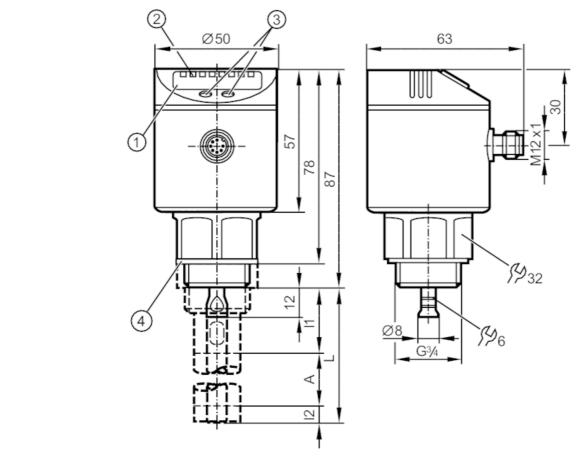
Continuous level sensor (guided wave radar)





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

For 8-wire cordsets the core colors are not standardized. Please note the wiring of the sensor and the cordsets (see data sheet). Please see the technical note under "Downloads"



- 1 2 3 4 A I1/ I2 alphanumeric display 4-digit
- LEDs Display unit / Switching status Programming buttons
- sealing
- Active zone
- Inactive ranges



Product characteristics				
Number of inputs and outputs		Number of digital outputs: 4		
Probe length L	[mm]	1001600		
Process connection		G 3/4 external thread		

Continuous level sensor (guided wave radar)





	gold-plated contacts	
	Liquids	
	≥ 1,8; (for media with a dielectric constant of 1.85 (e.g. oils), a coaxial pipe is needed for operation)	
	water; water-based media; oils; oil-based media	
	See the operating instructions, chapter "Function and features".	
[°C]	-2580; (90 < 1 h; see note under remarks)	
[bar]	16	
[mbar]	-1000	
[bar]	16	
[V]	1830 DC	
[mA]	< 30	
	III	
	yes	
[s]	< 3	
	guided wave radar	
6	Number of digital outputs: 4	
	4	
	switching signal; IO-Link	
	PNP	
	4	
	normally open / closed; (configurable)	
[V]	2.5	
[mA]	200	
	yes	
	thermal, pulsed	
	yes	
[mm]	1001600	
[mm]	L-40; (when set to oil and oil based media: L-60)	
[mm]	30 / 10; (when set to oil and oil based media: 30 / 30)	
[]		
	[bar] [mbar] [bar] [V] [mA] [s] [v] [mm] [mm]	

Continuous level sensor (guided wave radar)





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]	≥ 10L-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		
Offset error	[mm]	5		
Resolution	[mm]	1		
Temperature drift per 10 K		± 0.2 %		
Interfaces				
Communication interface		IO-L	ink	
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 class		A		
Process data analog		1		
Process data binary		4		
Min. process cycle time	[ms]	2.3		
Supported DeviceIDs		Type of operation	DeviceID	
Supported DeviceiD3		default	10	
Operating conditions				
Ambient temperature	[°C]	-2560		
Storage temperature	[°C]	-4085		
Protection		IP 67		
Tests / approvals				
		DIN EN 61000-6-2		
EMC		DIN EN 61000-6-3	in a closed metal tank	
		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 number	H008	
<u> </u>		File number UL	E174191	

Continuous level sensor (guided wave radar)

LR0000B-BR34ASPKG/US



Mechanical data				
Weight	[g]	380.45		
Material		stainless steel (1.4301 / 304); stainless steel (1.4404 / 316L); FKM; PBT; PC; PEI; TPE-V		
Materials (wetted parts)		stainless steel (1.4305 / 303); probe connection: stainless steel (1.4435 / 316L); PTFE; FKM; sealing: NBR fiber-reinforced		
Process connection		G 3/4 external thread		

Displays / operating elements			
	Display unit	3 x LED, green	
Dioplay	Switching status	4 x LED, yellow	
Display	Level	alphanumeric display, 4-digit	
	Parameter setting	alphanumeric display, 4-digit	

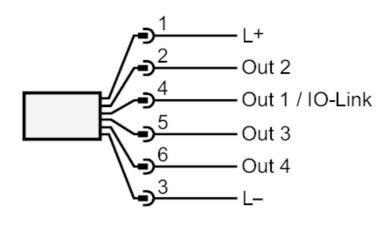
Remarks	
Notes	For high process temperatures: The temperature at the process connection is decisive. The actual medium temperature may be higher.
Pack quantity	1 pcs.

Electrical connection

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



Connection



Continuous level sensor (guided wave radar)





Diagrams and graphs

