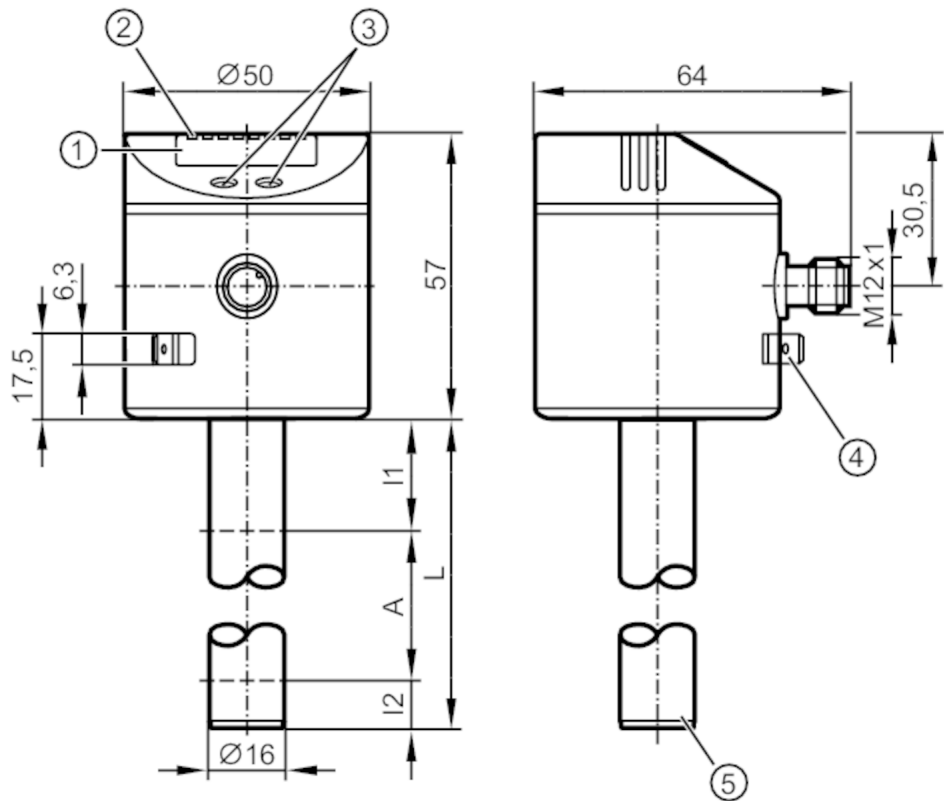




Electronic level and temperature sensor

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 analogue 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	0.5; (when mounting with mounting accessories: E43001 - E43007, E43019) bar	0.05; (when mounting with mounting accessories: E43001 - E43007, E43019) MPa
Coolants		
Medium temperature [°C]	0...35; (with climatic 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 climatic 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 analogue outputs: 1
Outputs		
Total number of outputs		2
Output signal		switching signal; analogue signal; IO-Link
Electrical design		PNP/NPN
Number of digital outputs		1
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Number of analogue outputs		1
Analogue current output	[mA]	4...20, invertible
Max. load	[Ω]	500
Analogue 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	
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 / normally closed; switching logic; current/voltage output; SP/rP position; adjustment OP; medium selection; offset setting; switch-on/switch-off delay		
Interfaces			
Communication interface	IO-Link		
Transmission type	COM2 (38,4 kBaud)		
IO-Link revision	1.1		
SDCI standard	IEC 61131-9		
Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor	
	Function	Device identification	
	Function	Process data variable	
	Function	Device diagnosis	
SIO mode	yes		
Required master port type	A		
Process data analogue	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	

LT3024



Electronic level and temperature sensor

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UL approval	UL approval no.	H002
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Mechanical data

Weight	[g]	556.3
Dimensions	[mm]	Ø 16
Materials	stainless steel (304/1.4301); stainless steel (316L/1.4404); 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

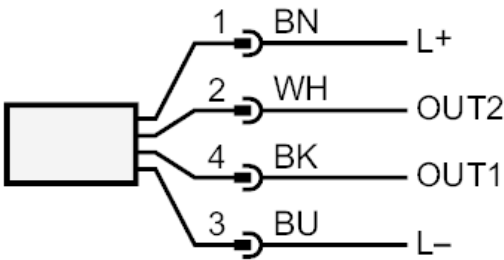
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT1: switching output IO-Link
OUT2: analogue output
colours to DIN EN 60947-5-2
Core colours :
BK = black
BN = brown
BU = blue
WH = white