

VEGAKON 61

Transistor (NPN/PNP)

Conductive point level switch for liquids (front-flush installation)



Technical data

Conductance of the medium	min. 7.5 μ S/cm
Process fittings	Thread G1; 1 NPT; conus DN 25
Process pressure	-1 ... +25 bar/-100 ... +2500 kPa (-14.5 ... +362 psig)
Process temperature	-40 ... +150 °C (-40 ... +302 °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

Application area

The VEGAKON 61 is a conductive point level switch for conductive liquids. The instrument is suitable as full or empty alarm in pipelines.

Your benefit

- Time and cost-saving setup without adjustment with medium
- Optimum cleaning through front-flush installation
- Maintenance-free operation as probe is non-sensitive to buildup

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.

Materials

The wetted parts of the instrument are made of stainless steel. The isolating ring of the probe is made of PTFE. 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

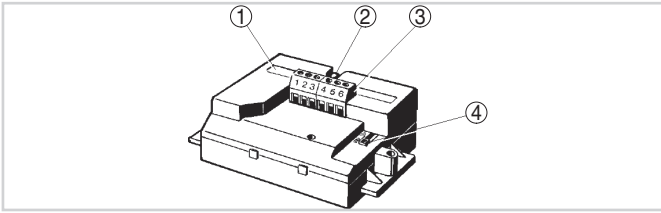
The housing is made of plastic and has protection rating IP 66.

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

The mode of the level switch can be set on the electronics module. A signal lamp shows the switching status of the instrument.

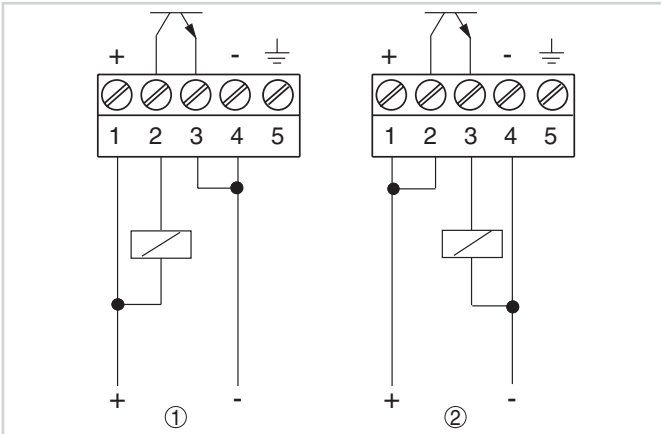


- 1 Type label
- 2 Control lamp (LED)
- 3 Connection terminals
- 4 Mode switch (A/B)

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.

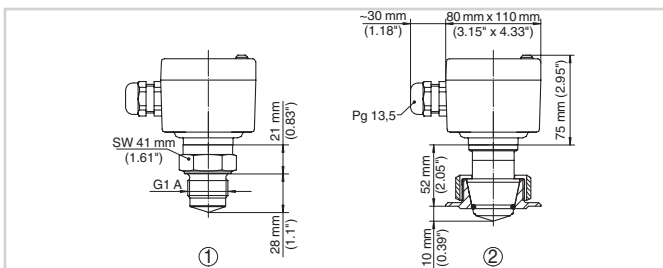


Electronics with transistor output

- 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



- 1 Threaded version
- 2 Cone version

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.