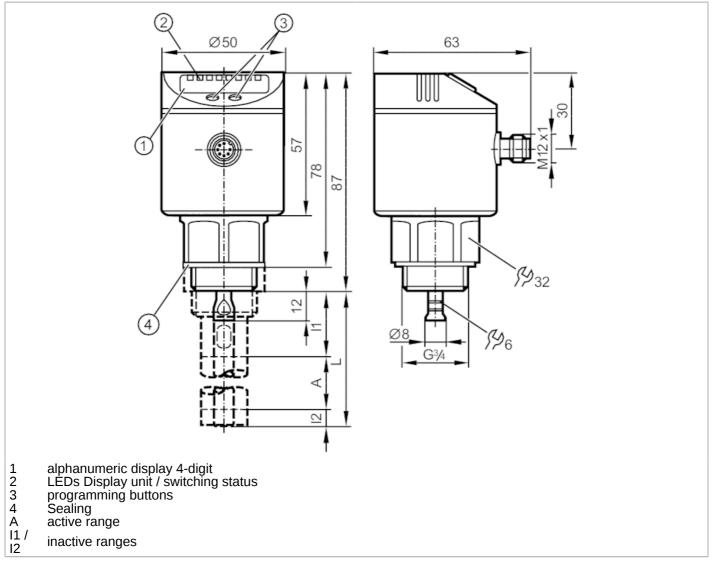
Continuous level sensor (guided wave radar)









Product characteristics				
Number of inputs and outputs		Number of digital outputs: 4		
Probe length L	[mm]	1001600		
Process connection		G 3/4 external thread		
Application				
Special feature		Gold-plated contacts		
Media Liquids		Liquids		
Dielectric constant of the medium	,-, (
Recommended media		water; hydrous media; oils; oil-based media		
Cannot be used for		See the operating instructions, chapter "Function and features".		
Medium temperature	[°C]	-2580; (90 < 1 h)		
Tank pressure	[bar]	-116		
MAWP (for applications according to CRN)	[bar]	25		

Continuous level sensor (guided wave radar)



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Electrical data			
Operating voltage	[V]	1830 DC	
Current consumption	[mA]	< 80	
Protection class		III	
Reverse polarity protection		yes	
Power-on delay time	[s]	< 3	
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	
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	
Measuring/setting range			
Probe length L	[mm]	1001600	
Active range A	[mm]	L-40; (when set to oil and oil based media: L-60)	
Inactive range I1 / I2	[mm]	30 / 10; (when set to oil and oil based media: 30 / 30)	
Sampling rate	[Hz]	4	
Setting range			
Set point SP	[mm]	≥ 15 / ≤ L-30	
Note on setpoint SP		when set to oil and oil based media: 35L-30	
Reset point rP	[mm]	≥ 10 / ≤ L-35	
Note on reset point rP		when set to oil and oil based media	
In steps of	[mm]	5	
Hysteresis	[mm]	> 5	
Accuracy / deviations			
Repeatability	[mm]	± 5	
Measuring error	[mm]	± 7	
Offset error	[mm]	5	
Resolution	[mm]	1	

Continuous level sensor (guided wave radar)





Interfaces					
Communication interface		IO-	Link		
Transmission type		COM2 (38	3,4 kBaud)		
IO-Link revision		1.1			
SDCI standard		IEC 61131-9 CDV			
IO-Link device ID		010 d / 00 00 0A h			
Profiles		no profile			
SIO mode		yes			
Required master port type		А			
Process data analogue		1			
Process data binary			4		
Min. process cycle time	[ms]	2.3			
Operating conditions					
Ambient temperature	[°C]	-25	-2560		
Storage temperature	[°C]	-4085			
Protection		IP 67			
Tests / approvals					
EMC		IEC 60947-1			
Shock resistance		DIN IEC 68-2-27	50 g (11 ms)		
Vibration resistance		DIN IEC 68-2-6	5 g (102000 Hz)		
MTTF	[years]	205			
Mechanical data					
Weight	[g]	396.5			
Materials		stainless steel (1.4301 / 304); FKM; PBT; PC; PEI; TPE-V; PTFE			
Materials (wetted parts)		stainless steel (1.4305 / 303); probe connection: stainless steel (1.4435 / 316L); PTFE; FKM; Sealing: NBR-PPTA 20			
Process connection		G 3/4 external thread			
Displays / operating eleme	ents				
		Display unit	3 x LED, green		
Display		switching status	4 x LED, yellow		
		level	alphanumeric display, 4-digit		
		parameter setting	alphanumeric display, 4-digit		
Accessories					
Accessories (optional)		Probe:, E43203E43205 / E43207E43210			
		Coaxial pipe:, E43211E43221, E43223, E43224			
Remarks					
Notes		For 8-pole sockets the core colours are not standardised.; Please note the wiring of the sensor and the sockets (see data sheet).			
Pack quantity		1 pcs.			
Electrical connection					

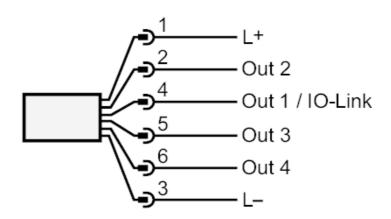
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Connection



Diagrams and graphs

