

- 1: 4-digit alphanumeric display  
2: LEDs  
3: Programming buttons  
4: Housing connection (flat-pin connector 6.3 mm following DIN 46244)



Made in Germany

### Product characteristics

Electronic level sensor

Connector

Probe length: L = 472 mm

2 switching outputs

4-digit alphanumeric display

### Application

Application coolants / oils

#### Medium temperature oil

- Continuous	[°C]	0...70
- Short time	[°C]	0...90

Medium temperature water and hydrous media [°C] 0...35 (LK1023 + E43101: 0...60) \*\*

Medium temperature coolant emulsions [°C] 0...35 (LK1023 + E43101: 0...60) \*\*

Maximum speed of the change of level [mm/s] 200

### Electrical data

Electrical design	DC PNP
Operating voltage [V]	18...30 DC
Current consumption [mA]	< 60
Protection class	III
Reverse polarity protection	yes

### Outputs

Output	2 switching outputs
Output function	2 x normally open / closed programmable
Current rating [mA]	200
Voltage drop [V]	< 2.5
Short-circuit protection	thermal, pulsed



LK0472B-B-00KQPKG/US

**Level sensors**

Overload protection	yes
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**Measuring / setting range**

Probe length L	[mm]	472
Active range A	[mm]	390
Inactive range I1 / I2	[mm]	53 / 30
Setting range		
Set point, SP	[mm]	40...395
Reset point, rP	[mm]	35...390
in steps of	[mm]	5
Hysteresis	[mm]	5
Overflow protection OP	[mm]	139 - 163 - 188 - 212 - 236 - 261 - 285 - 310 - 334 - 358 - 383 - 407
Hysteresis OP	[mm]	3

**Accuracy / deviations**

Deviations (% of value of measuring range)	
Switch point accuracy	± 5
Repeatability	± 2

**Reaction times**

Power-on delay time	[s]	3
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**Software / programming**

Programming options	hysteresis / window function; N.O. / N.C; position of SP/rP; position of OP; OP adjustment; medium adjustment; offset; display unit
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**Environment**

Ambient temperature	[°C]	0...60
Storage temperature	[°C]	-25...80
Maximum vessel pressure	[bar]	0.5 (when mounted with mounting accessories E43001 - E43007)
Protection		IP 67

**Tests / approvals**

EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-6 HF conducted: 10 V
Shock resistance	DIN EN 60068-2-29: 15 g (11 ms)
Vibration resistance	DIN EN 60068-2-6: 5 g (10...2000 Hz)
MTTF	[Years] 228

**Mechanical data**

Materials (wetted parts)	PP
Housing materials	stainless steel (304S15); FKM; NBR; PBT; PC; PEI; PP; TPE / V
Weight	[kg] 0.412

**Displays / operating elements**

Display	Display unit / status 2 x LED green Switching status 2 x LED yellow Measured values 4-digit alphanumeric display Programming 4-digit alphanumeric display
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**Electrical connection**

Connection	M12 connector (according to EN 61076-2-101); gold-plated contacts
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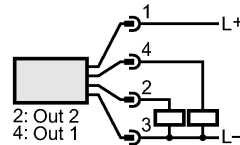
**Wiring**



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Level sensors

Programming of the output function:  
Hno = hysteresis / normally open  
Hnc = hysteresis / normally closed  
Fno = window function / normally open  
Fnc = window function / normally closed



Remarks	
Remarks	cULus - Class 2 source required **) for water and hydrous media with temperatures > 35 °C install the unit into a climatic tube (order no. E43101)
Pack quantity	[piece] 1
Other data	
Recommended media	Hydrous coolants, oils, water, media similar to water
Cannot be used for:	extremely conductive and adhering media, granulates and bulk materials, acids and alkalis, food and electroplating applications
Dielectric constant medium	> 2