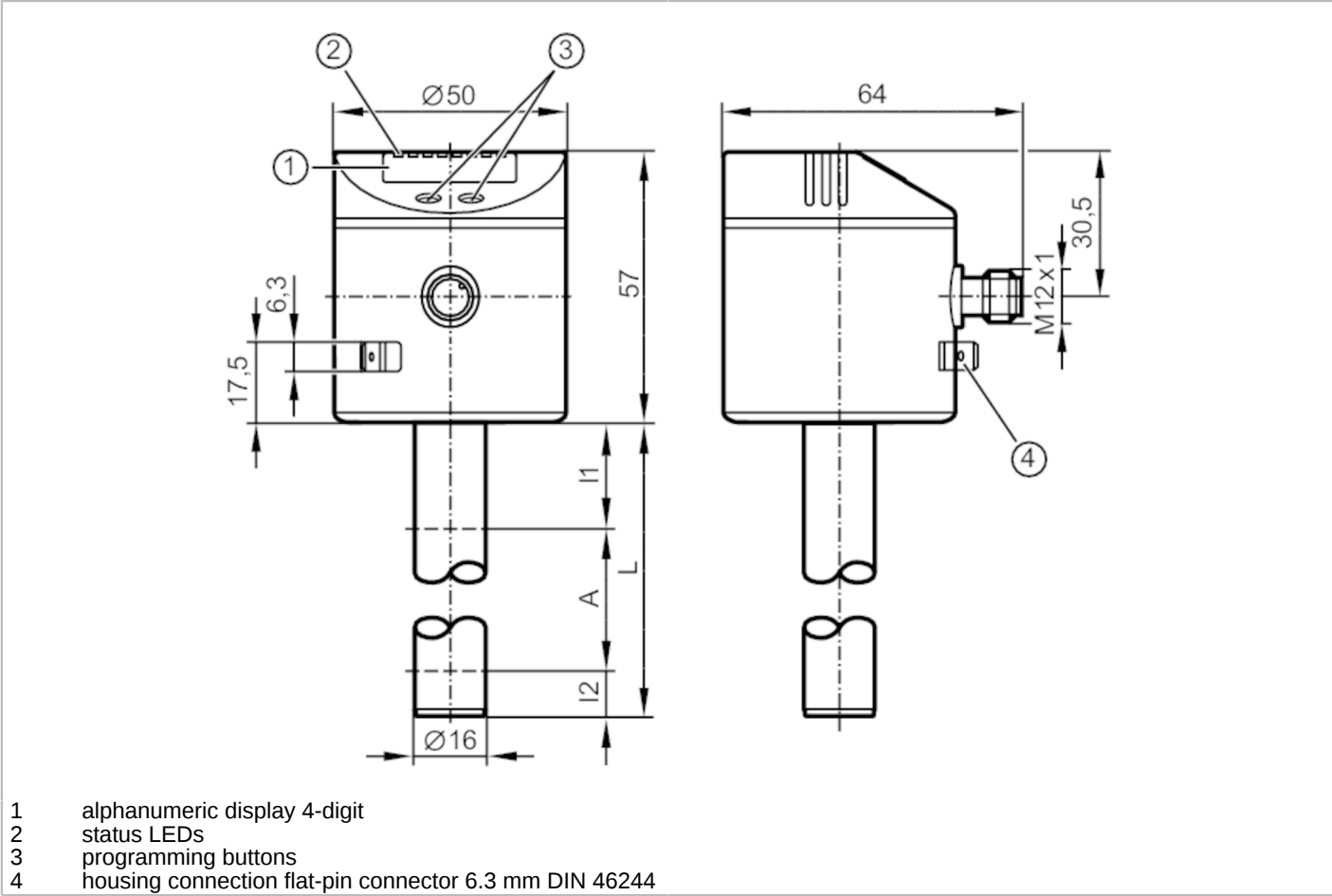




Electronic level sensor

LK0728B-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]	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; hygienic areas and electroplating applications
Maximum speed of the change of level [mm/s]	300
Tank pressure [bar]	0.5; (when mounting with mounting accessories: E43001 - E43007, E43019)
Coolants	
Medium temperature [°C]	0...35; (with climatic tube E43102: 35...55 °C)
Oil	
Medium temperature [°C]	0...70



Electronic level sensor

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Medium temperature short time	[°C]	0...90; (< 1 h)
Water		
Medium temperature	[°C]	0...35; (with climatic tube E43102 ; 35...55 °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]	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
Accuracy / deviations		
Measuring error		± 5
	[% of the final value]	
Repeatability		± 2
Resolution	[mm]	10



Electronic level sensor

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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	23
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]	227	
Mechanical data		
Weight [g]	549.4	
Dimensions [mm]	Ø 16	
Materials	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	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.	

LK8124



Electronic level sensor

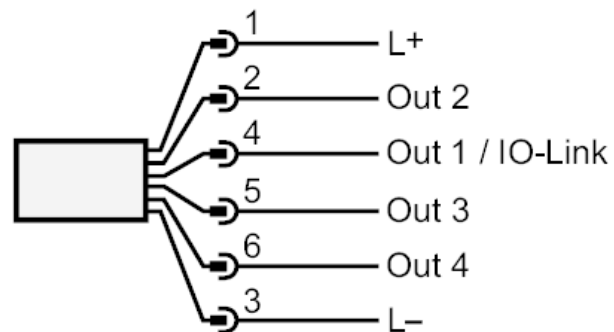
LK0728B-B-00KVPKG/US

Electrical connection

Connector: 1 x M12; coding: A



Connection



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