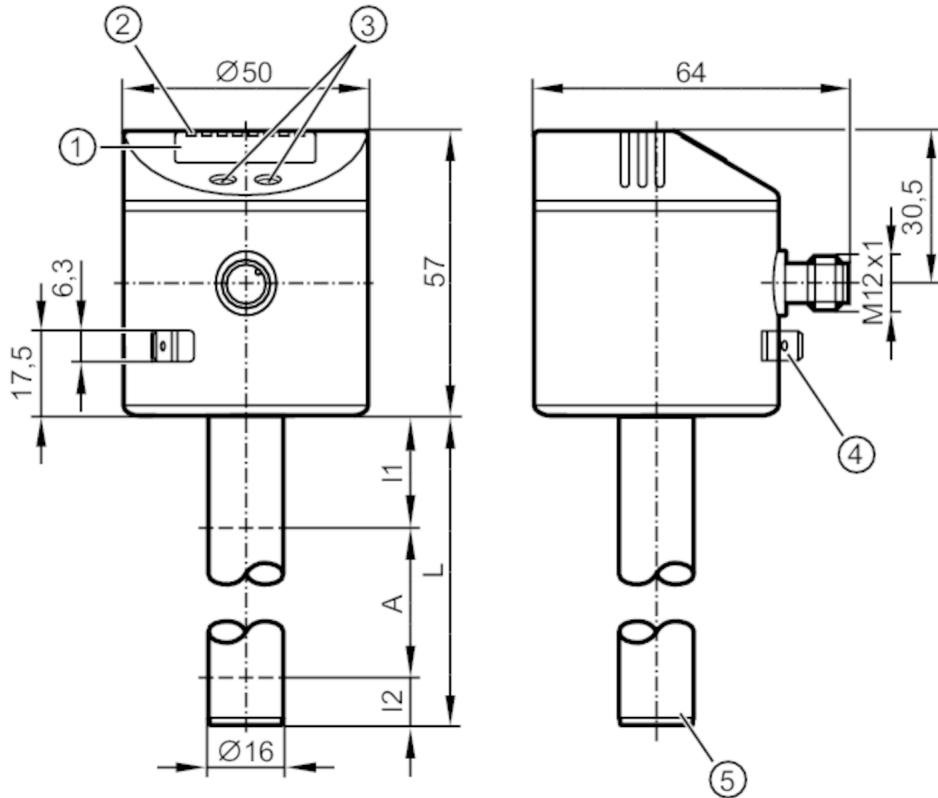


Electronic level and temperature sensor

LT0264B-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]	264

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 climatic tube E43100 35...65 °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 E43100 35...65 °C)

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Electronic level and temperature sensor

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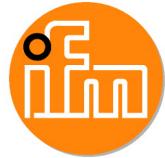


Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 50
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 3
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 1; Number of analogue outputs: 1
Outputs		
Total number of outputs		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]	264
Active range A	[mm]	195
Inactive range l1 / l2	[mm]	53 / 16
Setting range		
Set point SP	[mm]	25...200
Reset point rP	[mm]	20...195
In steps of	[mm]	5
Reference point OP	[mm]	69 - 82 - 94 - 106 - 118 - 130 - 143 - 155 - 167 - 179 - 191 - 204 - OFF
Hysteresis, OP	[mm]	2
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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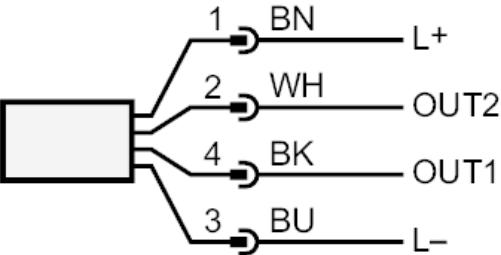
Resolution of switching output	[K]	0.5
Accuracy / deviations		
Measuring error [% of the final value]		± 5
Repeatability		± 2
Resolution [mm]		5
Zero signal (voltage) [V]		0
Zero signal (current) [mA]		4.0
Full signal (voltage) [V]		10
Full signal (current) [mA]		20
Temperature monitoring		
Switch point 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: Process Data Variable; Device Identification, 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	646
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 no.	H002
Mechanical data		
Weight [g]		290

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Electronic level and temperature sensor

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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.
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	