



Conductive Level Switch Compact Probe



measuring
•
monitoring
•
analysing

LNK-K



- p_{\max} : 10 bar; t_{\max} : 100 °C
150 °C for CIP process
- Electrode,
any lengths up to 1500 mm
- Process connections: G 1/2
installation meets hygiene
standards through
EHEDG-certified
installation system LZE
- Materials approved for
handling of foodstuffs
- Optional evaluating electronics
integrated
- Optional:
E-CTFE coating



(When using
LZE-hygienic
installation system)



Weld-in sleeve LZE



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KOBOLD Messring GmbH
Nordring 22-24
D-65719 Hofheim/Ts.
Head Office:
+49(0)6192 299-0
+49(0)6192 23398
info.de@kobold.com
www.kobold.com

Description

The conductive KOBOLD level probes LNK-K are used for level measurement. The electrical resistance between the 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.

Applications

- Level monitoring in all conductive media

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 1/2, hygienic weld-in sleeves LZE or LZE-R
 Connection: M12 x 1-Stecker

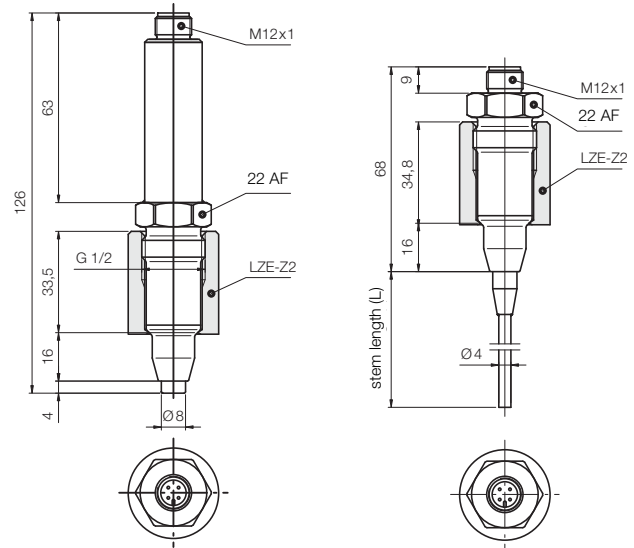
Technical Details (continued)

Protection: IP 67
 Weight: approx. 0.6 kg
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

Dimensions

with switch electronics

without switch electronics



EHEDG certification of the connection system in combination with built-in sleeve LZE.

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

Model	Design	Electrode material	Electrode coating	Electrode length	Evaluation/ Electrical connection
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.