



- $p_{max}$ : 10 bar  
 $t_{max}$ : 100 °C,  
 (150 °C for CIP process)
- 1 to 4 electrode stems,  
 any lengths upto 1500 mm
- Process connections:  
 G 1½, G 1  
 installation meets hygiene  
 standards through  
 EHEDG-certified  
 installation system LZE
- Materials approved for  
 handling of foodstuffs
- Optional head mounted  
 transmitter
- Optional:  
 E-CTFE coating



Weld-in sleeve LZE



KOBOLD companies worldwide:

ARGENTINA, AUSTRIA, BELGIUM, CANADA, CHILE, CHINA, CZECH  
 REPUBLIK, FRANCE, GERMANY, GREAT BRITAIN, INDONESIA, ITALY,  
 MALAYSIA, MEXICO, NETHERLANDS, PERU, POLAND, SWITZERLAND,  
 SINGAPORE, SLOVAKIA, THAILAND, USA, VENEZUELA, VIETNAM

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

**Model:**  
 LNK

**Description:**

The conductive KOBOLD level probes LNK together with the transducer for head mounting or the external evaluating electronic are used for level monitoring. This method is based on the evaluation of the electrical conductivity of the medium. In combination with the KOBOLD LZE or LZE-R (p. 53-60) weld-in sleeves, the probe provides a measuring point that has no dead space and meets hygiene standards (EHEDG approval certificate). This level switch is therefore ideally suited for CIP/SIP cleaning. The level switch is available with 1 or 2-4 electrodes, also available with E-CTFE coating. This allows foaming media to be detected reliably. The output signal from the probes with head mounted transmitter can be connected directly to a PLC for evaluation. This means lower installation costs, minimum wiring requirements and a high degree of noise immunity. The device is available with an optional M12x1 plug connector.

**Fields of use:**

- Level monitoring in all conductive media

**Technical data:**

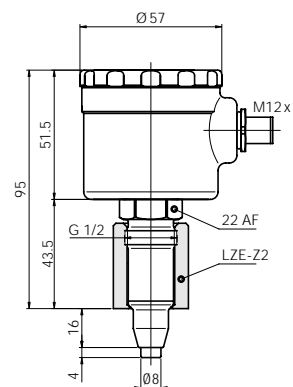
Measuring principle: conductive  
 Process temperature: 0...100 °C, 150 °C for CIP process  
 Ambient temperature: 0...70 °C  
 Operating pressure: max. 10 bar  
 Material  
 • Head, thread supports: stainless steel 1.4404  
 • Insulating section: PEEK  
 • Electrode stem: stainless steel 1.4404  
 • Stem coating: E-CTFE, coating 0.3 mm  
 Electrode length: 4 - 1500 mm  
 Process connection: G 1/2 with 1 electrode stem  
 G 1 with 2-4 electrode stems  
 Connection: cable gland connection  
 M16x1.5  
 optional M12x1 plug  
 Protection: IP 67

**Technical data (continued):**

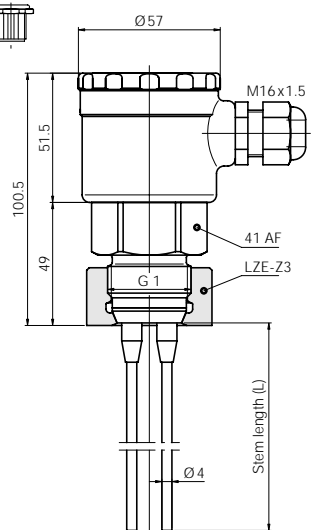
Min. conductivity: 10 µS/cm  
 Weight: approx. 0.6 kg  
**Level module LNR-K1 for one switch point (1 or 2 stem probe)**  
 Power supply: 15...36 V<sub>DC</sub>, 15 mA  
 Electrode voltage: approx. 2 V<sub>AC</sub> / 600 Hz  
 Sensitivity (adjustable): 4 steps 0.1/1/10/100 kΩ  
 Function: Full/empty report (determined via the polarity of the supply voltage)  
 Output: PNP transistor output (open collector),  
 U<sub>off</sub> = +Vs - 1 V  
 max. 50 mA, short-circuit-proof  
 Switch delay (fixed): 1 s  
 Weight: approx. 40 g

**Dimensions:**

**1 stem probe**



**Multi stem probe**



**Order data (Example order): LNK- 1 2 0 A A A A 00K**

Model	Design (Process connection)	Electrode material	Electrode coating	Lengths of 1. stem	Lengths of 2. stem	Lengths of 3. stem	Lengths of 4. stem	Evaluation/ electronic connection
LNK-	1 = 1 electrode (G 1/2) 2 = 2 electrodes (G 1) 3 = 3 electrodes (G 1) 4 = 4 electrodes (G 1)	2 = stainless steel	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 0 = no other stem	A = 4 mm stump B = 100 mm C = 250 mm D = 500 mm E = 750 mm F = 1000 mm G = 1500 mm 0 = no other stem	A = 4 mm stump B = 100 mm C = 250 mm D = 500 mm E = 750 mm F = 1000 mm G = 1500 mm 0 = no other stem	A = 4 mm stump B = 100 mm C = 250 mm D = 500 mm E = 750 mm F = 1000 mm G = 1500 mm 0 = no other stem	00K = without electronic, cable con. M16x1.5 00S = without electronic, M12x1 plug NPK = switching electronic; PNP switch output, thread, cable con. NPS = switching electronic; PNP switch output, M12x1 plug

EHEDG certification of the connection system in combination with weld-in sleeve LZE (see brochure N1, page 53-60)

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