

VEGAKON 66

Transistor (NPN/PNP)

Conductive multiple rod level switch for liquids



Application area

The VEGAKON 66 is a conductive point level switch for conductive liquids. The instrument can be used as full or empty alarm.

Your benefit

- Reliable pump control through multiple rod electrode
- High flexibility in use through shortenable rod electrodes
- Reduced stockkeeping through exchangeable rod electrodes

Function

The instruments operate according to the conductive measuring principle and are used in conductive liquids. When immersed, the probe detects the product resistance. A low alternating current is detected by the integrated electronics and converted into an appropriate switching signal. The switching point is determined via the mounting position or the length of the respective probes.

Technical data

Conductance of the medium	min. 5 μ S/cm with 30 mm electrode covering
Probe length	up to 4 m (13.12 ft)
Process fittings	Thread G1½
Process pressure	-1 ... +6 bar/-100 ... +600 kPa (-14.5 ... +87 psig)
Process temperature	-40 ... +100 °C (-40 ... +212 °F)
Ambient, storage and transport temperature	-40 ... +80 °C (-40 ... +176 °F)
Voltage supply	10 ... 55 V DC
Load current	< 400 mA
Voltage loss	< 1 V
Switching voltage	< 55 V DC
Blocking current	< 10 μ A

Materials

The wetted parts of the instrument are made of plastic PP. 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

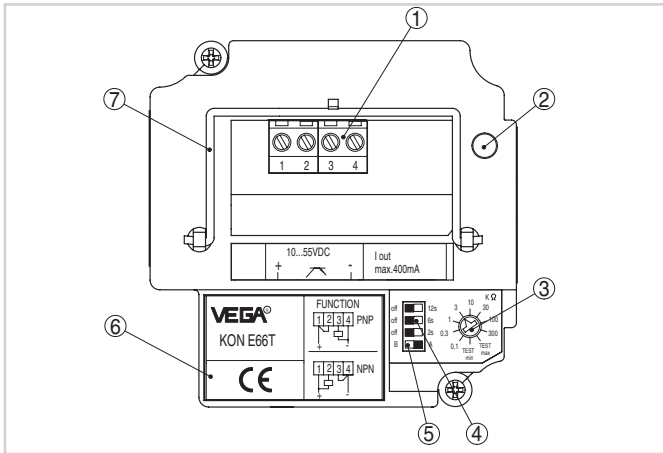
The housings are available in plastic or Aluminium. The plastic housing has protection rating up to IP 66, the Aluminium housing protection rating IP 66/IP 67.

Electronics versions

The instruments are available in two different electronics versions. Apart from the electronics with relay output (DPDT), a version with transistor output (PNP) is also available.

Operation

You can adjust the mode and the integration time of the level switch on the electronics module and adapt the sensor to the conductive value of the medium. The control lamp indicates the switching condition of the instrument.

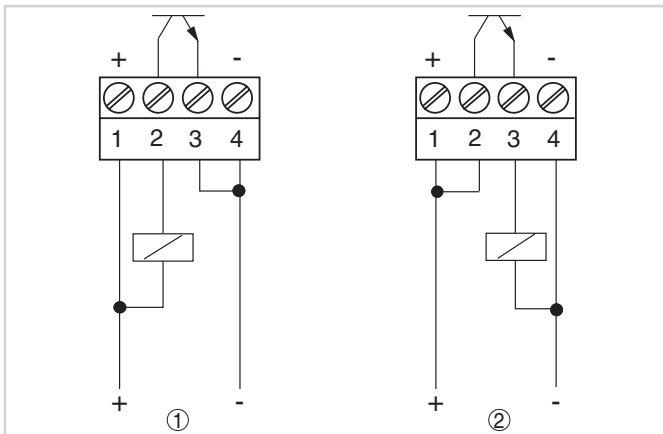


- 1 Connection terminals
- 2 Control lamp (LED)
- 3 Rotary switch: Adjustment of the conductivity value
- 4 DIL switch: Integration time
- 5 Mode switch (A/B)
- 6 Type label
- 7 Tensile proving ring

Electrical connection

The transistor switches the operating voltage of the electronics module to the binary input of a PLC or an electrical load.

Through different connections of the consumer (load), PNP or NPN action can be attained.

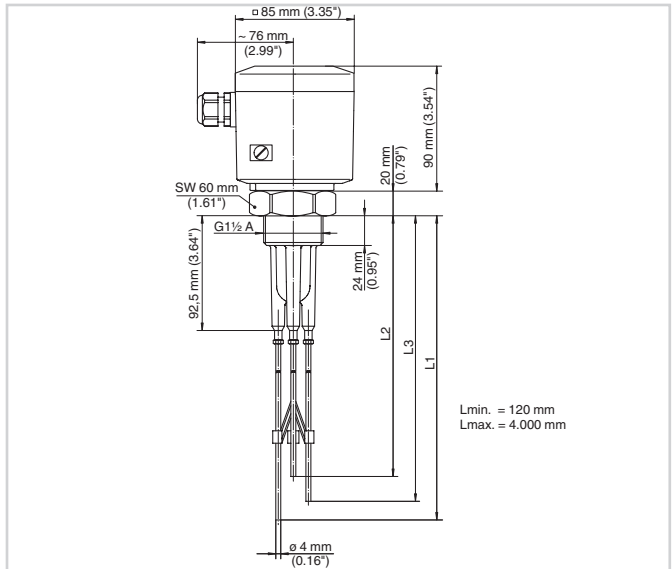


Electronics with transistor output

- 1 NPN action
- 2 PNP action

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

Dimensions



VEGAKON 66 with three probes

- L1 Length ground probe
- L2 Length max. probe
- L3 Length min. probe

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.