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Martens
Member of GHM GROUP
Hygienic Design

Product information

Potentiometric level sensor MLP437-OR



- Continuous level measurement
- Suitable for metallic tanks and containers
- Process connection GHMadapt G ½" hygienic
- Flexible installation, compact version
- No moving parts in the measured fluid
- 2 switching outputs, analogue output
- Parameterisation via local display with capacitive keys and internal USB interface

Technical data

Power supply

Supply voltage : 18..30 V DC, max. 130 mA
Electrical connection : M12 plug or cable M16x1,5 gland
Polyamide (PA) or stainless steel (1.4305)

CE conformity : EN 61326-1:2013

Ambient conditions

Ambient temperature : -20..+60 °C
Climate class : EN 60068-2-38:2009
Vibrations : EN 60068-2-6:2008, GL Test 2

Sensor

Probe tube length : 100..999 mm (Ø 6 mm),
(Measuring range) 1000..2500 mm (Ø 10 mm)
Process temperature : -20..+100 °C, 140 °C < 30 min.
CIP- / SIP capable

Process pressure : -1..10 bar
Process material : 1.4404, PEEK, FDA compliant,
compliant to regulation
1935/2004 & 10/2011

Process connection : G ½" hygienic

Torque : 5..10 Nm

Min. media conductivity : 1µS < 20 µS, ≥ 20µS

Measuring accuracy : < 3% < 0.5 % of measuring range

Linearity : < 2% < 0.3 % of measuring range

Output

Analogue output : Active, 0/4..20 mA, Resistance < 600 Ω

Damping : Programmable from 0.05..10 s

Switching outputs : Transistor PNP / NPN programmable,
max. 30 V / 100 mA

Response time : Programmable from 0.01..10 s

Galvanic isolation : Sensor, Power supply/outputs

Display : Graphic LC display, white/red backlighting

Keys : 4 capacitive keypads

Housing : Round stainless steel housing Ø 59 mm

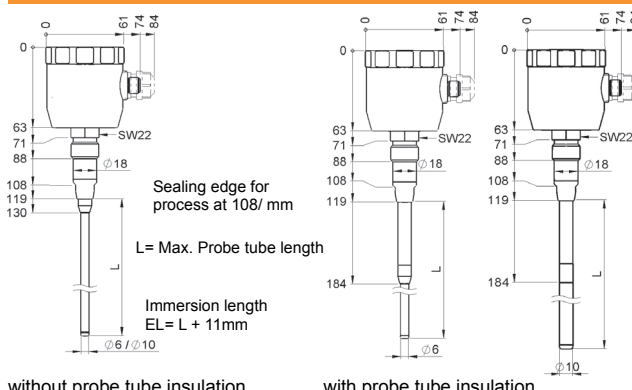
Material : 1.4305

Viewing window : Acrylic glass (PMMA)

Protection class : IP67 / IP69K

Accessories	
ACI211	USB connection cable
APH process adaptation, ACH connection lines see separate product information GHMadapt / Accessories	

Dimensions



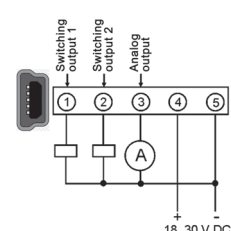
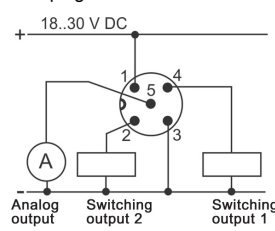
without probe tube insulation

with probe tube insulation

Wiring

M12 plug

internal terminal and USB mini B jack



Cable colours M12 plug: 1 = brown, 2 = white, 3 = blue, 4 = black, 5 = grey

Order code

MLP437 - OR - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9

1. Type	OR	Without reference electrode
2. Process connection	2	G½" hygienic
3. Probe tube material	0	stainless steel (316L) 1.4404
	1	stainless steel (316L) 1.4435
4. Probe tube diameter	06	6 mm
	10	10 mm
5. Immersion length (length specification to 1 mm)	0100..0500	100 to 500 mm
	0501..0999	501 to 999 mm
	500..1500	500 to 1500 mm
	1501..2500	1501 to 2500 mm
6. Probe tube insulation	0	without insulation
	1	with PFA-insulation (For installation from top)
7. Electrical connection	0	M12- plug (standard)
	1	cable gland M16x1,5; polyamide (PA)
	2	cable gland M16x1,5; stainless steel (1.4305)
8. Options	00	without option
9. Certificate according to DIN EN 10204. Please specify only if required.	WZ2.2	certificate of conformity 2.2

Subject to technical changes