

VEGACAP 66

Two-wire

Capacitive cable electrode for level detection



Anwendungsbereich

Der VEGACAP 66 ist ein Grenzstandsensoren zum Einsatz in allen Industriebereichen. Die vollisolierte Messsonde misst in Flüssigkeiten und Schüttgütern gleichermaßen. Der bewährte Aufbau gewährleistet eine hohe Funktionssicherheit.

Advantages

- Long lifetime and low maintenance requirement through robust mechanical construction
- Savings through simple mounting and setup
- Maximum use of the vessel, because measurement over the complete probe length

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

Sensor length	up to 32 m (105 ft)
Process fitting	Thread from G1, 1 NPT, flanges from DN 50, 2"
Process pressure	-1 ... +40 bar/-100 ... +4000 kPa (-14.5 ... +580 psig)
Process temperature	-50 ... +150 °C (-58 ... +302 °F)
Ambient, storage and transport temperature	-40 ... +80 °C (-40 ... +176 °F)
Operating voltage	10 ... 36 V DC (via the signal conditioning instrument)
Output signal	
– Suitable signal conditioning instruments	VEGATOR 521, 527, 620, 621, 622
– Output signal	> 4 ... < 20 mA (not standardised)
– Fault message	< 2.3 mA
Switching delay	0.7 s (on/off)

Materials

The wetted parts of the instrument are fully PTFE insulated. The gravity weight is made of stainless steel. You will find a complete overview of the available materials and seals in the "configurator" on our homepage under 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

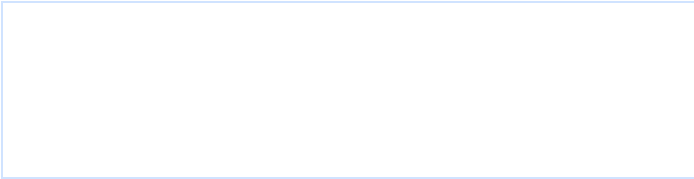
The instruments are available in different electronics versions. Apart from the versions with transistor output, contactless electronic switch and relay output, a two-wire version for connection to a signal conditioning instrument is available.

Approvals

The instruments are suitable for use in hazardous areas and are approved e.g. according to ATEX and IEC. The instruments have also different ship approvals such as e.g. GL, LRS or ABS. You can find detailed information on the existing approvals in the "configurator" on our homepage under www.vega.com/configurator.

Operation

The mode and switching point of the limit switch are adjusted on the connected signal conditioning instrument.



Electronics module - Two-wire output

- 1 DIL switch for measuring range selection (with compensation button)
- 2 Ground terminal
- 3 Connection terminals
- 4 Control lamp

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

Instrument selection

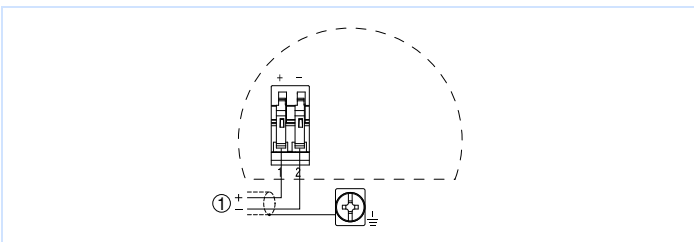
With the "finder" you can select the most suitable measuring principle for your application: www.vega.com/finder.

You can find detailed information on the instrument versions in the "configurator" on our homepage under www.vega.com/configurator.

Contact

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

Electrical connection

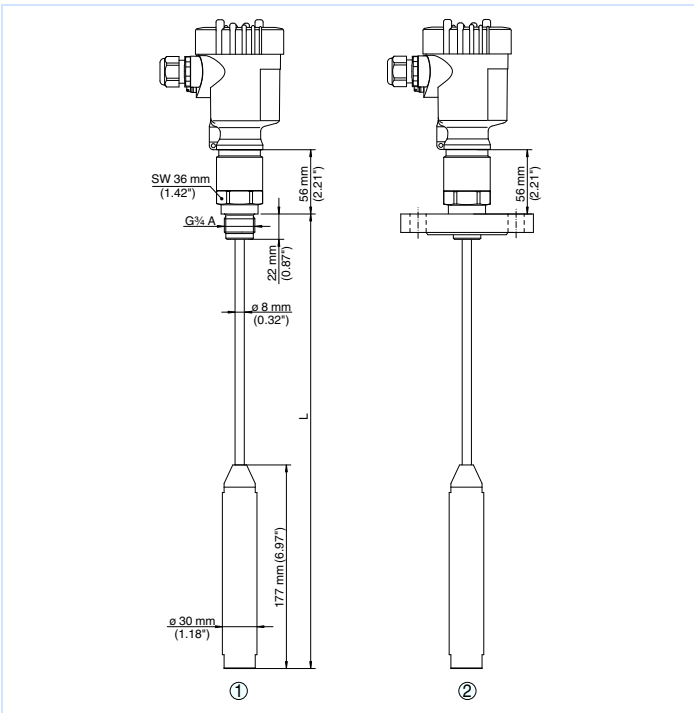


Wiring plan

- 1 Voltage supply

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

Dimensions



- 1 Threaded version
- 2 Flange version

Information

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