Conductive Level Switch
Compact Probe

LNK-K

- p_{max}: 10 bar; t_{max}: 100 °C (150 °C for CIP process)
- Electrode
- Process connection: G ½ installation meets hygiene standards through EHEDG-certified installation system LZE
- Materials approved for handling of foodstuffs
- Optional: integrated evaluating electronics
- Optional: E-CTFE coating

CERTIFIED EHEDG TYPE EL NOVEMBER 2004

When using LZE-hygienic installation system

Weld-in sleeve LZE

Level

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Description

The conductive KOBOLD level probes LNK-K are use for level measurement. The electrical resistance between metallic vessel and level electrode is measured and evaluated.

In combination with the KOBOLD LZE or LZE-R weld-in sleeves, the probe provides a measuring point that has no dead space and meets hygiene standards and (EHEDG approval certificate). This level switch is therefore very well suited for CIP/SIP cleaning and because of its compact design the device is suitable for almost every measurement.

The KOBOLD probes LNK-K are also available with integrated evaluating electronics. The output signal (24 V_{DC}) can thus be connected to a PLC for evaluation. This means lower installation costs, minimum wiring requirements and a high degree of noise immunity.

The level probes are connected electronically through an M12x1 plug connection. Different stem lengths are available. The stem may also be E-CTFE coated, so that foaming media can be detected.

Technical Details

Measuring principle:	conductive
Process temperature:	-20...+100°C (150°C for CIP-process)
Ambient temperature:	0...70°C
Operating pressure:	max. 10 bar

Material

• Head, thread supports:	stainless steel 1.4404
• Insulating section:	PEEK
• Electrode stem:	stainless steel 1.4404
• Stem coating:	E-CTFE, coating 0.3 mm
Electrode length:	100, 250, 500, 750, 1000, 1500 mm
Process connection:	G ½, hygienic weld-in sleeves LZE or LZE-R (see page 191ff)
Electric connection:	M12x1 plug connector
Protection:	IP 67
Weight:	approx. 150 g (+ special stem)

Technical Details (continued)

Switch electronics:

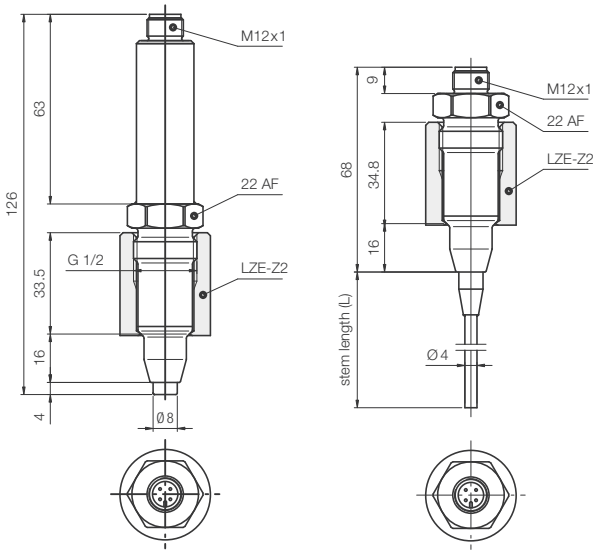
Power supply:	15...36 V_{DC} , 15 mA
Electrode voltage:	2 V_{AC} , 500 Hz
Sensitivity (adjustable):	3 steps 0.2 / 2.0 / 20 kΩ
Function:	Full /empty report (determined via the polarity of the supply voltage)
Output:	PNP, open collector, U_{off} = $V_{vers.}$ - 1.0 V max. 50 mA, short-circuit-proof
Switch delay:	1 s

Applications

- Level monitoring in all conductive media

Dimensions

with switch electronics **without switch electronics**



EHEDG certification of the connection system in combination with built-in sleeve LZE (see page 191-198)

Order Details (Example: **LNK-K 2 0 A 00S**)

Model	Design	Electrode material	Electrode coating	Electrode length	Electr. connection evaluation
LNK-	**K** = compact version	**2** = st. steel 1.4404	**0** = without coating **E** = E-CTFE-coating	**A** = 4 mm stump **B** = 100 mm **C** = 250 mm **D** = 500 mm **E** = 750 mm **F** = 1000 mm **G** = 1500 mm	**00S** = without electronics, M12x1 plug, 4 pole **NPS** = switch electronics, PNP-switch output M12x1 plug, 4 pole

External switch electronic: Electrode relay NE 104 and NE 304 (see brochure N1, page 33-36)