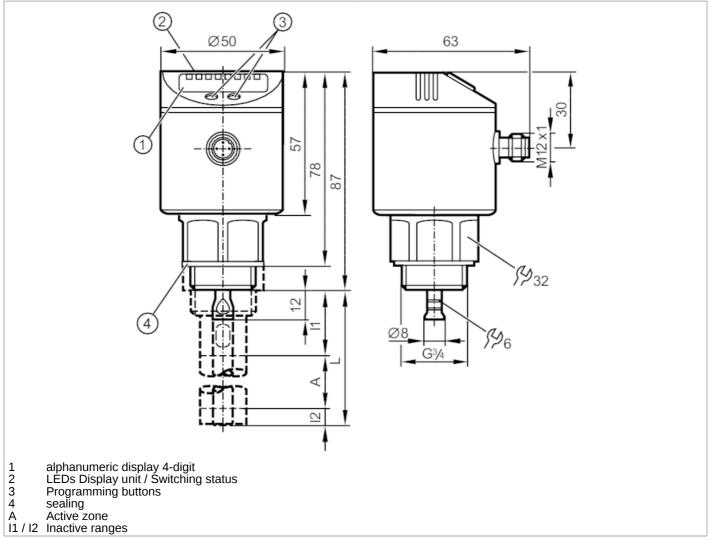
### Continuous level sensor (guided wave radar)









Product characteristics							
Number of inputs and outputs		Number of digital outputs: 2					
Probe length L	[mm]	1001600					
Process connection		G 3/4 external thread					
Application							
System		gold-plated contacts					
Media		hydrous coolants; oils; oil-based media; water; media similar to water					
Dielectric constant of the medium		≥ 2; (for media with a dielectric constant of 220 (e.g. oils), a coaxial pipe is needed for operation)					
Cannot be used for		greases; granulates; bulk material; acids; alkali; heavily foaming media					
Medium temperature	[°C]	080; (90 < 1 h)					
Tank pressure	[bar]	-116					
MAWP (for applications according to CRN)	[bar]	25					
Electrical data							
Operating voltage	[V]	1830 DC					

# Continuous level sensor (guided wave radar)



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Current consumption	[mA]	< 80			
Protection class		III			
Reverse polarity protection		yes			
Power-on delay time	[s]	< 3			
Measuring principle		guided wave radar			
Inputs / outputs					
Number of inputs and outputs	<b>S</b>	Number of digital outputs: 2			
Outputs					
Total number of outputs	mber of outputs 2				
Output signal		switching signal; IO-Link			
Electrical design		PNP			
Number of digital outputs		2			
Output function		normally open / closed; (configurable)			
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 (L-60); (when set to oil and oil based media)			
Inactive range I1 / I2	[mm]	30 / 10 (30); (when set to oil and oil based media)			
Setting range					
Set point SP	[mm]	15L-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: 30L-35			
In steps of	[mm]	5			
Hysteresis	[mm]	> 5			
Accuracy / deviations					
Repeatability	[mm]	± 5			
Switch point accuracy	[mm]	$\pm$ (15 + 0,5 % ); (% of the final value of the measuring range: L - 30 mm)			
Interfaces					
Communication interface		IO-Link			
Transmission type		COM2 (38,4 kBaud)			
IO-Link revision	nk revision 1.1				
SDCI standard		IEC 61131-9 CDV			
Profiles		no profile			
SIO mode		yes			
Required master port class		А			
Process data analog		1			
Process data binary	cess data binary 2				

## Continuous level sensor (guided wave radar)



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Min. process cycle time	[ms]	2.3					
Supported DeviceIDs		Type of operation	DeviceID				
		default	8				
Operating conditions							
Ambient temperature	[°C]	060					
Storage temperature	[°C]	-2580					
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]	233					
Mechanical data							
Weight	[g]	381.7					
Material		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 elements							
Display		Display unit	3 x LED, green				
		Switching status	2 x LED, yellow				
		Level	alphanumeric display, 4-digit				
		Parameter setting	alphanumeric display, 4-digit				
Accessories							
		Probe:, E43203E43	e:, E43203E43205 / E43207E43210				
		Coaxial tubes for level sensors:, E43211E43221, E43223, E43224					
Remarks							
Pack quantity		1 pcs.					
Electrical connection							

# Electrical connection

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

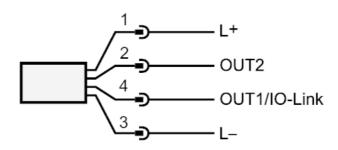


## Continuous level sensor (guided wave radar)





#### Connection



#### Diagrams and graphs

Measurement deviation D at the limits of the active rod range

