VEGACAP 66
Two-wire
Capacitive cable electrode for level detection

Technical data

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

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.

Anwendungsbereich

Der VEGACAP 66 ist ein Grenzstandssensor 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.
**Operation**

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

**Electronics module - Two-wire output**

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

**Electrical connection**

In the download section under [www.vega.com/downloads](http://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](http://www.vega.com/finder). You can find detailed information on the instrument versions in the "configurator" on our homepage under [www.vega.com/configurator](http://www.vega.com/configurator).

**Contact**

You can find the VEGA agency serving your area on our homepage [www.vega.com](http://www.vega.com).

**Dimensions**

You can find more information about the instrument versions in the "configurator" on our homepage under [www.vega.com/configurator](http://www.vega.com/configurator).

**Information**

You can find further information about the VEGA product line on our homepage [www.vega.com](http://www.vega.com).