

# VEGASWING 61

## Two-wire

### Vibrating level switch for liquids



#### Application area

VEGASWING 61 is used as a universal level switch in liquids. It detects reliably with millimetre accuracy when a certain level is reached. It can be used in vessels and pipelines in any installation position.

The instrument can be used as empty or full detector, as approved overfill protection, dry run protection or pump protection.

#### Advantages

- Setup without adjustment
- Product-independent switching point
- Very high reproducibility
- Wear and maintenance free

#### Function

Via the piezo drive, 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. To ensure a secure and reliable fastening of the piezo drive, an optimised screw connection is used.

#### Technical data

Process pressure	-1 ... +64 bar/-100 ... +6400 kPa (-14.5 ... +928 psig)
Process temperature	-50 ... +250 °C (-58 ... +482 °F)
Viscosity - dynamic	0.1 ... 10000 mPa s
Density	0.5 ... 2.5 g/cm <sup>3</sup> (0.018 ... 0.09 lbs/in <sup>3</sup> )
Ambient temperature on the housing	-40 ... +70 °C (-40 ... +158 °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 G <sup>3/4</sup> A, flange from DN 25
Operating voltage	10 ... 36 V DC (via the signal conditioning instrument)

#### Output signal

– empty (uncovered)	8 mA
– full (covered)	16 mA
– Failure message	< 2 mA

#### Materials

The wetted parts of the instrument are made of stainless steel 316L. The supplied process seal is made of Klingsil C-4400.

You will find a complete overview of the available materials and seals in the "configurator" on our homepage under [www.vega.com/configurator](http://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.

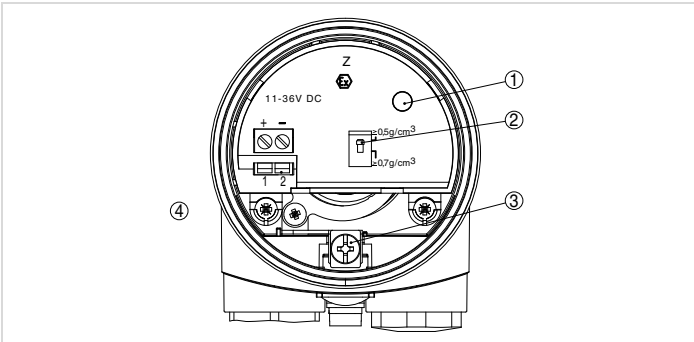
#### Approvals

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 under [www.vega.com/configurator](http://www.vega.com/configurator).

## Operation

The sensitivity of the level switch can be adjusted on the electronics module. A control lamp shows the switching condition of the instrument. The mode can be adjusted on the connected signal conditioning instrument.



Electronics and connection compartment with single chamber housing

- 1 Control lamp
- 2 DIL switch for sensitivity adjustment
- 3 Ground terminal
- 4 Connection terminals

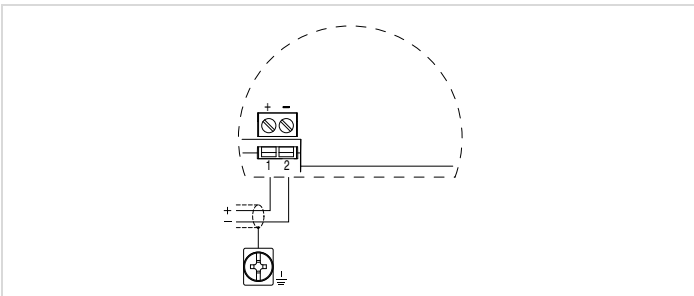
## Device selection

With the "finder" you can select the suitable measuring principle for your application: [www.vega.com/finder](http://www.vega.com/finder). You can find detailed information on the instrument versions in the "configurator" on our homepage under [www.vega.com/configurator](http://www.vega.com/configurator).

## Contact

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

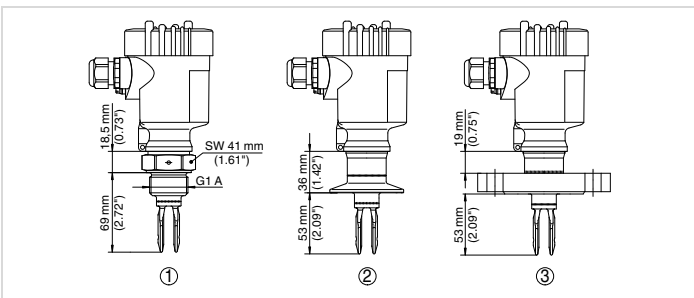
## Electrical connection



Wiring plan

You can find details on the electrical connection in the operating instructions of the instruments on our homepage under [www.vega.com/downloads](http://www.vega.com/downloads).

## Dimensions



VEGASWING 61

- 1 Threaded version
- 2 Tri-Clamp version
- 3 Flange version

## Information

You will find supplementary information on our VEGA product program 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.