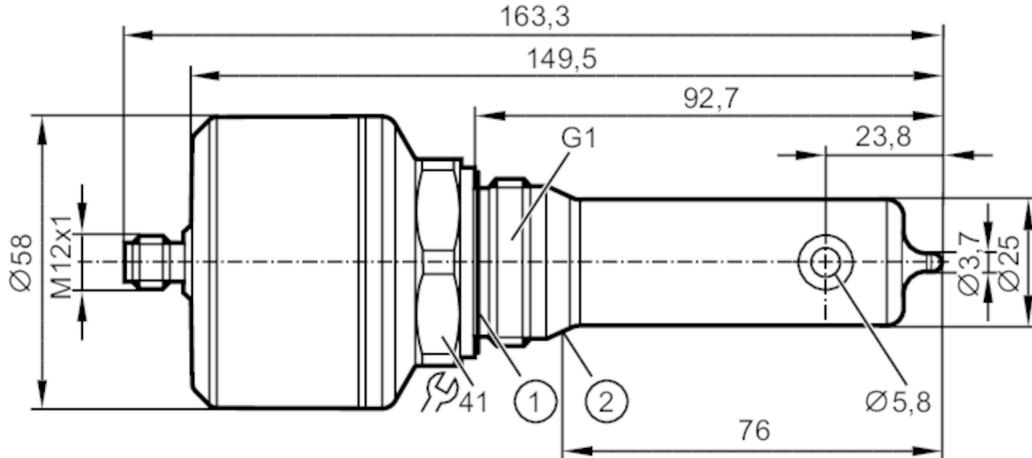


## Inductive conductivity sensor

IND CONDUCTIVITY HYG ASF-V 077

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 Sealing  
2 sealing edge



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

### Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Process connection	G 1 external thread Aseptoflex Vario

### 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]	-25...100; (< 1 h: 150)
Pressure rating	[bar]	16
Vacuum resistance	[mbar]	-1000

### Electrical data

Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 50
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 analogue outputs: 1
------------------------------	-------------------------------

### Outputs

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

# LDL201



## Inductive conductivity sensor

IND CONDUCTIVITY HYG ASF-V 077

Output signal		analogue signal; IO-Link
Output function		analogue output; scalable; selectable conductivity / temperature
Number of analogue outputs		1
Analogue current output	[mA]	4...20
Max. load	[Ω]	500
<b>Measuring/setting range</b>		
conductivity measurement		
Measuring range	[µS/cm]	100...1000000
Resolution	[µS/cm]	0...10.000 10.000...100.000 100.000...1.000.000
		1 10 100
Temperature measurement		
Measuring range	[°C]	-25...150
<b>Accuracy / deviations</b>		
conductivity measurement		
Accuracy (in the measuring range)		2 % MW ± 25 µS/cm
Drift	[%/K]	0,1 %/K MW ± 25 µS/cm
Repeatability		1 % MW ± 25 µS/cm
Long-term stability		0,5 % 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>Response times</b>		
conductivity measurement		
Response time	[s]	< 2; (T09; Damping = 0)
Temperature measurement		
Response time	[s]	< 40; (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 type		no
Process data analogue		A
Min. process cycle time	[ms]	1
5.6		
Supported DeviceIDs	Type of operation	DeviceID
	default	922
<b>Operating conditions</b>		
Ambient temperature	[°C]	-40...60

# LDL201



## Inductive conductivity sensor

IND CONDUCTIVITY HYG ASF-V 077

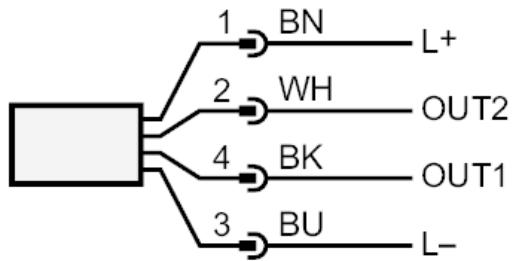
Storage temperature	[°C]	-40...85		
Protection		IP 68; IP 69K; (7 days / 3 m water depth / 0.3 bar: IP 68)		
<b>Tests / approvals</b>				
EMC	DIN EN 61000-6-2			
	DIN EN 61000-6-3	in a closed metal tank		
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)		
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)		
MTTF [years]		129		
UL approval	File number UL	E364788		
<b>Mechanical data</b>				
Weight [g]		749.7		
Materials	stainless steel (316L/1.4404); PEEK; PEI; FKM			
Materials (wetted parts)	PEEK			
Process connection	G 1 external thread Aseptoflex Vario			
<b>Remarks</b>				
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.			
<b>Electrical connection</b>				
Connector: 1 x M12 (EN 61067-2-101); coding: A; Contacts: gold-plated				



## Inductive conductivity sensor

IND CONDUCTIVITY HYG ASF-V 077

### Connection



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