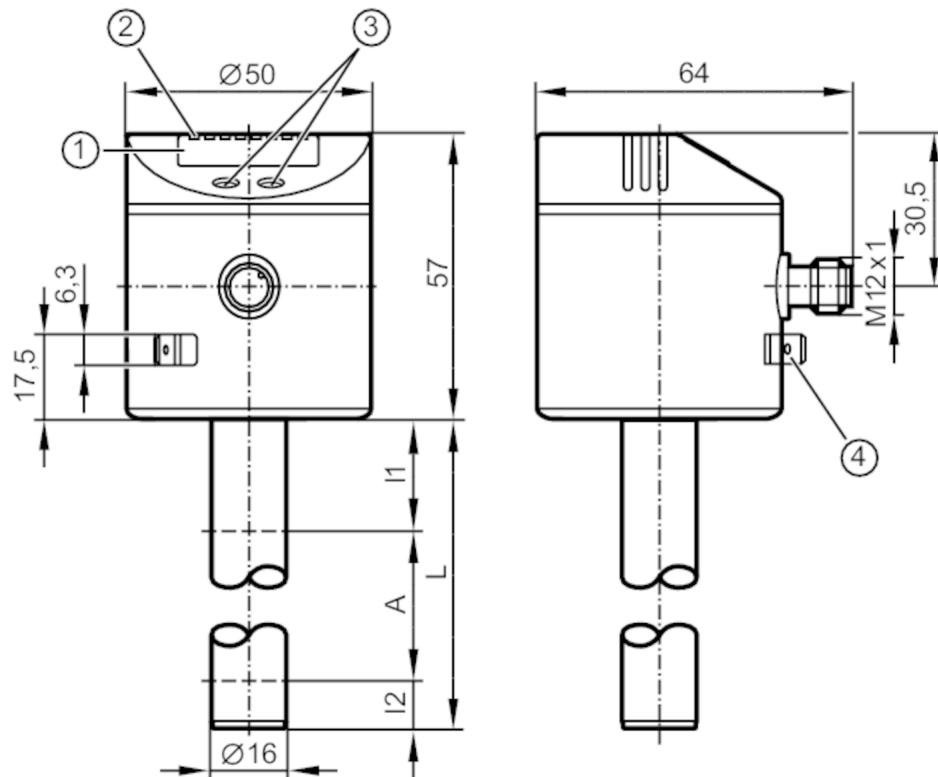




Electronic level sensor

LK0472B-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



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1
Factory setting	hydrous coolants; water; media similar to water
Probe length L [mm]	472

Application

Special feature		Gold-plated contacts
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; food and electroplating industry
Maximum speed of the change of level	[mm/s]	200
Tank pressure	[bar]	0.5; (when mounting with mounting accessories: E43001 - E43007, E43019)

Coolants		
Medium temperature	[°C]	0...35; (with climatic tube E43101: 35...60 °C)
Oil		
Medium temperature	[°C]	0...70
Medium temperature short time	[°C]	0...90; (< 1 h)



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Water		
Medium temperature	[°C]	0...35; (with climatic tube E43101: 35...60 °C)
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
Measuring principle		capacitive
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		hydrous coolants; water; media similar to water
Probe length L	[mm]	472
Active range A	[mm]	390
Inactive range I1 / I2	[mm]	60 / 22
Setting range		
Set point SP	[mm]	35...390
Reset point rP	[mm]	30...385
Hysteresis	[mm]	5
Reference point OP	[mm]	139 - 163 - 188 - 212 - 236 - 261 - 285 - 310 - 334 - 358 - 383 - 407 - OFF
Hysteresis, OP	[mm]	3
Accuracy / deviations		
Measuring error		± 5
	[% of the final value]	



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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

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
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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 type	A				
Process data analogue	2				
Process data binary	1				
Min. process cycle time	[ms] 3.2				
Supported DeviceIDs	<table> <tr> <th>Type of operation</th><th>DeviceID</th></tr> <tr> <td>default</td><td>650</td></tr> </table>	Type of operation	DeviceID	default	650
Type of operation	DeviceID				
default	650				

Operating conditions

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

Tests / approvals

EMC	DIN EN 61000-6-4	
	DIN EN 61000-6-2	
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] 194	

Mechanical data

Weight	[g] 372
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 / status	2 x LED, green (cm, inch)
	switching status	1 x LED, yellow
	measured values	alphanumeric display, 4-digit
	parameter setting	alphanumeric display, 4-digit

LK3123



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Remarks

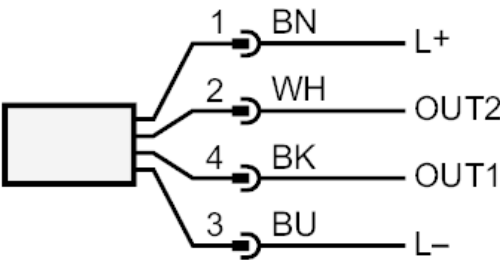
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



OUT1: switching output IO-Link
OUT2: analogue output
colours to DIN EN 60947-5-2

OUT1: switching output
OUT2: analogue output
Core colours :

BK = black
BN = brown
BU = blue
WH = white