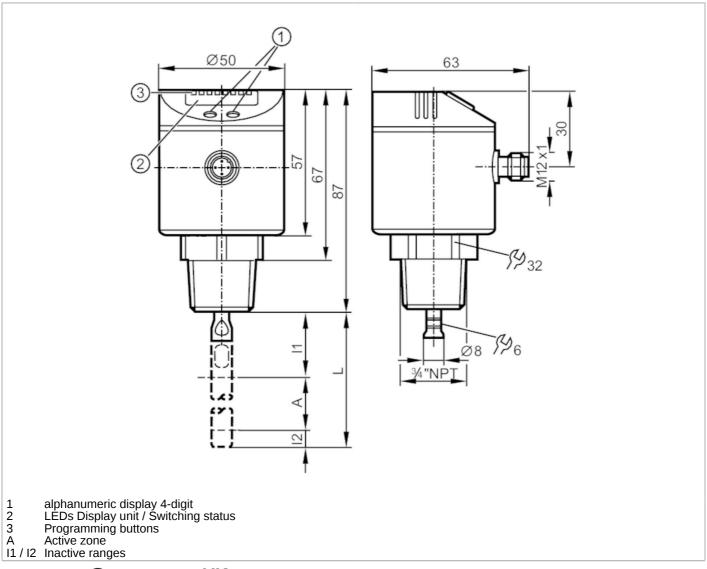
#### Continuous level sensor (guided wave radar)





Please see the technical note under "Downloads"

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





Product characteristic	s					
Number of inputs and outputs		Number of digital outputs: 2				
Probe length L	[mm]	1001600				
Process connection		threaded connection 3/4" NPT external thread				
Application						
System		gold-plated contacts				
Application		for industrial applications				
Media		Liquids				
Dielectric constant of the medium		≥5				
Recommended media		water; water-based media				

## Continuous level sensor (guided wave radar)



LR0000B-BN34AQPKG/US

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		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 / 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		
Overload protection		yes		
Measuring/setting range				
Probe length L	[mm]	1001600		
Active range A	[mm]	L-40		
Inactive range I1 / I2	[mm]	30 / 10		
Sampling rate	[Hz]	4		
Setting range				
Set point SP [mm]		15L-30		
Reset point rP	[mm]	10 L-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		

### Continuous level sensor (guided wave radar)



Temperature drift per 10 K



Interfaces					
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		А			
Process data analog		1			
Process data binary		2			
Min. process cycle time	[ms]	2.3			
Supported DeviceIDs		Type of operation		DeviceID	
		default		9	
Operating conditions					
Ambient temperature [°C]			-25.	60	
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	
		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]	233			
UL approval		UL approval number		H007	
		File number UL		E174191	
Mechanical data					
Weight	[g]	397.25			
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			
Process connection		threaded connection 3/4" NPT external thread			
Displays / operating eleme	ents				
Display		Display unit		3 x LED, green	
		Switching status		2 x LED, yellow	
		Level		alphanumeric display, 4-digit	
		Parameter setting		alphanumeric display, 4-digit	
Remarks					
Notes		Please see the technical note under "Downloads"; For high			
		process temperatures: The temperature at the process connection is decisive. The actual medium temperature may be higher.			
Pack quantity		is decisive. Th			
rack qualitity		1 pcs.			

 $\pm$  0.2 %

#### Continuous level sensor (guided wave radar)

LR0000B-BN34AQPKG/US

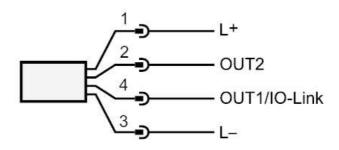


#### **Electrical connection**

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



#### Connection



### Diagrams and graphs

Measurement deviation D at the limits of the active rod range

