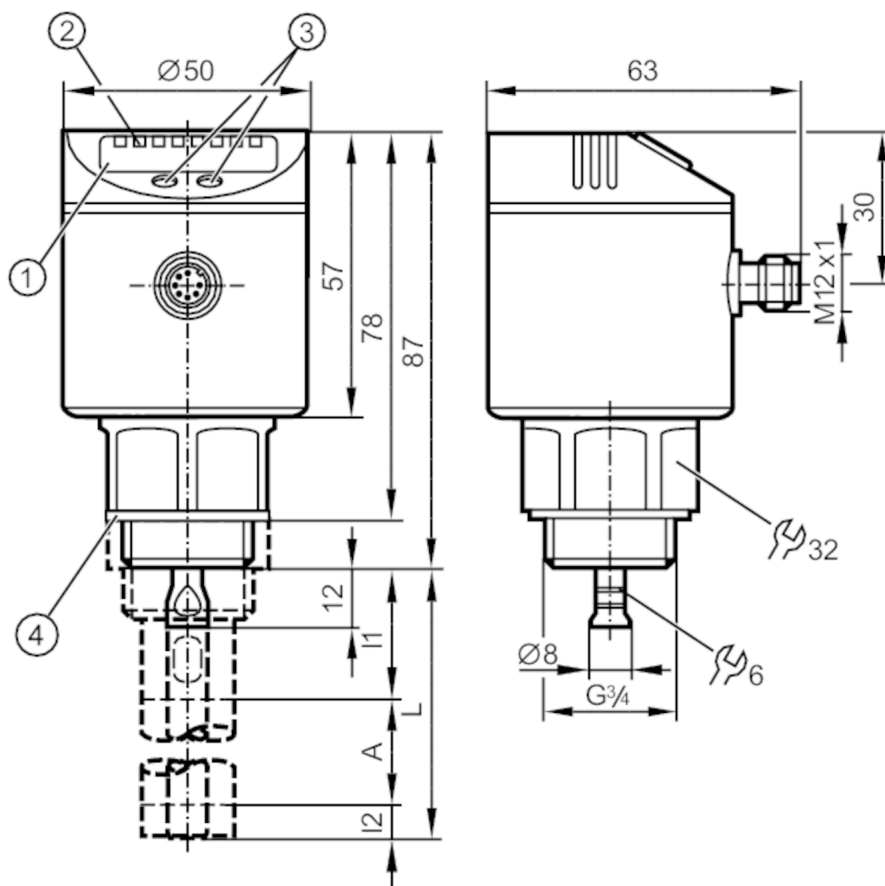


LR8010



Continuous level sensor (guided wave radar)

LR0000B-BR34AVPKG/US



- 1 alphanumeric display 4-digit
- 2 LEDs Display unit / switching status
- 3 programming buttons
- 4 Sealing
- A active range
- I1 / I2 inactive ranges



Application

Installation		Operation only in conjunction with rod and coaxial pipe.
Media		hydrous coolants; oils; oil-based media; water; media similar to water
Dielectric constant of the medium		≥ 2
Cannot be used for		See the operating instructions, chapter "Function and features".
Medium temperature	[°C]	0...80
Tank pressure	[bar]	-0.5...4

Electrical data

Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 65
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 3



Continuous level sensor (guided wave radar)

LR0000B-BR34AVPKG/US

Inputs / outputs			
Number of inputs and outputs		Number of digital outputs: 4	
Outputs			
Total number of outputs		4	
Output signal		switching signal	
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]		100...1600	
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)	
Setting range			
Set point SP [mm]		≥ 15 (35) / ≤ L-30	
Note on setpoint SP		when set to oil and oil based media	
Reset point rP [mm]		≥ 10 (30) / ≤ L-35	
Note on reset point rP		when set to oil and oil based media	
In steps of [mm]		5	
Hysteresis [mm]		> 5	
Overflow switch point OP [mm]		70...L-30	
Hysteresis, OP [mm]		10	
Accuracy / deviations			
Repeatability [mm]		± 5	
Switch point accuracy [mm]		± (15 + 0,5 %); (% of the final value of the measuring range: L - 30 mm)	
Operating conditions			
Ambient temperature [°C]		0...60	
Storage temperature [°C]		-25...80	
Protection		IP 67	
Tests / approvals			
Approval		WHG § 19	
EMC		DIN EN 61000-6-2	
		DIN EN 61000-6-4	
Shock resistance		DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	5 g (10...2000 Hz)
MTTF [years]		183	

LR8010



Continuous level sensor (guided wave radar)

LR0000B-BR34AVPKG/US

Mechanical data		
Weight	[g]	403.6
Materials	stainless steel (1.4404 / 316L); stainless steel (1.4301 / 304); FKM; PBT-GF20; PC; PEI; TPV	
Materials (wetted parts)	stainless steel (1.4305 / 303); probe connection: stainless steel (1.4435 / 316L); PTFE; FKM; Sealing: NBR-PPTA 20	
Process connection	G 3/4 external thread	

Displays / operating elements		
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 8-pole sockets the core colours are not standardised.; Please note the wiring of the sensor and the sockets (see data sheet).
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



Connection

