Specification sheet

# EL 6

## Conductive multiple cable electrode

### Application area

The multiple cable electrode EL 6 is a universal level switch for conductive liquids. The instrument is ideal as overfill and dry run protection in conjunction with VEGATOR 256C and VEGATOR 632 signal conditioning instruments.

### Your benefit

- Economical pump control through multiple cable probe
- High flexibility in use through shortenable cable probe
- Reduced stockkeeping through exchangeable cable probes

### Function

The instruments are used for level detection in conductive liquids. A VEGATOR 256 C or 632 is required for operation of the conductive probe. When the probe is immersed, a slight alternating current flows and is detected, evaluated and converted into a switching command by the signal conditioning instrument. The switching point is determined via the mounting position or the length of the respective probe.

### Technical data

| | |
|---|---|
| Probe length | up to 50 m (164.04 ft) |
| Conductance of the medium | min. 7.5 µS/cm |
| Process fitting | Thread G1½ |
| Process pressure | -1 … +6 bar/-100 … +600 kPa (-14.5 … +87 psig) |
| Process temperature | -20 … +100 °C (-4 … +212 °F) |
| Ambient, storage and transport temperature | -40 … +80 °C (-40 … +176 °F) |
| Voltage supply | Via the connected signal conditioning instrument |

### Materials

The wetted parts of the instrument are made of PP. The cables and the gravity weights of the probe are 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 housing is made of plastic (PP).
It is available with protection rating up to IP 66/IP 67.

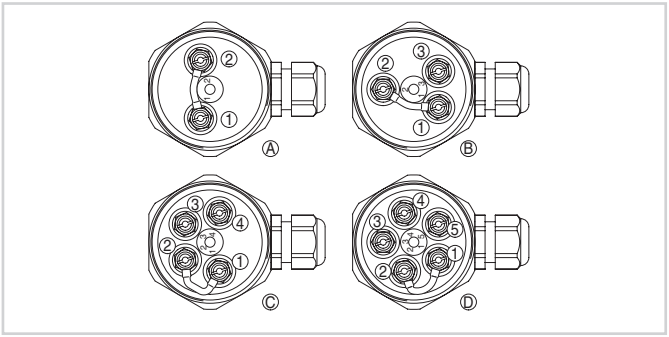
### Electronics versions

The probe is operated with external processing. The connected signal conditioning instrument powers the probe and provides a switching signal.

## Operation

You can find the setup procedure for EL 6 in the operating instructions manual of the corresponding signal conditioning instrument.

## Electrical connection

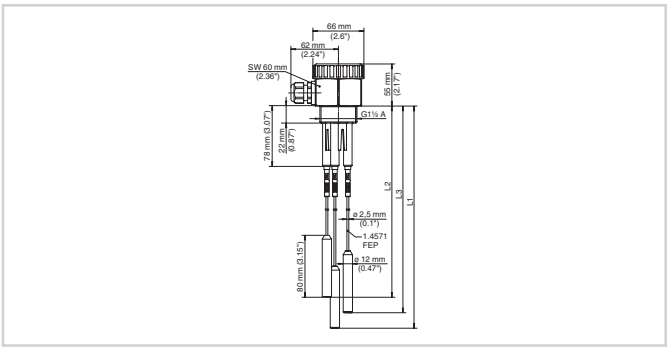



Connection compartment of the probe - 220 kΩ resistance between terminals 1 and 2

1 *Connection terminal 1 = longest probe*
2 *Connection terminal 2 = shortest probe*
A *Probe with 2 measuring electrodes*
B *Probe with 3 measuring electrodes*
C *Probe with 4 measuring electrodes*
D *Probe with 5 measuring electrodes*

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

## Dimensions




Conductive probe EL 6

L1-3*Probe length*

## 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.


VEGA Grieshaber KG, Am Hohenstein 113, 77761 Schiltach/Germany, www.vega.com