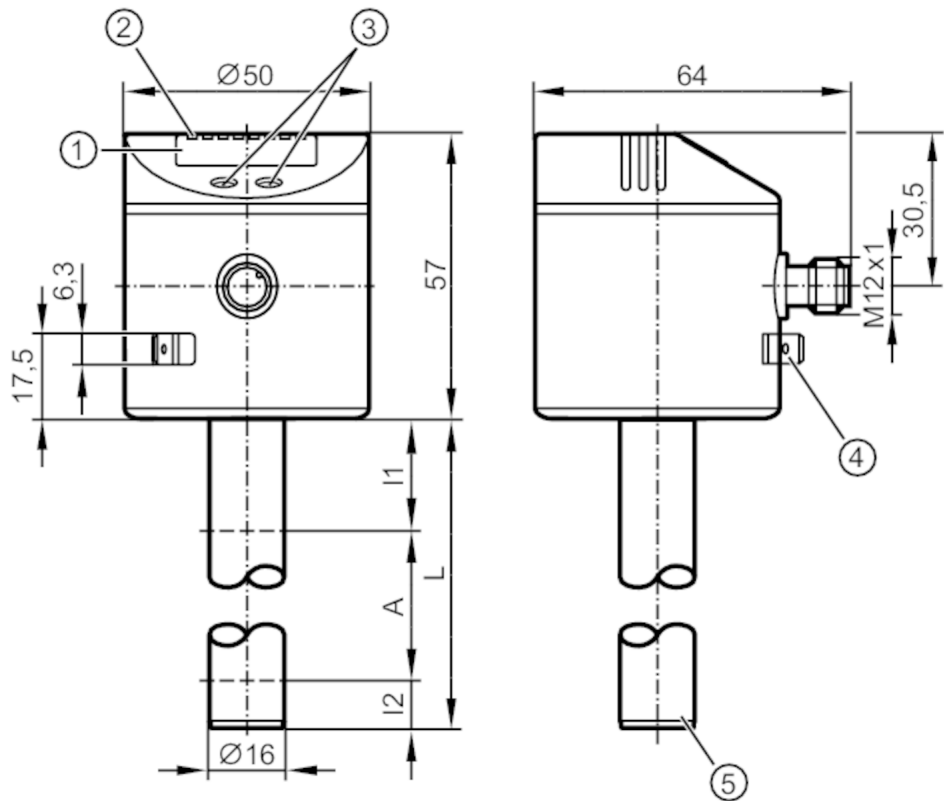




Electronic level and temperature sensor

LT0728B-B-00KLPKG/US



- 1 alphanumeric display 4-digit
- 2 status LEDs
- 3 Programming buttons
- 4 housing connection flat-pin connector 6.3 mm DIN 46244
- 5 Position of the temperature measuring element



Product characteristics	
Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
Factory setting	mineral oils
Probe length L [mm]	728
Application	
Media	hydrous coolants; oils; oil-based media; water; media similar to water
Dielectric constant of the medium	> 2
Cannot be used for	extremely conductive media; adhering media; granulates; bulk material; acids; alkali
Tank pressure [bar]	0.5; (when mounting with mounting accessories: E43001 - E43007, E43019)
Coolants	
Medium temperature [°C]	0...35; (with climate tube E43102 35...55 °C)
Oil	
Medium temperature [°C]	0...70
Medium temperature short time [°C]	0...90; (< 1 h)
Water	
Medium temperature [°C]	0...35; (with climate tube E43102 35...55 °C)



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Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 50
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 3
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1; Number of analog outputs: 1
Outputs		
Total number of outputs		2
Output signal		switching signal; analog signal; IO-Link
Electrical design		PNP/NPN
Number of digital outputs		1
Output function		normally open / closed; (configurable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Number of analog outputs		1
Analog current output	[mA]	4...20, invertible
Max. load	[Ω]	500
Analog voltage output	[V]	0...10, invertible
Min. load resistance	[Ω]	2000
Short-circuit protection		yes
Type of short-circuit protection		thermal, pulsed
Overload protection		yes
Measuring/setting range		
Factory setting		mineral oils
Probe length L	[mm]	728
Active range A	[mm]	585
Inactive range I1 / I2	[mm]	104 / 39
Setting range		
Set point SP	[mm]	60...590
Reset point rP	[mm]	50...580
In steps of	[mm]	10
Reference point OP	[mm]	200 - 240 - 280 - 310 - 350 - 390 - 420 - 460 - 500 - 530 - 570 - 610 - OFF
Hysteresis, OP	[mm]	4
Temperature monitoring		
Measuring range	[°C]	-20...90
Set point SP	[°C]	-19.5...90
Reset point rP	[°C]	-20...89.5
In steps of	[°C]	0.5



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Resolution of switching output	[K]	0.5
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Accuracy / deviations

Measuring error		± 5
	[% of the final value]	
Repeatability		± 2
Resolution	[mm]	5
Zero signal (voltage)	[V]	0
Zero signal (current)	[mA]	4.0
Full signal (voltage)	[V]	10
Full signal (current)	[mA]	20

Temperature monitoring

Switch point accuracy	[K]	± 1,5
Resolution	[K]	0.5
Dynamic response T09	[s]	90

Software / programming

Parameter setting options	hysteresis / window; normally open / closed; switching logic; current/voltage output; SP/ rP position; adjustment OP; medium selection; offset setting; switch-on/switch-off delay	
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Interfaces

Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis	
SIO mode	yes	
Required master port class	A	
Process data analog	4	
Process data binary	1	
Min. process cycle time	[ms]	4.5
Supported DeviceIDs	Type of operation	DeviceID
	default	648

Operating conditions

Ambient temperature	[°C]	0...60
Storage temperature	[°C]	-25...80
Protection		IP 67

Tests / approvals

EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-4	
Shock resistance	DIN EN 60068-2-27	15 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	5 g (10...2000 Hz)
MTTF	[years]	222
UL approval	UL approval number	H002

Mechanical data

Weight	[g]	556.3
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LT3024



Electronic level and temperature sensor

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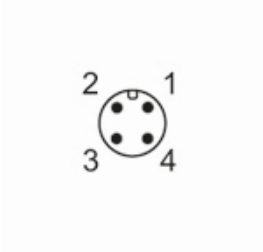
Dimensions	[mm]	Ø 16
Material	stainless steel (1.4301 / 304); stainless steel (1.4404 / 316L); FKM; NBR; PBT; PC; PA; PP; TPV	
Materials (wetted parts)	PP	

Displays / operating elements		
Display	Display unit	4 x LED, green (cm, inch, °C, °F)
	Switching status	1 x LED, yellow
	Measured values	alphanumeric display, 4-digit
	Parameter setting	alphanumeric display, 4-digit

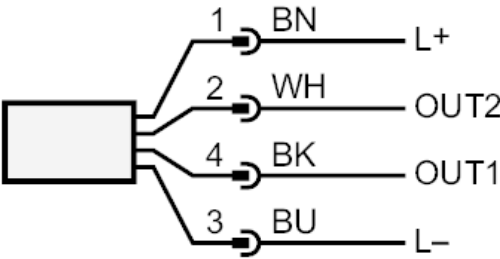
Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT1: Switching output IO-Link
OUT2: analog output
Colors to DIN EN 60947-5-2
Core colors :
BK = black
BN = brown
BU = blue
WH = white