STÜBBE

CFP CONDUCTIV FILLING LEVEL DEVICE
DATASHEET

1.4571 PE

Characteristics

- compact design with integrated relay
- for conductive media
- 2 or 3 electrode rods made of 1.4571 stainless steel for 1 or 2 filling levels
- simple installation by G 1″ housing thread or DN 25 tube clamp
- operation voltage 24 VDC / casing head IP 67

Note

- rod length to be cut by customer

CFP Conductiv filling level device

General	- these probes are used for level detection or for 2-point control for electrically conductive liquids.
Application	- 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 controler.
Measuring category	- level
Measuring principle	- conductive
Device connection	- G1" screw-in thread - Housing: PE - seal: EPDM - alternative with PE-mounting kit
STÜBBE resistance guide	- www.stuebbe.com/pdf_resistance/300051.pdf
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.
Housing material (with medium contact)	- 1.4571 - PE
Material sealing element (in contact with medium)	- EPDM
Electronics housing	- housing: PP-glass fibre reinforced - cover: PP-glass fibre reinforced - Housing seal: NBR
Rod design	- material: stainless steel (1.4571) - insulation: partly insulated, polyolefin - rod lengths: 100, 500 or 1000 mm
Fluid temperature	- 0...+70
Maintenance note	- when used in accordance with its intended use: none
Ambient temperature in °C	- -20...+70
Umgebungsdruck in bar	- 0,8 ... 1,1
Relative humidity in %	- 20 ... 85%
Mounting position	- vertical
Type of protection	- IP 67

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Connection cable	- cable outer diameter of 7...13 mm - nominal cross-section: 1.5 mm^2
Voltage supply	- 18 ... 30 VDC
Accessories	- PE-mounting kit with PE-pipe clip ø40, PE-spacer and PE-angle support (Ident-no. 140727)
Application limits	- 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

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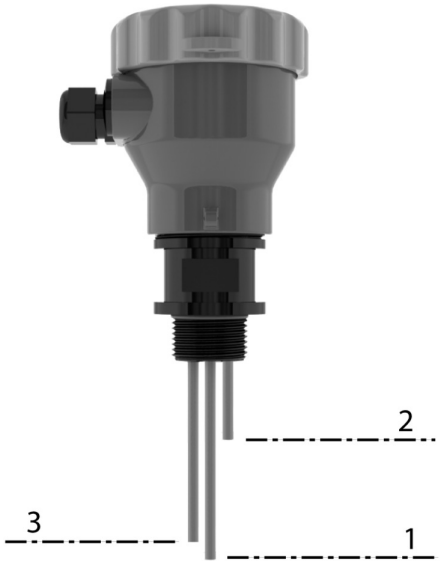
2-rod probe

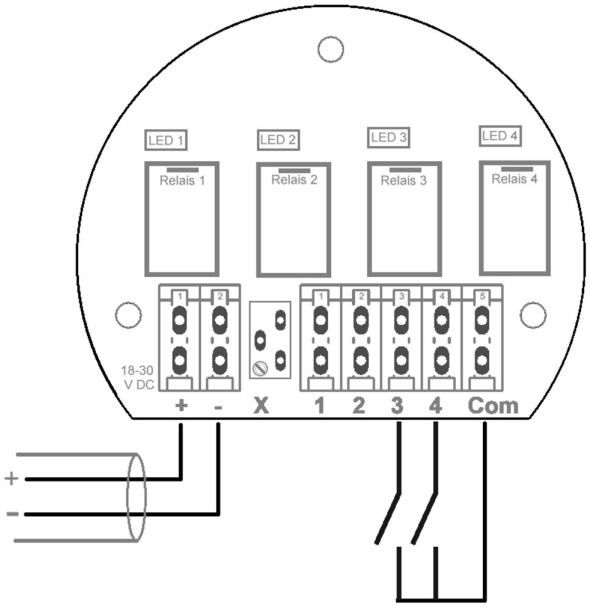
Probe	Signal
1	Reference
2	Maximum or Minimum

3-rod probe



Probe	Signal
1	Reference
2	Maximum
3	Minimum

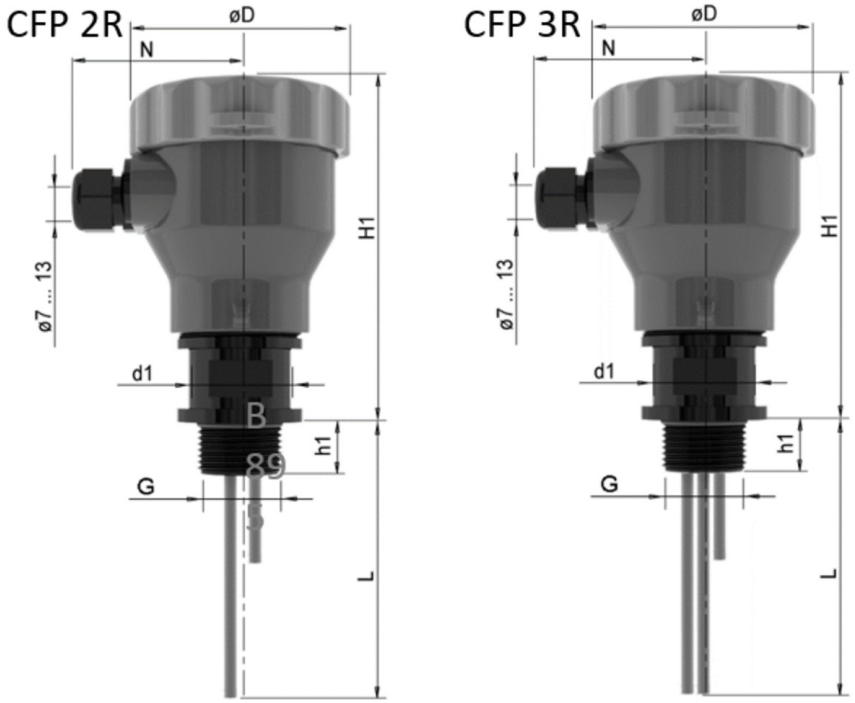
Electrical connection



Terminal	Connection
+	Voltage supply (18–30 V DC)
-	Voltage supply (–)
1	Relay 1 normally open contact
2	Relay 2 normally open contact
COM	Relay 1–4 COM
x	Poti for sensitivity

CFP Conductiv filling level device

Dimensioned drawing



G*	1	1	1	1	1
L	**100**	**500**	**500**	**1.000**	**1.000**
CFP	**CFP 2 R**	**CFP 2 R**	**CFP 3 R**	**CFP 2 R**	**CFP 3 R**
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

all dimensions in mm / * in inch

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