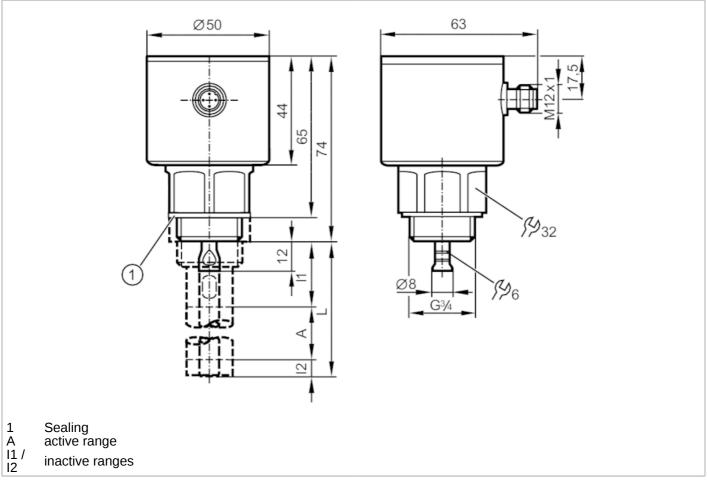
Continuous level sensor (guided wave radar)









Application			
Media		hydrous coolants; oils; oil-based media; water; media similar to water	
Dielectric constant of the medium		≥ 2; (for media with a dielectric constant of 220 (e.g. oils), a coaxial pipe is needed for operation)	
Conditionally suitable for		See the operating instructions, chapter "Function and features".	
Medium temperature	[°C]	080; (90 < 1 h)	
Tank pressure	[bar]	-116	
MAWP (for applications according to CRN)	[bar]	25	
Electrical data			
Operating voltage	[V]	1830 DC	
Operating voltage Current consumption	[V] [mA]	1830 DC < 80	
Current consumption		< 80	
Current consumption Protection class		< 80 III	
Current consumption Protection class Reverse polarity protection	[mA]	< 80 III yes	

Continuous level sensor (guided wave radar)





Outputs			
Total number of outputs		2	
Output signal		analogue signal; IO-Link	
Number of digital outputs		1	
Number of analogue outputs		1	
Analogue current output	[mA]	420	
Max. load	[Ω]	500	
Analogue voltage output	[V]	010	
Min. load resistance	[Ω]	2000	
Overload protection		yes	
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)	
Accuracy / deviations			
Repeatability	[mm]	± 5	
Switch point accuracy	[mm]	\pm (15 + 0,5 %); (% of the final value of the measuring range: L - 30 mm)	
Characteristics deviation		± 10	
Offset error	[mm]	10	
Measuring sensitivity		16 mA ÷ MEW 10 V ÷ MEW	
Resolution	[mm]	0.5 (L < 300 mm) 0.2% MEW (L > 300 mm)	
Zero signal (voltage)	[V]	00.2	
Zero signal (current)	[mA]	3.954.0	
Full signal (voltage)	[V]	1010.1	
Full signal (current)	[mA]	2020.2	
Interfaces			
Communication interface			
Transmission type		COM2 (38,4 kBaud)	
IO-Link revision		1.1	
SDCI standard		IEC 61131-9 CDV	
IO-Link device ID		0x000242	
Profiles		no profile	
SIO mode		no	
Required master port type		А	
Process data analogue		1	
Min. process cycle time	[ms]	2.3	
Operating conditions			
Ambient temperature	[°C]	060	
Storage temperature	[°C]	-2580	
Protection	IP 68; IP 69K		

Continuous level sensor (guided wave radar)

LR0000--BR34A1DKG/US



	EN 61000-6-2		
	EN 61000-6-3	in a metal tank	
	EN 61000-6-4	in a plastic tank	
	DIN IEC 68-2-27	50 g (11 ms)	
	DIN IEC 68-2-6	5 g (102000 Hz)	
[years]	239		
[g]	353.4		
	stainless steel (1.4301 / 304); stain	less steel (1.4404 / 316L); FKM; PEI	
	stainless steel (1.4305 / 303); probe connection: stainless steel (1.4435 / 316L); PTFE; FKM; Sealing: NBR reinforced fibre		
	G 3/4 external thread		
	[9]	EN 61000-6-3 EN 61000-6-4 DIN IEC 68-2-27 DIN IEC 68-2-6 [years] 2 [g] stainless steel (1.4301 / 304); stainless steel (1.4305 / 303); p	

1 pcs.

Electrical connection

Pack quantity

Connector: 1 x M12; Contacts: gold-plated

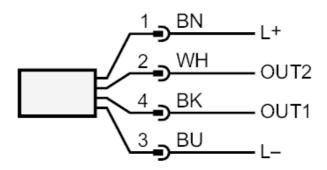


Continuous level sensor (guided wave radar)

LR0000--BR34A1DKG/US



Connection



OUT1: IO-Link

OUT2: analogue output

colours to DIN EN 60947-5-2

Core colours:

 BK =
 black

 BN =
 brown

 BU =
 blue

 WH =
 white