

Continuous level measurement in harsh environments



LR level sensor in a new design with extended functions

- Mounting adjustment enables position-independent installation
- Medium temperature up to 100 °C
- Simulation function facilitates testing of the plant software
- Automatic detection of the rod length
- Probe lengths of 15...200 cm

High-grade stainless steel

IP 69 K

IO-Link

LED Display

Application

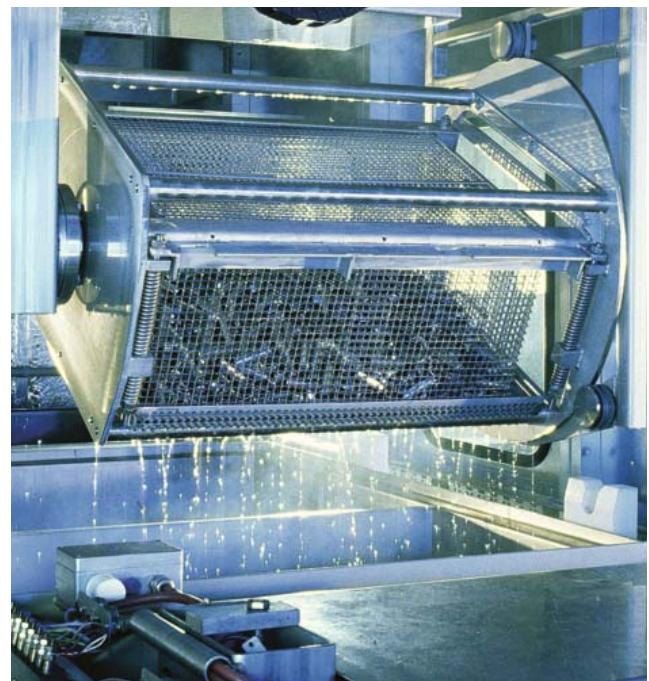
Harsh environment conditions or high temperatures leave the LR2050 cold. Installation in confined spaces or detection of oils using a coaxial pipe is no problem for LR, either. LR flexibly adapts to any application thanks to the installation adjustment and the modular concept.

Successful thanks to modular concept

The probes can be shortened, or changed, so the LR reduces stock-keeping and simplifies replacement.

User-friendly setting


Even before installation the user can set the sensor parameters via pushbuttons or IO-Link on the PC. Installation adjustment is made on site via pushbutton, if required.






Application: aqueous media, coolants, cleaning agents, oils. *


Process connection	Medium temperature [°C]	Max. tank pressure [bar]	Protection rating/ protection class	Order no.
M12 connector · IO-Link 1.1				
G 3/4	-20...100	-1...4	IP 68, IP 69K / III	LR2050

Accessories (to be ordered separately)

Type	Description	Order no.
Rods stainless steel (303 / 1.4305)		
	210 mm	E43351
	240 mm	E43203
	265 mm	E43352
	300 mm	E43226
	450 mm	E43204
	500 mm	E43227
	700 mm	E43205
	1000 mm	E43207
	1200 mm	E43208
	1400 mm	E43209
	1600 mm	E43210
2000 mm	E43353	

Coaxial pipes stainless steel (303 / 1.4305)		
G 3/4 	210 mm	E43354
	240 mm	E43211
	265 mm	E43355
	300 mm	E43228
	450 mm	E43212
	500 mm	E43229
	700 mm	E43213
	1000 mm	E43214
	1200 mm	E43215
	1400 mm	E43216
3/4" NPT 	450 mm	E43218
	700 mm	E43219
	1000 mm	E43220
	1600 mm	E43221



Coaxial pipes, slotted stainless steel (304S15 / 1.4301)		
	700 mm	E43333
	1200 mm	E43334

Flange plates stainless steel (303 / 1.4305)		
	Flange plate, LR 73-90	E43201
	Flange plate, LR 73 - 90 / NPT	E43206
	Flange plate, LR 65-80	E43202




Further technical data		
Operating voltage	[V]	18...30 DC
Current rating	[mA]	200
Current consumption	[mA]	< 50
Power-on delay time	[s]	≤ 3
Dielectric constant medium		1.8...5* > 5
Ambient temperature	[°C]	-40...80
Metals in contact with the medium		high-grade stainless steel (316L / 1.4404, 316S12 / 14435), PTFE, FKM
Housing materials		high-grade stainless steel (316L / 1.4404), PEI, PBT, PTFE, FKM
IO-Link device type of transmission		1.1

* A coaxial pipe is required for the unit to function correctly in low dielectric media.

Connection technology

Type	Description	Order no.
	Socket, M12, 4-pole 2 m black, PUR cable	EVC004
	Socket, M12, 4-pole 5 m black, PUR cable	EVC005
	Socket, M12, 4-pole 2 m black, PUR cable, LED	EVC007
	Socket, M12, 4-pole 5 m black, PUR cable, LED	EVC008

IO-Link accessories

Type	Description	Order no.
	IO-Link interface for parameter setting and analysis of units with DTM specification, current consumption from USB port: max. 500 mA	E30396
	Memory plug, parameter memory for IO-Link sensors	E30398
	LINERECORDER SENSOR, software for parameter setting and setting up IO-Link sensors	QA0001

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