

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
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#### Medium temperature oil

- Continuous	[°C]	0...70
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- Short time	[°C]	0...90
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Medium temperature water and hydrous media	[°C]	0...35 (LK1023 + E43101: 0...60) **)
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Medium temperature coolant emulsions	[°C]	0...35 (LK1023 + E43101: 0...60) **)
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Maximum speed of the change of level	[mm/s]	200
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### Electrical data

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

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

#### 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: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-6 HF conducted:	4 kV CD / 8 kV AD 10 V/m 2 kV 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]

#### 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

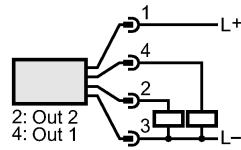
Connection	M12 connector (according to EN 61076-2-101); gold-plated contacts
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#### Wiring

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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

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