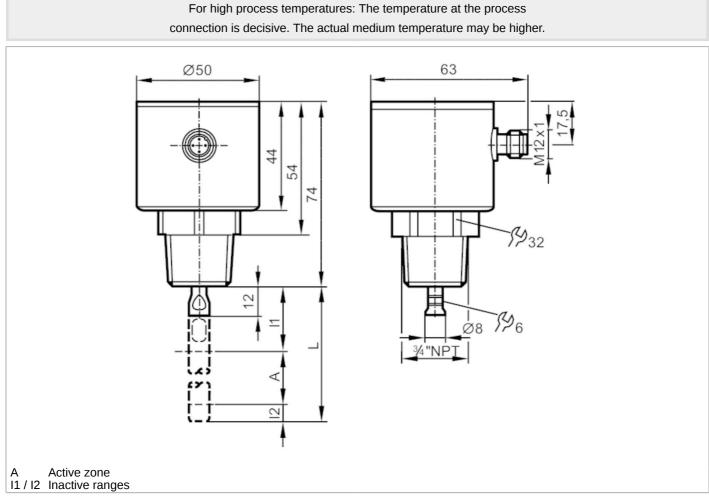
Continuous level sensor (guided wave radar)







Product characteristics					
Number of inputs and outputs		Number of digital outputs: 1; Number of analog outputs: 1			
Probe length L	[mm]	1002000			
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			
Process temperature	[°C]	-2580; (90 < 1 h; see note under remarks)			
Pressure rating	[bar]	16			
Vacuum resistance	[mbar]	-1000			
Electrical data					
Operating voltage	[V]	1830 DC			
Current consumption	[mA]	< 25			

Continuous level sensor (guided wave radar)



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: 1; Number of analog outputs: 1
Outputs		
Total number of outputs		2
Output signal		switching signal; analog signal; IO-Link
Electrical design		PNP/NPN
Number of digital outputs		1
Output function		normally open / closed; (configurable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Number of analog outputs		1
Analog current output	[mA]	420, invertible
Max. load	[Ω]	500
Analog voltage output	[V]	010, invertible
Min. load resistance	[Ω]	2000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Measuring/setting range		
Probe length L	[mm]	1002000
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
Zero signal (voltage)	[V]	0
Zero signal (current)	[mA]	4.0
Full signal (voltage)	[V]	10
Full signal (current)	[mA]	20

Continuous level sensor (guided wave radar)



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	
Profiles		Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis		
SIO mode		yes		
Required master port class		Α		
Process data analog			3	
Process data binary			1	
Min. process cycle time	[ms]		3.2	
Supported DeviceIDs		Type of operation	DeviceID	
		default	592	
Operating conditions				
Ambient temperature	[°C]		-2560	
Storage temperature	[°C]		-4085	
Protection		IP 68; IP 69K; (7 days / 1 m water depth / 0.1 bar: IP 68)		
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 r 0.5 m	rod
Vibration resistance		DIN EN 60068-2-6	5 g (102000 Hz) / 1 g (5200 Hz) with reference rod 0.5 m	
MTTF	[years]		241	
UL approval		UL approval number	H012	
		File number UL	E174191	
Mechanical data				
Weight	[g]		448.2	
Material		stainless steel (1.43)	01 / 304); stainless steel (1.4404 / 316L); FKM; PEI	
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		
Remarks				
Notes			s temperatures: The temperature at the process ve. The actual medium temperature may be higher.	
Pack quantity			1 pcs.	

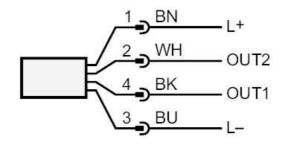
Continuous level sensor (guided wave radar)

LR0000--BN34AMDKG/US

Electrical connection - plug

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

Connection



OUT1:	switching output or IO-Link
OUT2:	analog output
	Colors to DIN EN 60947-5-2
	Core colors :
BK =	black
BN =	brown
BU =	blue
WH =	white



Continuous level sensor (guided wave radar)



