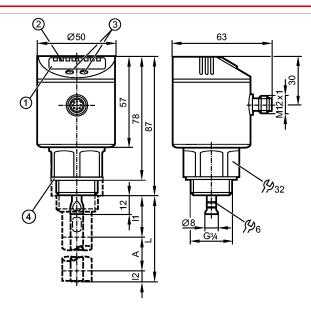
LROUUU



LR0000B-BR34ASPKG/US Level sensors

Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.



- 1: 4-digit alphanumeric display
- 2: LEDs (display unit / switching status)
- 3: Programming buttons
- 4: sealing
- A: Active zone
- I1 / I2: Inactive ranges



Product characteristics	
Electronic level sensor	
Quick disconnect	
Process connection: G ¾ A	
Communication interface: IO-Link 1.1	
Guided wave radar	
Freely rotatable housing 360°	
Probe length: L = 1001600 mm	
4 switch points	
4-digit alphanumeric display	

+ digit dipilariament dispil	uy .	
Application		
Application		Hydrous coolants, oils, oil-based media, water, media similar to water
Cannot be used for:		fats, granulates, bulk materials, acids, alkalis; hygienic and electroplating applications; heavily foaming media
Medium temperature	[°C]	080 (90 < 1 h)
Maximum speed of the ch level	ange of [mm/s]	100
Dielectric constant mediur	n	≥ 2 for media with a dielectric constant 220 (e.g. oils) a coaxial pipe is required for operation (see below: accessories (optional))

Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	1830 DC
Current consumption	[mA]	< 80
Protection class		III



LR0000B-BR34ASPKG/US



Level sensors

Reverse polarity protection		yes
Outputs		
Output		4 switch points
Output function		4 x normally open / closed programmable
Current rating	[mA]	200
Voltage drop	[V]	< 2.5
Short-circuit protection		thermal, pulsed
Overload protection		yes (max. 10 s)
Measuring / setting range		
Probe length L	[mm]	1001600
Active range A	[mm]	L-40 (L-60)*)
Inactive range I1 / I2	[mm]	30 / 10 (30)*)
Setting range		
Set point, SP	[mm]	≥ 15 (35)*) / ≤ L-30
Reset point, rP	[mm]	≥ 10 (30)*) / ≤ L-35
in steps of	[mm]	5
Hysteresis	[mm]	≥5
Accuracy / deviations		
Deviations (in mm)		
Switch point accuracy		± (15 + 0.5 % MEW**))
Repeatability		± 5
Reaction times		
Power-on delay time	[s]	≤ 3
Interfaces		
IO-Link Device		
Transfer 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 class		Α
Process data analogue		1
Process data binary		4
Min. process cycle time	[ms]	2.3
Environment		
Ambient temperature	[°C]	060
Storage temperature	[°C]	-2580
Maximum vessel pressure	[bar]	-116
Protection		IP 67
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 (102000 Hz)
MTTF	[Years]	182.01

LR0000B-BR34ASPKG/US



Level sensors

Mechanical data		
Process connection		G ¾ A
Materials (wetted parts)		303 / 1.4305 (V2A); probe connection: 1.4435 (V4A / 316L); PTFE; FKM; sealing: NBR-PPTA 20
Housing materials		304 / 1.4301 (V2A); FKM; PBT; PC; PEI; TPE - V; PTFE
Weight	[kg]	0.394
Displace I suspetion slave		

Displays / operating elements

Display unit 3 x LED green
Switching status 4 x LED yellow

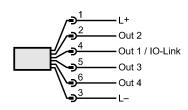
Level 4-digit alphanumeric display Programming 4-digit alphanumeric display

Electrical connection

Connection M12 connector (according to EN 61076-2-101); gold-plated contacts

Wiring





Programming of the switching outputs:

Hno = hysteresis / NO Hnc = hysteresis / NC Fno = window / NO Fnc = window / NC

Accessories

Accessories (optional)

Probe, part no. E43203...E43205 / E43207...E43210;

Coaxial tube, part no. E43211...E43221, E43223, E43224;

Matching accessories online next to the Datasheet → Accessories

Remarks		
Remarks		*) when set to oil and oil based media**) MEW = final value of the measuring range in mm; MEW = L - 30 mm
Pack quantity	[piece]	1

ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — US — LR8000 — 08.06.2015

Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.