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Martens
Member of GHM GROUP
Hygienic Design

Product information

Potentiometric level meter MLP433-MR



- Continuous level measurement
- Suitable for non-metallic tanks and containers
- Process connection GHMadapt G 1" hygienic
- Flexible installation, compact version
- No moving parts in the measured fluid
- 2 switching outputs, analogue output
- Wide view LED status display
- Parameterisation with GHMware via USB interface

Technical data

Power supply

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

CE conformity : EN 61326-1:2013

Ambient conditions

Ambient temperatur : -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)
Reference rod : Ø 4 mm, independent from range
Process temperature : -20..+100 °C, 140 °C < 30 min.
CIP- / SIP capable

Process pressure : -1..10 bar
Process material : 1.4404, PEEK, FDA compliant
Process connection : G 1" 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

Outputs

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

LED status message : 3 colours, programmable

Housing : Round stainless steel housing Ø 59 mm

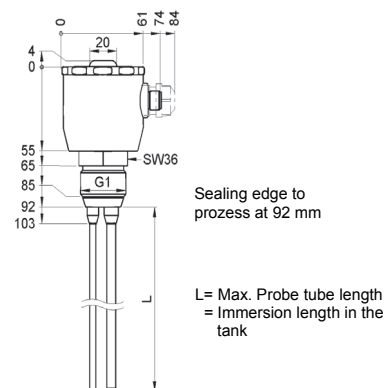
Material : 1.4305

LED viewing window : Acrylic glass (PMMA)

Protection class : IP67 / IP69K

Accessories / spare parts	
AMD200	Spacer for probe tube diameter 6 mm
AMD201	Spacer for probe tube diameter 10 mm
ACI211	USB connection cable
ACH connection lines, APH process adaptation, see separate product information GHMadapt/Accessories	

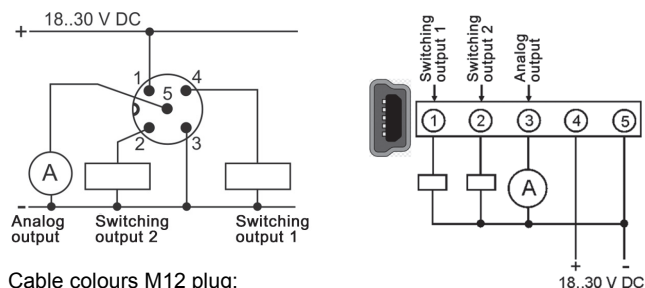
Dimensions



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

MLP433 - 1. 2. 3. 4. 5. 6. 7. 8. 9.
MR - - - - -

1. Type	MR	Without reference electrode
2. Process connection	3	G1" 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
	0500..1500	500 to 1500 mm
	1501..2500	1501 to 2500 mm
6. Probe tube insulation	0	without insulation
7. Electrical connection	0	M12- plug (standard)
	1	cable gland M16x1.5; polyamide (PA)
	2	cable gland M16x1.5; stainless steel (1.4305)
8. Option	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