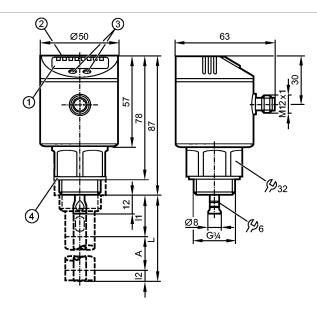
efector160

LR7000

LR0000B-BR34AQPKG/US





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



Made in Germany

Product characteristics

Electronic level sensor

Connector

Process connection: G ¾ A

Communication interface: IO-Link 1.1 (COM2 slave, 38.4 kBaud)

Guided wave radar

Freely rotatable housing 360°

Reverse polarity protection

Outputs

Probe length: L = 100160	00 mm	
2 switching outputs		
4-digit alphanumeric displa	.y	
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 challevel	inge of [mm/s]	100
Dielectric constant medium	1	≥ 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

yes

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Output		2 switching outputs
Output function		2 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		008 d / 00 00 08 h
Profiles		no profile
SIO mode		yes
Required master port type		A
Process data analogue		1
Process data binary	[ma]	2
Min. process cycle time	[ms]	2.3
Environment	[°C]	060
Ambient temperature	[°C]	-2580
Storage temperature Maximum vessel pressure	[°C] [bar]	-2500
Protection	[Dai]	-14 IP 67
Tests / approvals		IF O7
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]	208
Mechanical data		
Process connection		G ¾ A

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Level sensors

Materials (wetted parts)	stainless steel (303S22); probe connection: stainless steel 316L / 1.4435; PTFE;

FKM; sealing: Tesnit

Housing materials stainless steel (304S15); FKM; PBT; PC; PEI; TPE / V; PTFE

Weight 0.386 [kg]

Displays / operating elements

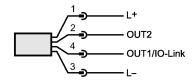
Display Display unit 3 x LED green Switching status 2 x LED yellow

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

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, order no. E43203...E43205 / E43207...E43210; Coaxial pipe, order 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

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