



Process sensors

Conductivity sensor LDL100 for interface detection – a new approach



Analytical sensors



Reduce inaccuracies associated with a time-based cleaning process

Improve process performance with flexible measurement points

Compact, high-quality sensor design prevents failures and unplanned downtime

➤ Simplify your installation and commissioning processes

➤ Loss-free signal transmission of measurement values



Applications

The differentiation between media plays an important role, especially in the food industry. Cleaning agents, rinsing water and food products located in process pipes have different conductivity values and can therefore be easily and reliably detected.

Benefits

Product validation is possible at all times. Quick and reliable differentiation between the media leads to a reduction in wasted product and rinsing water.

Handling

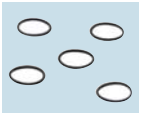




The ability to differentiate between products is an out-of-the-box solution. During installation it is not necessary to make adjustments to the sensor. Enhanced functions are available such as simulation.



Advantages of LDL at a glance:

- Much shorter commissioning time**
- No need for additional evaluation electronics
 - Simple wiring using M12
- Robust and compact design**
- The fully welded stainless steel housing prevents water ingress
- Attractive offer**
- High availability and fast delivery times
 - Flexible adapter concept reduces / simplifies warehousing

Accessories

Type	Description	Order no.
Mounting		
	O-ring 18.72 x 2.62; FKM, 5 pieces	E43326
Mounting adapter		
	G 1/2 I – G 3/4 A	E43302
	G 1/2 I – G 1 A	E43303
	G 1/2 I – Clamp 1" -1.5" with leakage port	E43311
	G 1/2 I – Clamp 2" -1.5" with leakage port	E43312
	G 1/2 I – Clamp 1"	E33401
	G 1/2 I – Clamp 1"	E33402
	G 1/2 – Varivent Form N 1.5" (DN40-125); D = 68	E43307
	G 1/2 – Varivent Form F 1" (DN25); D = 50	E43306
	G 1/2 – SMS DN25	E33430
	G 1/2 – SMS DN50	E43344
	G 1/2 – ASEPTOFLEX Vario	E43458
	G 1/2 – UPJ adaption (Ø 42mm)	E43329
	G 1/2 – M30X1.5	E43325
	G 1/2 – process adapter pipe fitting 1.5" (DN40)	E43305

Process connection	Insertion depth [mm]	Order no.
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Application: Media differentiation between product /rinsing water / cleaning agent

G 1/2	22	LDL100
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Further technical details

Operating voltage	[V DC]	18...30
Current consumption	[mA]	< 60
Measurement range conductivity	[µS/cm]	100...15,000
Measurement range medium temperature	[°C]	-25...100; (< 1 h: 150)
Pressure rating	[bar]	16
Accuracy conductivity		10 % MW ± 25 µS/cm
Repeatability conductivity		5 % MW ± 25 µS/cm
Materials		1.4404 (stainless steel / 316L); PEEK; PEI; FKM

Accessories

Type	Description	Order no.
Welding adapter		
	G 1/2 – D30 for tanks	E43300
	G 1/2 – D29 for pipes	E43301
	G 1/2 – D30 with leakage port for tanks	E43309
	G 1/2 with leakage port for pipes	E43310
	G 1/2 – D45 with leakage port	E43315
	G 1/2 – D45 collar	E30056
	G 1/2 – D35 ball	E30055
	G 1/2 – D50 long design for deeper insertion	E43319
T-pieces		
	G 1/2 I – DN25	E43316
	G 1/2 I – DN40	E43317
	G 1/2 I – DN50	E43318
IO-Link		
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 kBit/s)	E30390
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011