Specification sheet

VEGACAP 35

Relay (DPDT)

Capacitive cable electrode for level detection

Application area

The VEGACAP 35 is an adjustment-free, capacitive point level switch for bulk solids. Typical applications are overfill and dry run protection. The probe operates in liquids with a dielectric constant from 1.5.

Your benefit

- Minimum time and cost expenditure due to simple setup without medium
- Exact switching point even with strong buildup or condensation
- Long lifetime and low maintenance requirement through robust mechanical construction

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 20 m (65.62 ft)
Process fitting	Thread from G1½ A, 1½ NPT
Process pressure	-1 … +16 bar (-100 … +1600 kPa/-14.5 … +232 psig)
Process temperature	-40 … +80 °C (-40 … +176 °F)
Ambient, storage and transport temperature	-40 … +80 °C (-40 … +176 °F)
Operating voltage	20 … 253 V AC, 50/60 Hz; 20 … 72 V DC
Power consumption	1 … 8 VA (AC), approximately 1.5 W (DC)
Switching voltage	min. 10 mV, max. 253 V AC, 253 V DC
Switching current	min. 10 µA, max. 3 A AC, 1 A DC
Breaking capacity	min. 50 mW, max. 750 VA AC, 54 W DC
Switching delay	0.7 s (on/off)

Materials

The wetted parts of the instrument are fully PE/PA 12 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 at www.vega.com/configurator.

Housing versions

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

Electronics versions

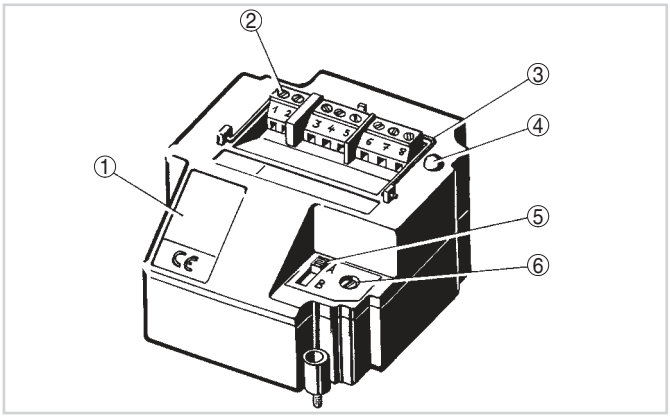
The instruments are available with a relay output (DPDT).

Approvals

The instruments are approved as overfill protection system according to the Water Resources Act (WRA).
You can find detailed information on the existing approvals in the "*configurator*" on our homepage at www.vega.com/configurator.

Operation

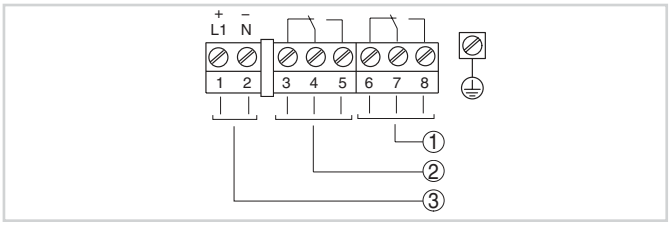
The mode and switching point of the level switch can be adjusted on the electronics module. A signal lamp shows the switching status of the instrument.



Oscillator with relay output

1 *Type label*
2 *Connection terminals*
3 *Tensile proving ring*
4 *Control lamp*
5 *DIL switch for mode adjustment*
6 *Potentiometer for switching point adaptation*

Electrical connection

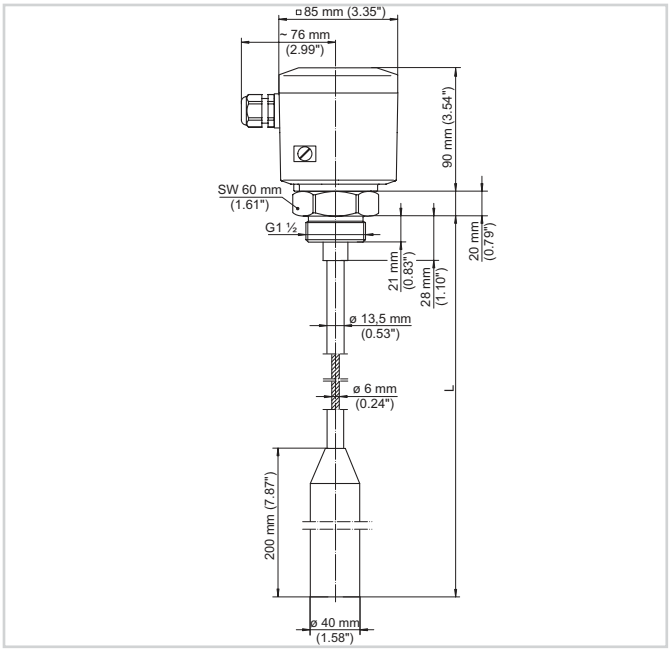


Wiring plan

1 *Relay output*
2 *Relay output*
3 *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/downloads 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/finder 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/configurator and "*VEGA Tools*".

Contact

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