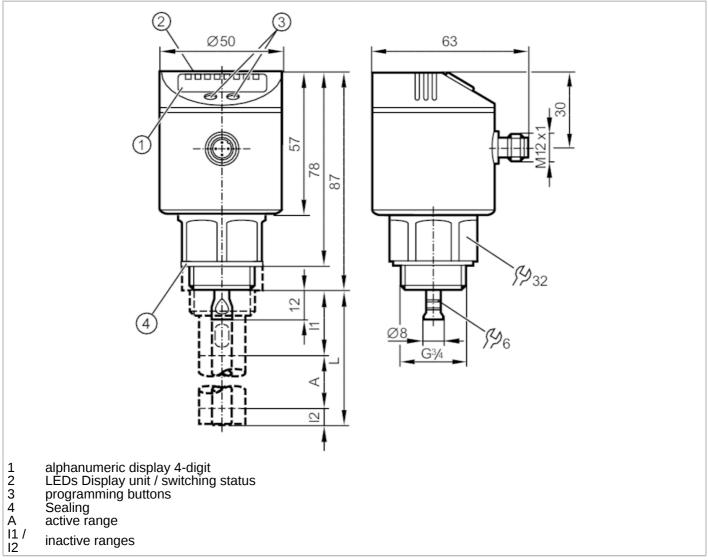
Continuous level sensor (guided wave radar)









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			
Special feature	pecial feature Gold-plated contacts		
Media		hydrous coolants; oils; oil-based media; water; media similar to water	
Dielectric constant of the \geq 2; (for media with a dielectric constant of 220 medium (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	

Continuous level sensor (guided wave radar)



LR0000B-BR34AQPKG/US

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: 2	
Outputs			
Total number of outputs		2	
Output signal		switching signal; IO-Link	
Electrical design		PNP	
Number of digital outputs		2	
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 (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]	≥ 15 (35) / ≤ L-30	
Note on setpoint SP		when set to oil and oil based media	
Reset point rP	[mm]	≥ 10 (30) / ≤ 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	
Switch point accuracy	[mm]	\pm (15 + 0,5 %); (% of the final value of the measuring range: L - 30 mm)	

Continuous level sensor (guided wave radar)





Interfaces				
Communication interface	IO-Li	nk		
Transmission type	COM2 (38,	COM2 (38,4 kBaud)		
IO-Link revision	1.1			
SDCI standard	IEC 61131-9 CDV			
IO-Link device ID	008 d / 00 00 08 h			
Profiles	no profile			
SIO mode	yes			
Required master port type	A			
Process data analogue	1			
Process data binary	2			
Min. process cycle time [ms]	2.3			
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	3		
Mechanical data				
Weight [g]	388	388		
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 elements				
	Display unit	3 x LED, green		
Dioplay	switching status	2 x LED, yellow		
Display	level	alphanumeric display, 4-digit		
	parameter setting	alphanumeric display, 4-digit		
Accessories				
Accessories (optional)	Probe:, E43203E4320	Probe:, E43203E43205 / E43207E43210		
Accessories (optional)	Coaxial pipe:, E43211E43221, E43223, E43224			
Remarks				
Pack quantity	1 pcs.			
rack quantity				

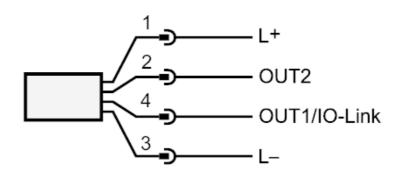
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Connection



Diagrams and graphs

