Specification sheet

VEGASWING 61

Contactless electronic switch Vibrating level switch for liquids





The VEGASWING 61 is used as a universal vibrating level switch for all liquids. Independent of the mounting position, it detects reliably with millimetre accuracy the limit level. The instrument can be used as empty or full detector, as approved overfill protection, dry run protection or pump protection in vessels and pipelines. The VEGASWING 61 offers maximum reliability and safety in a wide application range.

Your benefit

- Minimum time and cost expenditure due to simple setup without medium
- Precise and reliable function due to product-independent switching point
- Low maintenance costs

Function

The heart of the sensor is the vibration drive by which the tuning fork is energized to vibrate at its resonance frequency. When covered with medium, the frequency of the fork decreases. This frequency change is processed by the integrated electronics and converted into a switching command. With the tuning fork with only 38 mm length, the VEGAS-WING work reliably independent of the installation position in any liquid. Pressure, temperature, foam, viscosity and the composition of the liquid do not influence the switching accuracy.



Technical data

Process pressure -1 ... +64 bar/-100 ... +6400 kPa

(-14.5 ... +928 psig)The function of the instrument is ensured up to an operating pressure of 100 bar/10000 kPa (1450 psig) at a maximum process

temperature of +50 °C (+122 °F) (only with

threaded versions).

Process temperature -50 ... +250 °C (-58 ... +482 °F)

Viscosity - dynamic 0.1 ... 10000 mPa s

Density 0.7 ... 2.5 g/cm³ (0.025 ... 0.09 lbs/in³);

0.47 ... 2.5 g/cm³ (0.0163 ... 0.09 lbs/in³)

by switching over

Ambient temperature -40 ... +70 °C (-40 ... +158 °F)

Hysteresis approx. 2 mm (0.08 in) with vertical instal-

lation

Process fitting Threads from G¾, ¾ NPT, flanges from

DN 25, 1", hygienic fittings

Operating voltage 20 ... 253 V AC, 50/60 Hz, 20 ... 253 V DC

Load current min. 10 mA/max. 400 mA

Switching delay 500 ms (on/off)
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

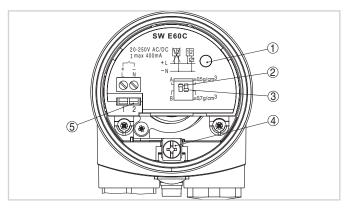
The instruments are suitable for use in hazardous areas and are approved, e.g. according to ATEX, FM, CSA and IEC. The instruments also have different ship approvals such as e.g. GL, LRS or ABS and are approved as overfill protection according to WHG.

You can find detailed information on the existing approvals in the "configurator" on our homepage at www.vega.com/configurator.



Operation

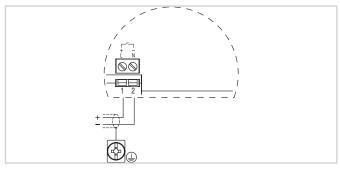
The mode and sensitivity of the level switch can be adjusted on the electronics module. A signal lamp shows the switching status of the instrument.



Electronics and terminal compartment, single chamber housing

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

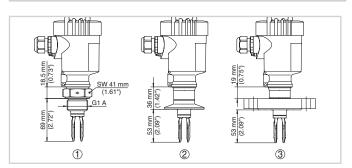
Electrical connection



Wiring plan

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

Dimensions



VEGASWING 61

- 1 Threaded version
- 2 Clamp version
- 3 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.