

- 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 = 728 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 (LK1024 + E43102: 0...55) **

Medium temperature coolant emulsions [°C]: 0...35 (LK1024 + E43102: 0...55) **

Maximum speed of the change of level [mm/s]: 300

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



LK0728B-B-00KQPKG/US

Level sensors

Overload protection	yes
---------------------	-----

Measuring / setting range

Probe length L	[mm]	728
Active range A	[mm]	585
Inactive range I1 / I2	[mm]	102 / 40
Setting range		
Set point, SP	[mm]	60...590
Reset point, rP	[mm]	50...580
in steps of	[mm]	10
Hysteresis	[mm]	10
Overflow protection OP	[mm]	200 - 240 - 280 - 310 - 350 - 390 - 420 - 460 - 500 - 530 - 570 - 610
Hysteresis OP	[mm]	4

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 (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]	0.507

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

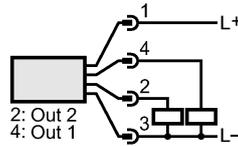
Electrical connection

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

Wiring

LK0728B-B-00KQPKG/US

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. E43102)
---------	---

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