

Conductiv filling level device CFP



General

- these probes are used for level detection or for the 2-point-regulation of electrically conductive fluids.

Intended Use

- as a level probe with 2 probes as a minimum or maximum level indicator.
- as a level probe with 3 probes as a 2-point controller.

Function

- these probes are intended as sensors for the conductive principle; i.e. the electrical conductivity of the fluid to be controlled is used to determine the filling/limit.

Limits Of Use

- conductive filling level regulations are not suitable for fluids that contain oil or grease or are susceptible to forming electrically insulating sediments. We do not recommend the use of probes for:
- electrically non-conductive fluids
- fluids containing larger solid matter particles
- fluids to which stainless steel (1.4571) is not permanently resistant

Measuring Value

- filling level

Power Supply

- 18 ... 30 VDC

Electronic Housing

- housing: PP-glass fibre reinforced
- cover: PP-glass fibre reinforced
- seal: NBR

Connection Cable

- cable outer diameter of 7...13 mm
- nominal cross-section 1.5 mm²

Type Of Protection

- IP 67

Process Connection

- G1" screw-in thread
- housing: PE
- seal: EPDM
- alternative with PE-mounting kit

Measuring Principle

- conductive

Rod Version

- material: stainless steel (1.4571)
- insulation: partly insulated, polyolefin
- rod lengths: 100, 500 or 1000 mm

Attention

- rod length to be cut by customer

Fluid Temperature

- 0 ... +70°C

Ambient Temperature

- -20 ... +70°C

Ambient Pressure

- 0,8 ... 1,1 bar

Relative Humidity

- 20 ... 85%

Accessories

- PE-mounting kit with PE-pipe clip $\varnothing 40$, PE-spacer and PE-angle support (Ident-no. 140727)

Installation Note

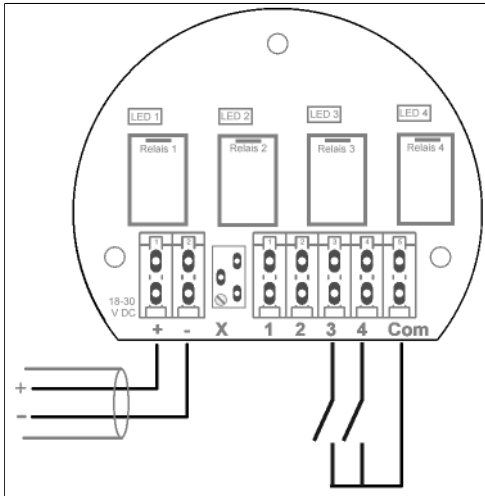
- only mount vertically from above

Maintenance Note

- when used in accordance with its intended use: none

Level measurement, Conductiv filling level device CFP

Electrical connection



- + = Electrical conductor (3 ... 18 VDC)
- = Neutral
- 1 = Relay 1 (NO)
- 2 = Relay 2 (NO)
- com = Relay 1-4 (com)
- x = Poti for sensitivity

Example

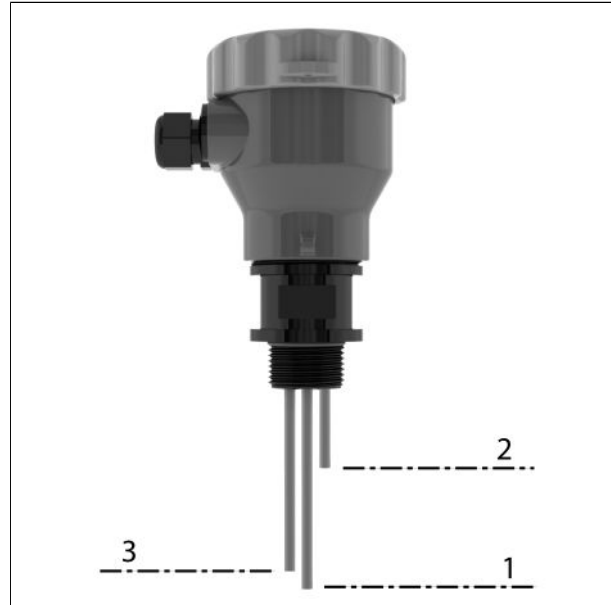
2-rod probe



- 1 = Reference
- 2 = Maximum or Minimum

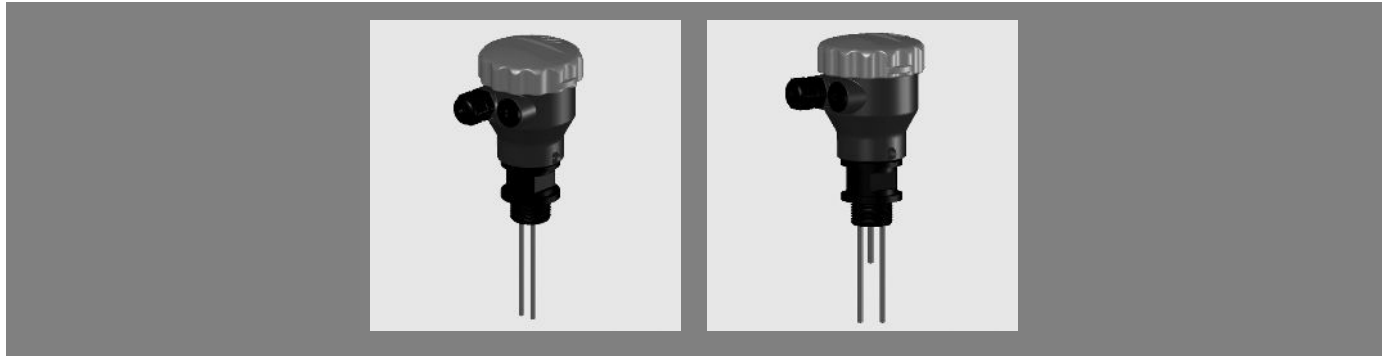
Example

3-rod probe



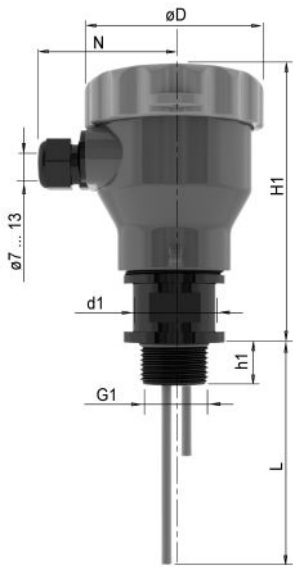
- 1 = Reference
- 2 = Maximum
- 3 = Minimum

Level measurement, Conductiv filling level device CFP



body PP - GF		null null						
size	L(mm)		100	500	500	1,000	1,000	
pressure range	version		2-rod	2-rod	3-rod	2-rod	3-rod	
Connection	sealing	ident No.						
PE threaded neck G	EPDM		141935	141936	141938	141937	141939	

Level measurement, Conductiv filling level device CFP



dimensions

G(inch)	1	1	1	1	1
L(mm)	100	500	500	1,000	1,000
version	2-rod	2-rod	3-rod	2-rod	3-rod

dimensions(mm)

D	86	86	86	86	86
G	1	1	1	1	1
d1	40	40	40	40	40
H1	130	130	130	130	130
h1	20	20	20	20	20
L	100	500	500	1000	1000
N	66	66	66	66	66

