

VEGACAP 69

Transistor (NPN/PNP)

Capacitive double rod electrode for level detection



Application area

VEGACAP 69 is a point level sensor for aggressive liquids in non-conductive vessels. The double rod electrode is fully insulated and highly resistant.

Your benefit

- Low mounting efforts due to compact double rod construction
- Long lifetime and low maintenance requirement through highly resistant materials
- Simple use in non-conductive vessels through ground rod

Function

Sensor and vessel form the two electrodes of a capacitor. A capacitance change caused by a level change is evaluated by the integrated electronics and converted into a switching signal. The capacitive measuring principle has no special requirements in respect to installation and mounting.

Technical data

Measuring range	
– Double rod	up to 4 m
Process fitting	Flanges DN 50, 2"
Process pressure	-1 ... +2 bar/-100 ... +200 kPa
Process temperature	-40 ... +100 °C
Ambient, storage and transport temperature	-40 ... +80 °C (-40 ... +176 °F)
Operating voltage	10 ... 55 V DC
Power consumption	max. 0.5 W
Load current	< 400 mA
Voltage loss	< 1 V
Switching voltage	< 55 V DC
Blocking current	< 10 µA
Switching delay	0.7 s (on/off)

Materials

The wetted parts of the instrument are made of FEP. The connection flange of the probe is optionally made of PP or PTFE.

You will find a complete overview of the available materials and seals in the "configurator" on our homepage at www.vega.com/configurator.

Housing versions

The housings are available in plastic, stainless steel or Aluminium. They are available with protection ratings up to IP 67.

Electronics versions

The instruments are available in different electronics versions. Apart from the versions with transistor output, contactless electronic switch and relay output, a two-wire version for connection to a signal conditioning instrument is available.

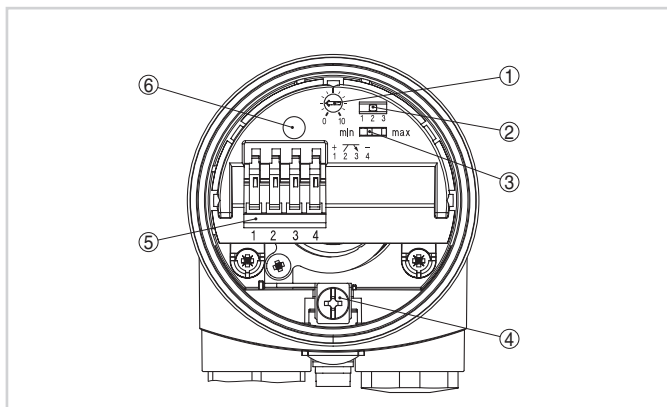
Approvals

The instruments are suitable for use in hazardous areas and are approved e.g. according to ATEX and IEC. The instruments also have various ship approvals such as e.g. GL, LRS or ABS.

You can find detailed information at www.vega.com/downloads and "Approvals".

Adjustment

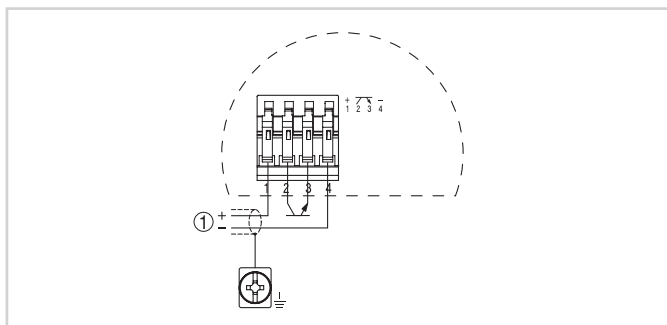
The mode and switching point of the level switch can be adjusted on the electronics module. A signal lamp shows the switching status of the instrument.



Oscillator - Transistor output

- 1 Potentiometer for switching point adaptation
- 2 DIL switch for measuring range selection (with compensation button)
- 3 DIL switch for mode adjustment
- 4 Ground terminal
- 5 Connection terminals
- 6 Control lamp

Electrical connection

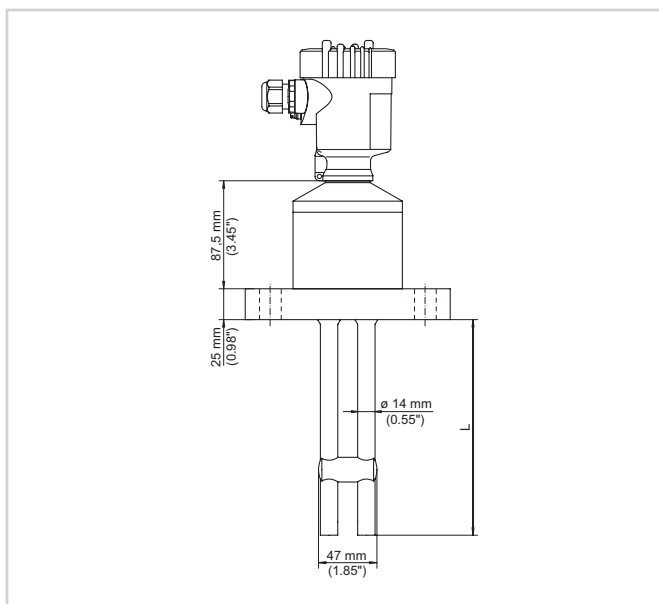


Wiring plan

- 1 Voltage supply

You can find details on electrical connection in the instrument operating instructions on our homepage at www.vega.com/downloads.

Dimensions



Information

You can find further information on the VEGA product line on our homepage www.vega.com.

In the download section under www.vega.com you'll find free operating instructions, product information, brochures, approval documents, instrument drawings and much, much more.

Instrument selection

With the "Finder" at www.vega.com and "VEGA Tools" you can select the most suitable measuring principle for your application.

You can find detailed information on the instrument versions in the "Configurator" at www.vega.com and "VEGA Tools".

Contact

You can find the VEGA agency serving your area on our homepage www.vega.com.