

- 1: 7-segment LED display
- 2: Programming buttons
- 3: Housing connection with cable lug for cable 1.5 - 2.5 mm²



Product characteristics

Electronic level sensor

Quick disconnect

WHG § 19 approved

Probe length: L = 472 mm

1 operating output (OUT1)

1 overflow output (OUT-OP)

7-segment LED display

Application

Application

Cannot be used for:

Dielectric constant medium

Medium temperature oil [°C]

Medium temperature water and hydrous media [°C]

Medium temperature coolant emulsions [°C]

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

Electrical data

Electrical design

Operating voltage [V]

Current consumption [mA]

Protection class

Reverse polarity protection

Outputs

Output

Output function

Current rating [mA]

Voltage drop [V]

Hydrous coolants, oils, water, media similar to water

extremely conductive and adhering media, granulates and bulk materials, acids and alkalis, food and electroplating applications

> 2

0...65

0...35

0...35

200

DC PNP

12...30 DC

< 60

III

yes

1 operating output (OUT1)

1 overflow output (OUT-OP)

1 x normally open / closed programmable (OUT1)

1 x normally closed (OUT-OP, overflow output)

200

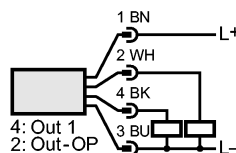
< 2.5

LK1223 - Electronic level sensor - eclass: 27371813 / 27-37-18-13

Short-circuit protection	yes (non-latching)
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...390
Reset point, rP [mm]	35...385
in steps of [mm]	5
Hysteresis [mm]	5
Overflow switch point 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
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
Environment	
Ambient temperature [°C]	0...60
Storage temperature [°C]	-25...80
Maximum vessel pressure [bar]	0.5 (only for applications without pressure)
Protection	IP 67
Tests / approvals	
Approval	WHG § 19
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 61000-4-5 Surge: 500 V / 1 kV EN 61000-4-6 HF conducted: 10 V
Shock resistance	DIN EN 60068-2-29: 12 g (11 ms)
Vibration resistance	DIN EN 60068-2-6 2.5 g (10...2000 Hz)
MTTF [Years]	278
Mechanical data	
Materials (wetted parts)	PP (polypropylene)
Housing materials	EPDM/X (Santoprene); FPM (Viton); brass white bronze coated; NBR (Buna N); PBT (Pocan); PC (Makrolon); PP (polypropylene); PA (polyamide)
Weight [kg]	0.587
Displays / operating elements	
Display	Switching status 2 x LED red Measured values 7-segment LED display Programming 7-segment LED display
Electrical connection	
Connection	M12 connector; gold-plated contacts

Wiring

OUT1 = operating output
OUT-OP = overflow output



Remarks

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Pack quantity [piece] 1

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