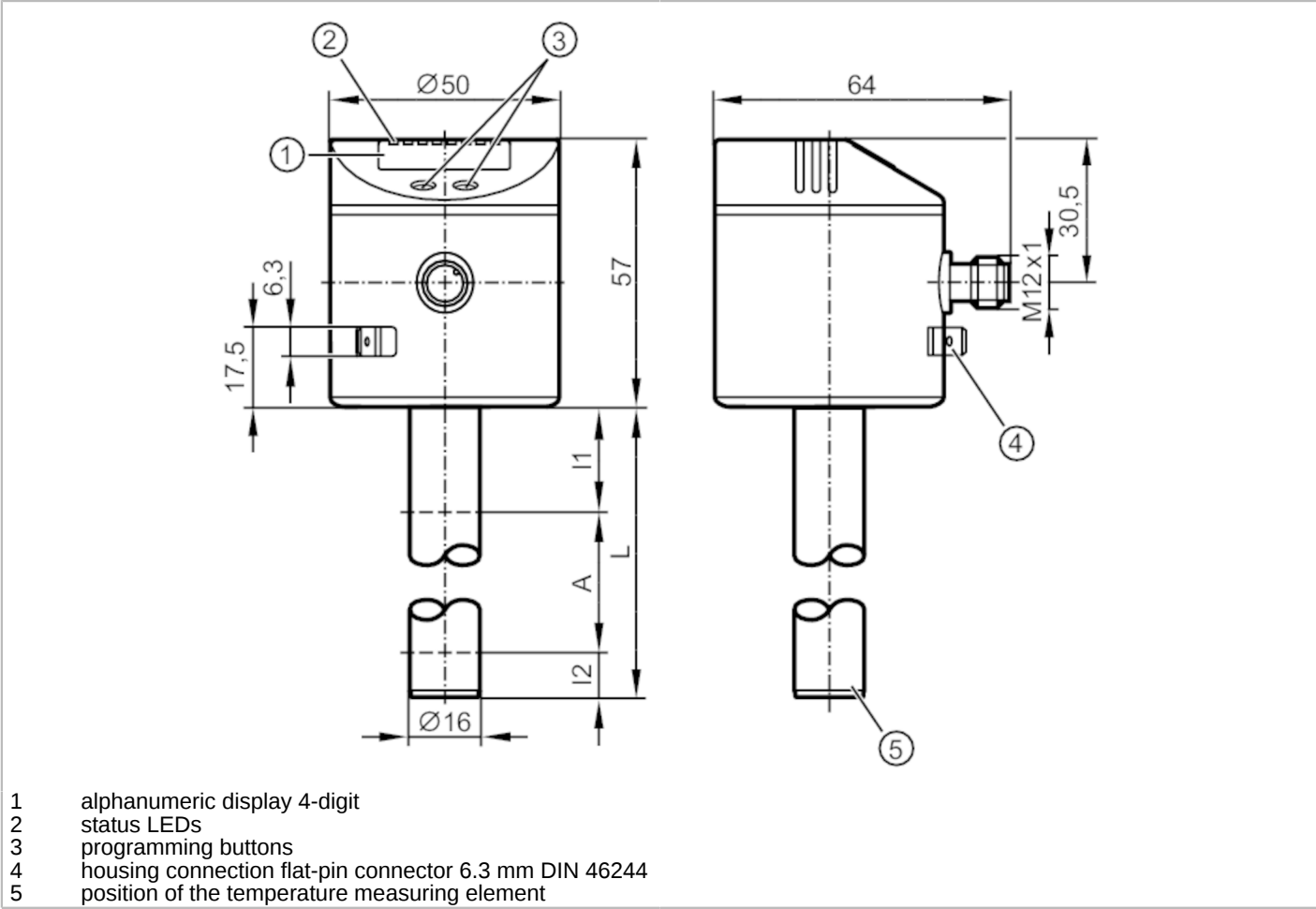




Electronic level and temperature sensor

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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	2 switching outputs level (OUT1, OUT2); 2 switching outputs temperature (OUT3, OUT4); 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



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Medium temperature short time	[°C]	0...90; (< 1 h)
Water		
Medium temperature	[°C]	0...35; (with climatic tube E43100 35...65 °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		2 switching outputs level (OUT1, OUT2); 2 switching outputs temperature (OUT3, OUT4); mineral oils
Probe length L	[mm]	264
Active range A	[mm]	195
Inactive range I1 / I2	[mm]	53 / 16
Setting range		
Set point SP	[mm]	25...190
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		± 5	
	[% of the final value]		
Repeatability		± 2	
Resolution	[mm]	5	
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; SP/rP position; OP position; adjustment OP; medium selection; offset setting; Display unit; process value assignment		
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	4		
Min. process cycle time	[ms]	4.5	
Supported DeviceIDs	Type of operation	DeviceID	
	default	18	
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]	224	
Mechanical data			
Weight	[g]	290.35	
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	

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Displays / operating elements

Display	Display unit	4 x LED, green (cm, inch, °C, °F)
	switching status	4 x LED, yellow (OUT4...OUT1)
	measured values	alphanumeric display, 4-digit
	parameter setting	alphanumeric display, 4-digit

Remarks

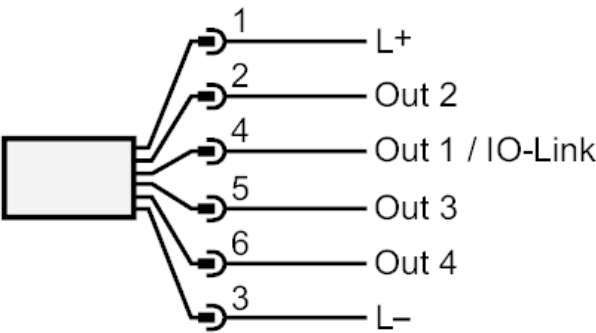
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection



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