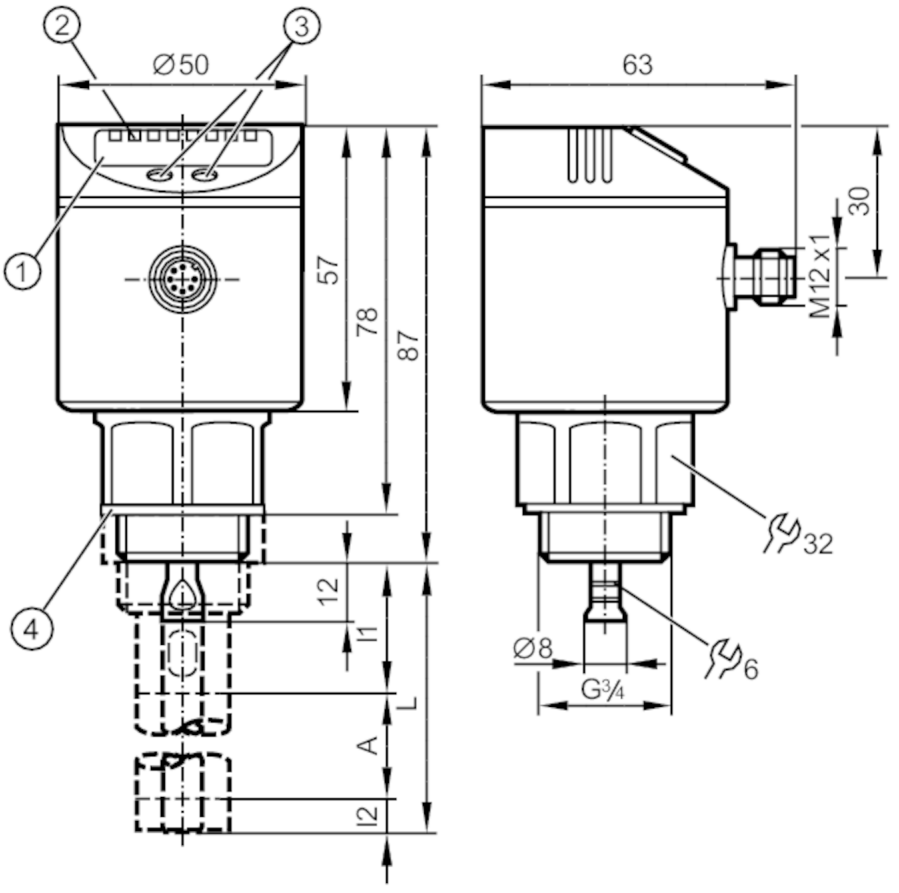
LR8000

Continuous level sensor (guided wave radar)

LR0000B-BR34ASPKG/US



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

CE CRN cULus LISTED EAC IO-Link

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 2...20 (e.g. oils), a coaxial pipe is needed for operation)
Cannot be used for		greases; granulates; bulk material; acids; alkali; heavily foaming media
Medium temperature	[°C]	0...80; (90 < 1 h)
Tank pressure	[bar]	-1...16
MAWP (for applications according to CRN)	[bar]	25
Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 80
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	< 3

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Outputs		
Total number of outputs		4
Output signal		switching signal; IO-Link
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
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
Accuracy / deviations		
Repeatability	[mm]	± 5
Switch point accuracy	[mm]	± (15 + 0,5 %); (% of the final value of the measuring range: L - 30 mm)
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9 CDV
IO-Link device ID		010 d / 00 00 0A h
Profiles		no profile
SIO mode		yes
Required master port type		A
Process data analogue		1
Process data binary		4
Min. process cycle time	[ms]	2.3
Operating conditions		
Ambient temperature	[°C]	0...60
Storage temperature	[°C]	-25...80
Protection		IP 67

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Tests / approvals			
EMC		IEC 60947-1	
Shock resistance		DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance		DIN IEC 68-2-6	5 g (10...2000 Hz)
MTTF	[years]	182.01	
Mechanical data			
Weight	[g]	394.2	
Materials		stainless steel (1.4301 / 304); FKM; PBT; PC; PEI; TPE-V; PTFE	
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
Accessories			
Accessories (optional)		Probe:, E43203...E43205 / E43207...E43210	
		Coaxial pipe:, E43211...E43221, E43223, E43224	
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

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Connection