

## EL 4

### Conductive multiple rod electrode



#### Application area

The multiple rod electrode EL 4 is a universal level switch for conductive liquids. The instrument is ideal as overflow and dry run protection in conjunction with VEGATOR 131 and VEGATOR 132 controller.

#### Your benefit

- Reliable pump control through multiple rod probe
- High flexibility in use through shortenable rod probes
- Reduced stockkeeping through exchangeable rod probes

#### Function

The instruments are used for level detection in conductive liquids. A VEGATOR 131 or 132 controller 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 controller. The switching point is determined via the mounting position or the length of the respective probe.

#### Technical data

Probe length	up to 4 m (13.12 ft)
Conductance of the medium	min. 7.5 $\mu$ S/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 controller

#### Materials

The wetted parts of the instrument are made of PP. The rods 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](http://www.vega.com/configurator).

#### Housing versions

The housing is made of plastic (PP).

It is available with protection rating up to IP66/IP67.

#### Electronics versions

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

#### Approvals

Worldwide approvals are available for VEGA instruments, e.g. for use in hazardous areas, on ships or in hygienic applications.

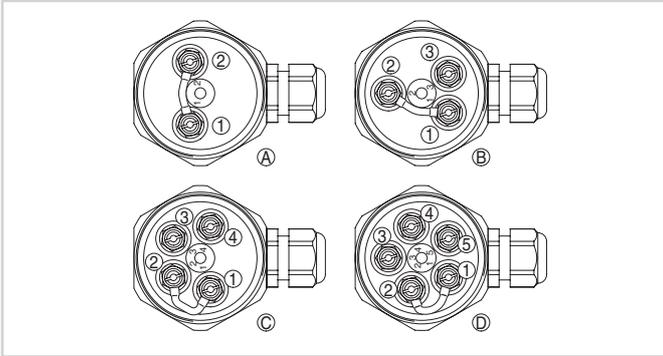
For approved devices (e.g. with Ex approval) the technical data in the respective safety instructions are applicable.

You can find detailed information in the available approvals on our homepage under "Downloads".

### Adjustment

You can find the setup procedure for EL 4 in the operating instructions manual of the corresponding controller.

### Electrical connection

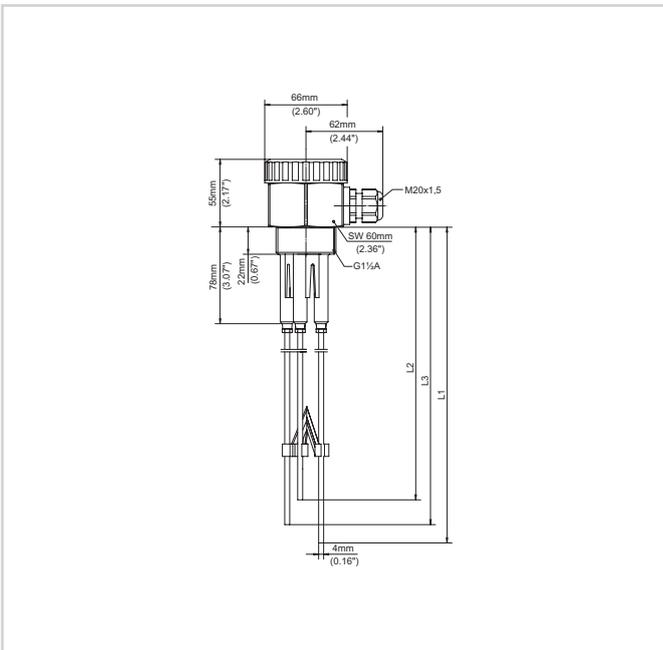


Connection compartment of the probe - 220 k $\Omega$  resistance between terminals 1 and 2

- 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](http://www.vega.com/downloads).

### Dimensions



Conductive probe EL 4

L1-3 Probe length

### Information

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

In the download section of our homepage you'll find operating instructions, product information, industry brochures and approval documents as well as device and adjustment software.

### Instrument selection

On our homepage under "Products" you can select the suitable measuring principle and instrument for your application.

There you will also find detailed information on the available device versions.

### Contact

You can find your personal contact person at VEGA on our homepage under "Contact".