

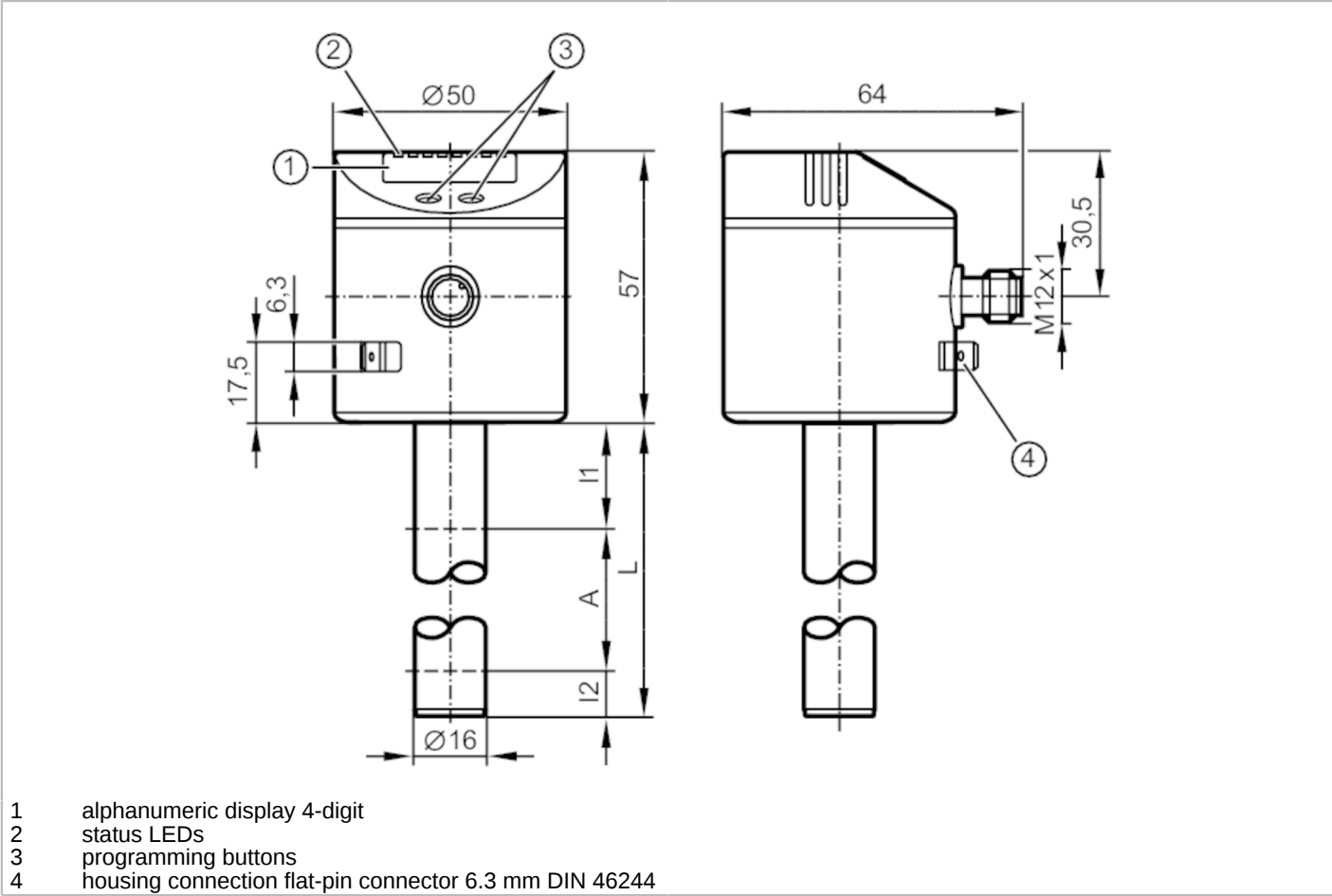
LK8123



Electronic level sensor

LK0472B-B-00KVPKG/US

For 8-pole sockets the core colours are not standardised.
Please note the wiring of the sensor and the sockets (see data sheet).



Product characteristics		
Number of inputs and outputs	Number of digital outputs: 4	
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; hygienic areas and electroplating applications	
Maximum speed of the change of level	[mm/s]	200
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 E43101: 35...60 °C)



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Oil		
Medium temperature	[°C]	0...70
Medium temperature short time	[°C]	0...90; (< 1 h)
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: 4
Outputs		
Total number of outputs		4
Output signal		switching signal; IO-Link
Electrical design		PNP/NPN
Number of digital outputs		4
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
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
In steps of	[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]	
Repeatability		± 2



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Resolution	[mm]	5	
Software / programming			
Parameter setting options		hysteresis / window; normally open / normally closed; switching logic; 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		2	
Process data binary		4	
Min. process cycle time	[ms]	3.2	
Supported DeviceIDs		Type of operation	DeviceID
		default	22
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]	227	
Mechanical data			
Weight	[g]	372.6	
Dimensions	[mm]	Ø 16	
Materials		stainless steel (304/1.4301); stainless steel (316L/1.4404); FKM; NBR; PBT; PC; PP; PA; TPV	
Materials (wetted parts)		PP	
Displays / operating elements			
Display		Display unit	2 x LED, green (cm, inch)
		switching status	4 x LED, yellow (OUT4...OUT1)
		measured values	alphanumeric display, 4-digit
		parameter setting	alphanumeric display, 4-digit
Remarks			
Pack quantity		1 pcs.	

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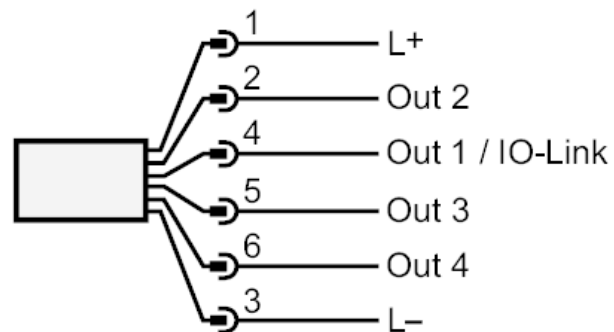
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Electrical connection

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



Connection



OUT1: switching output IO-Link
OUT2...4: switching output