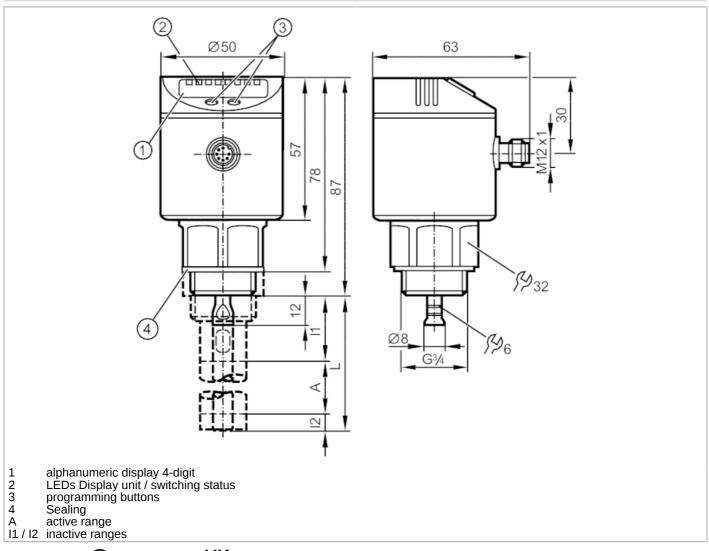
Continuous level sensor (guided wave radar)



LR0000B-BR34ASPKG/US

For high process temperatures: The temperature at the process connection is decisive. The actual medium temperature may be higher.

For 8-pole sockets the core colours are not standardised. Please note the wiring of the sensor and the sockets (see data sheet). Please see the technical note under "Downloads"



Number of inputs and outputs		Number of digital outputs: 4	
Probe length L	[mm]	1001600	
Process connection		threaded connection G 3/4 external thread	
Application			
Special feature		Gold-plated contacts	
Application		for industrial applications	
Media		Liquids	
Dielectric constant of the		\geq 1,8; (for media with a dielectric constant of 1.85	
medium		(e.g. oils), a coaxial pipe is needed for operation)	

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Recommended media		water; hydrous media; oils; oil-based media	
Cannot be used for		See the operating instructions, chapter "Function and features".	
Process temperature [°C]		-2580; (90 < 1 h; see note under remarks)	
Pressure rating	[bar]	16	
Vacuum resistance	[mbar]	-1000	
MAWP (for applications according to CRN)	[bar]	16	
Electrical data			
Operating voltage	[V]	1830 DC	
Current consumption	[mA]	< 30	
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	S	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	
Overload protection		yes	
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]	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	
Measuring error	[mm]	± 7	

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Offset error	[mm]	5			
Resolution	[mm]	1			
Temperature drift per 10 K			± 0.2 %		
Interfaces					
Communication interface			IO-Link		
Transmission type		COM2 (38,4 kBaud)			
IO-Link revision		1.1			
SDCI standard			IEC 61131-9 CDV		
Profiles		no profile			
SIO mode		yes			
Required master port type		A			
Process data analogue		1			
Process data binary		4			
Min. process cycle time	[ms]	2.3			
Supported DeviceIDs		Type of operation	DeviceID		
		default	10		
Operating conditions					
Ambient temperature	[°C]	-2560			
Storage temperature	[°C]	-4085			
Protection		IP 67			
Tests / approvals					
EMC		DIN EN 61000-6-2			
		DIN EN 61000-6-3	in a closed metal tank		
Charlense internet		DIN EN 61000-6-4	in plastic or open metal tanks		
Shock resistance		DIN EN 60068-2-27	50 g (11 ms) / 25 g (6 ms) with reference rod 0.5 m		
Vibration resistance		DIN EN 60068-2-6	5 g (102000 Hz) / 1 g (5200 Hz) with reference rod 0.5 m		
MTTF	[years]	205			
UL approval		UL Approval no.	H008		
		File number UL	E174191		
Mechanical data					
Weight	[g]		380.45		
Materials		stainless steel (304/1.4301); stainless steel (316L/1.4404); FKM; PBT; PC; PEI; TPE-V			
Materials (wetted parts)		stainless steel (303/1.4305); probe connection: stainless steel (316L/1.4435); PTFE; FKM; Sealing: NBR reinforced fibre			
Process connection		threaded connection G 3/4 external thread			
Displays / operating elem	ents				
Display		Display unit	3 x LED, green		
		switching status	4 x LED, yellow		
		level	alphanumeric display, 4-digit		
		parameter setting	alphanumeric display, 4-digit		
Remarks					
Notes		For high process temperatures: The temperature at the process connection is decisive. The actual medium temperature may be higher.			
Pack quantity	Pack quantity 1 pcs.				

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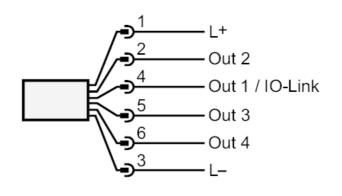
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Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



Diagrams and graphs

Measurement deviation D at the limits of the active rod range

