

# Conductive probe

# LKL-P



## CONDUCTIVE PROBE LKL-P

# A PROBE FOR UP TO 5 LIMIT LEVELS



Two, three or five electrodes in rod or cable version are arranged above the medium.

As soon as a conductive fluid makes a connection between the electrodes, a switch signal is triggered. Usable as compact version with integrated electronics or with separate electrode relay.

#### Features

- Optional rod or cable probe for optimal adaptation to the application
- Rod version up to 4 m or cable version up to 15 m
- 2 to 5 switching points can be implemented with one probe, suitable for simple 2-point control
- Simple, robust construction with plastic housing (probe material stainless steel)
- No calibration necessary
- Approvals: ATEX, WHG approval, leakage approval
- Two-point regulation and additional maximum and minimum detection
- No moving parts in tank
- Long service life and reliable functionality without wear or blocking

#### Various electronic modules

- PNP output 10.8 V DC ... 45 V DC
  Relay output 20 V AC ... 253 V AC
- NAMUR electronics
- Compact electronics or connection to a separate evaluation device

### Accessories

- LKL-Z10 fastening nuts G 11/2", hexagonal, SW 60
- LZ-1204 mounting bracket G 1 1/2"

### **Application areas**

The LKL-P conductive probe can be used for overfill monitoring in accordance with WHG, as dry-run protection, for two-point regulation of pumps or multiple-point detection in an existing process connection.

## **ELECTRODE RELAY:**

K-System

External evaluation electronics for conductive probe LKL-P

The electrode relay uses the conductivity of fluids for fill level control.

The integrated voltage and temperature stabilized switch resistor can detect the small alternating current (no directcurrent voltage) which flows between the material and the electrode even with weakly conducting fluids.

#### Features

- 1- or 2-channel relay design
- Minimum/Maximum control
- WHG and ATEX Ex ia II C approvals
- Lead-breakage monitoring
- Lead-breakage status message over Power Rail

## CONDUCTIVE MULTI-ROD/MULTI-CABLE PROBE LKL-P

## Type code

<b>2</b> Ca	able version,	250 mm	15000	) mm								
		cess con										
	G5	Threade	d piece G	1 1/2, PPS	6							
1	N5	5 Threaded piece 1 1/2" NPT, PPS										
	1	Νι	imber, ma	aterial rod	s							
1		<b>2</b> 2 rods, 316L or cable 1.4571										
	I	<b>3</b> 3 rods, 316L or cable 1.4571										
		5 rods, 316L or cable 1.4571										
1				obe/cable								
1	1	A mm, probe length Rod: 100 mm 4000 mm Cable: up to 15 m										
1			B	inch, pro	-							
1	 		C	1000 mr	•		-					
1	 		D	_	n rod prot	de lei	ngtn					
1	l I	1	1		lousing	o ho	uning ID(		.1 E			
1	1	1	1		<b>P1</b> Plasti		-					
1	1	I     I     Pw     Plastic housing IP66, NPT 1/2"       I     I     P3     Plastic housing IP66, G 1/2"										
1	1		1	Electrical output								
	· ·	, I	1					e instrum	nenta	ation		
·							Electronics installable at a later date					
i i	l l	Ĩ	l l	I		E5	FEW52 output PNP 10.8 V DC 45 V DC					
1	I		I	I				54 relay output 20 V AC 253 V AC				
1	I		I	I	I	N1	FEW58	Namur				
1	I	1	1	I			Op	otional e	quip	oment		
1	I		I	I			Ν	withou	t opt	ional equipment		
I	I		1	I			Y	Specia				
I	I		I	I			I		Cert	ificates		
I	I		I	I			I			Variants for safe areas		
	I			I			I			Overfill protection WHG, with leakage approval		
I	I		I	I			I			*ATEX II 2G EEx ia IIC T5 T6, WHG		
	I		I	I			I		EC	*ATEX II 3G EEx nA/C(L) IIC T6, WHG		
1	1											
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only for probe lengths in mm or inches

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