Specification sheet

VEGAWAVE 63

Contactless electronic switch

Vibrating level switch with tube extension for powders

Application area

The VEGAWAVE 63 is a level switch for universal use in powders and fine-grained bulk solids. The VEGAWAVE 63 detects reliably and robust the min. or max. level. The tuning fork is ideal for use either in adhesive and abrasive products as well as in bulk solids with very low density. The position of the switching point is determined via the tube extension.

Your benefit

- Minimum time and cost expenditure thanks to simple setup without medium
- Reliable function due to product-independent switching point
- Low maintenance costs thanks to robust design

Function

With the VEGAWAVE 63 series, the tuning fork is used as sensor element. If the medium covers the tuning fork, the amplitude is damped. The electronics detects this damping and converts it into a switching command.

Technical data

Process pressure	-1 … +25 bar/-100 … +2500 kPa (-14.5 … +363 psig)
Process temperature	-50 … +250 °C (-58 … +482 °F)
Density	> 0.008 g/cm³ (0.0003 lbs/in³)
Ambient temperature on the housing	-40 … +80 °C (-40 … +176 °F)
Storage and transport temperature	-40 … +80 °C (-40 … +176 °F)
Hysteresis	approx. 2 mm (0.08 in) with vertical installation
Process fitting	Thread from G1½, 1½ NPT, flanges from DN 50, 2"
Operating voltage	20 … 253 V AC, 50/60 Hz, 20 … 253 V DC
Load current	min. 10 mA/max. 400 mA
Switching delay	When being covered: 0.5 s, when being uncovered 1 s
SIL qualification	Optionally up to SIL2

Materials

The wetted parts of the instrument are made of stainless steel 316L. The supplied process seal is made of Klingersil C-4400.
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, stainless steel or Aluminium. They are available with protection ratings up to IP 67.

Electronics versions

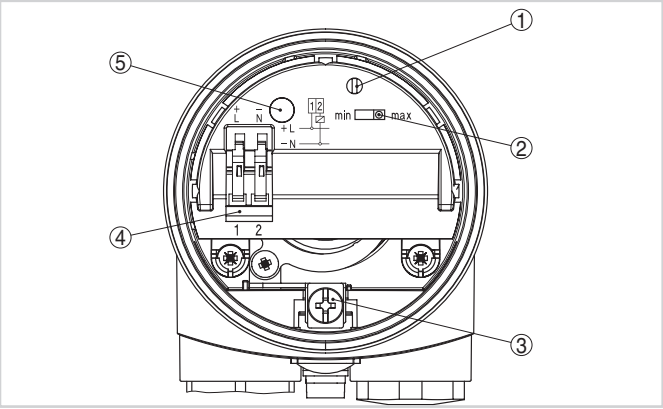
The instruments are available in different electronics versions. Apart from the versions with transistor output, contactless electronic switch and relay output, a two-wire version for connection to a signal conditioning instrument and a NAMUR version are also available.

Approvals

The instruments are suitable for use in hazardous areas and are approved, for example, according to ATEX, FM, CSA and IEC.
You can find detailed information on the existing approvals in the "*configurator*" on our homepage at www.vega.com/configurator.

Operation

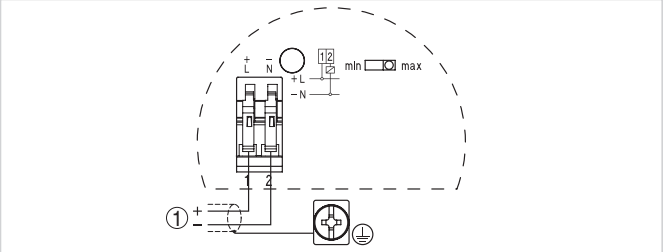
The mode and sensitivity of the level switch can be adjusted on the electronics module. A signal lamp shows the switching status of the instrument.



Electronics and connection compartment - contactless electronic switch

1 *Potentiometer for switching point adaptation*
2 *DIL switch for mode adjustment*
3 *Ground terminal*
4 *Connection terminals*
5 *Control lamp*

Electrical connection

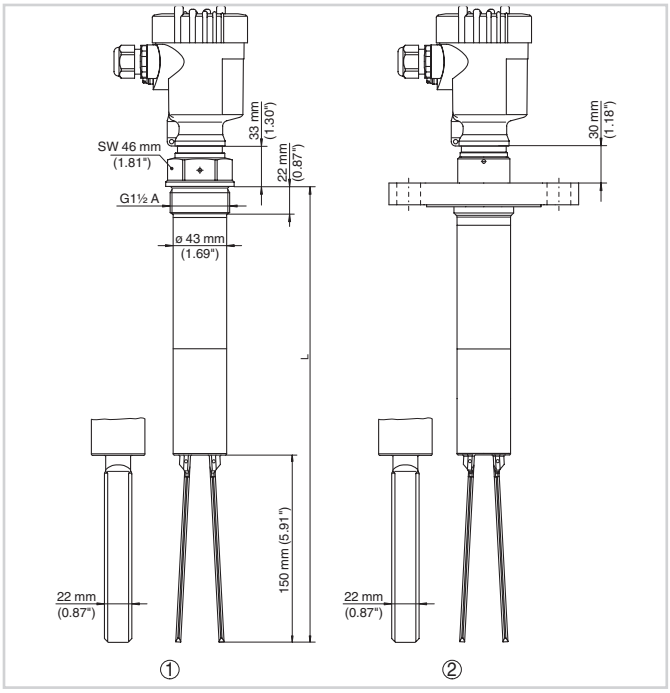


Wiring plan

1 *Voltage supply*

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

Dimensions



1 *Threaded version G1½*
2 *Flange 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.

For more VEGA product please visit: www.ainstru.com
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