

## 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 $\mu$ 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 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](http://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.



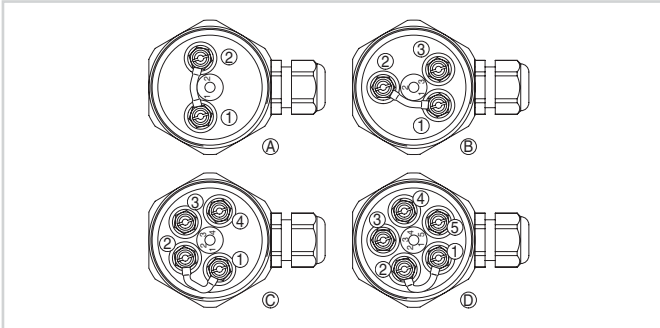
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DERRICK  
INTERNATIONAL**

Thorne & Derrick  
+44 (0) 191 490 1547  
[www.heatingandprocess.com](http://www.heatingandprocess.com)

## Operation

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

## Electrical connection

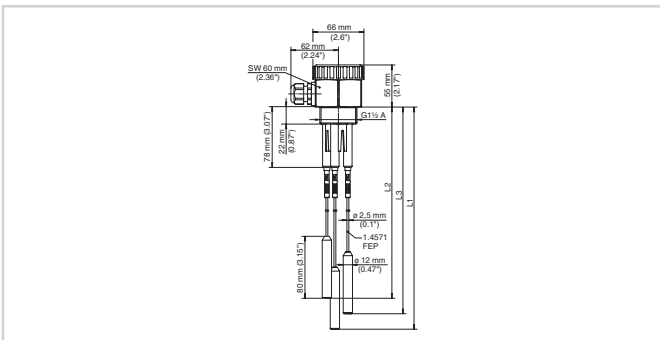


Connection compartment of the probe - 220 k $\Omega$  resistance between terminals 1 and 2

- 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 6

L1-3 Probe length

## Information

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

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" at [www.vega.com/finder](http://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](http://www.vega.com/configurator) and "VEGA Tools".

## Contact

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



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