

# VEGASWING S 51

## Vibrating level switch for liquids

### Application area

The VEGASWING S 51 is a universal liquid level switch with smallest dimensions. Independent of the mounting position it detects reliably and with millimetre precision the limit level. The instrument can be used as full or empty detector, as approved overfill, dry run or pump protection in vessels or pipelines.

The VEGASWING S 51 is an economical solution with maximum reliability and safety.

### Your benefit

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

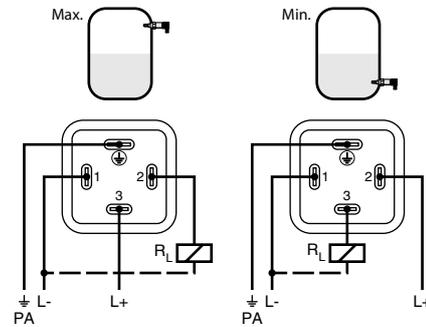
### Function

The rugged stainless steel tuning fork is piezoelectrically energised and vibrates at its resonance frequency. The vibrating frequency changes if the tuning fork is covered by the liquid. The change is reliably detected by the integrated electronics module and converted into a switching signal. The switching condition is visible from outside via a two-colour LED. No special adjustments are required to set up VEGASWING S 51.



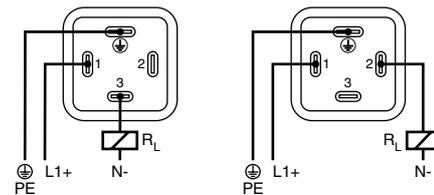
### Electrical connection

View to the connection (instrument side)



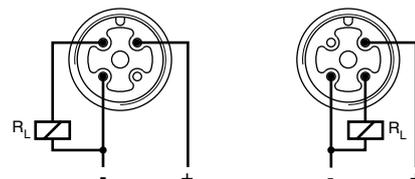
Version:

Electronics "T" (transistor) and  
Electrical connection / Protection "V"



Version:

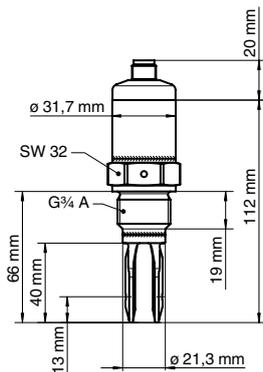
Electronics "C" (contactless electronic switch) and  
Electrical connection / Protection "V"



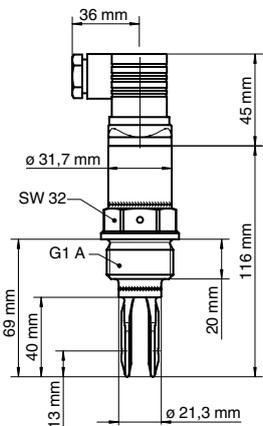
Version:

Electronics "T" (transistor) and  
Electrical connection / Protection "M"

## Dimensions



Version:  
Electrical connection / Protection "M"



Version:  
Electrical connection / Protection "V"

## Technical data

Process pressure	-1 ... 64 bar
Process temperature	-40 ... +100 °C / -40 ... +150 °C
Density	≥ 0.7 g/cm <sup>3</sup>
Viscosity	0.1 ... 10000 mPa s
Material, wetted-parts	316L
Material, housing	316L, plastic PEI
Switching delay	on: 0.5 s / off: 0.5 s
Approval	overflow protection according to WHG

### Electronics transistor PNP (plug M12 x 1. plug DIN 43650)

Load current	max. 250 mA
Turn-on voltage	max. 55 V DC
Operating voltage	10 ... 55 V DC
Power consumption	max. 0.5 W

### Electronics contactless electronic switch (plug DIN 43650)

Operating voltage	20 ... 253 V AC, 50/60 Hz, 20 ... 253 V DC
Domestic current requirement	approx. 3 mA (via the load circuit)
Load current	min. 10 mA, max. 250 mA

Net price per piece in GBP

### Process fitting / Process temperature

- 1 Thread G $\frac{3}{4}$  PN 64 / -40 ... +100 °C
- 2 Thread G1 PN 64 / -40 ... +100 °C
- 5 Thread G $\frac{3}{4}$  PN 64 / -40 ... +150 °C
- 6 Thread G1 PN 64 / -40 ... +150 °C

### Electronics

- C Contactless electronic switch 20 ... 253 V AC/DC
- T Transistor PNP 10 ... 55 V DC

### Electrical connection / Protection

- M M12 x 1 / IP 66/IP 67 <sup>1)</sup>
- V according to DIN 43650 incl. plug / IP 65

SWINGS51.EEA

<sup>1)</sup> Only in conjunction with electronics "T"

	Order number
<b>Accessory</b>	
Welded socket G $\frac{3}{4}$	ESTSG.1GBX1
Welded socket G1	ESTSG.1GAX1
M12 connection cable 4-pole length 5 m	ASL.2GA
Test magnet	2.28079