VEGASWING 60: Short and Sweet!

VEGASWING 60 series



The ideal solution for liquids

VEGASWING 60 enables level detection by a tuning fork with a length of only 40 mm. The level switch functions reliably in all liquids and in every installation orientation. More stable, more flexible, more rugged!

It does not matter to VEGASWING, if you always detect the same liquid in your vessel or if the products constantly vary. Pressure, temperature, foam, bubbles and even viscosity do not influence the switching reliability. The versatility of VEGASWING 60 means that you need only one level switch for virtually every application ... thus saving costs.

250°C? No problem.

The first vibrating level switch designed for operating temperatures from -50°C up to +250°C

Good vibrations

The piezo element is the heart of VEGASWING and the tuning fork vibrates at its resonance frequency. When in contact with the medium, the frequency of the fork is damped and the switching command is triggered. The piezos are fastened mechanically, to ensure an effective and rugged piezo drive. Advantage: VEGASWING is independent of high temperature and pressure shocks.

Are there any other vibrating level switches offering a temperature range of up to +250°C?

Highly corrosion resistant materials are responsible for the reliability and stability of VEGASWING. There is a choice of 1.4435 (316L st/ st), Hastelloy C4, ECTFE coating or enamel.

Various connection possibilities

VEGASWING 60 has much to offer. For intrinsically safe use in Ex-Zone 0, two electronics versions are available. Two-wire either switched current in conjunction with VEGATOR signal conditioning instrument or a NAMUR output.

As a result, VEGASWING can now be used more economically in larger plants.

In addition, the electronics can be mounted as double relay, transistor or non-contact switch in the pressuretight encapsulated housing (EEx d).



Tuning fork with piezo drive

VEGASWING 61 with ³ 4" thread		
Inst. length	66 mm	
Material	1.4435 (316L)	
Housing	plastic PBT	
Protection	IP66 and IP67	
Approvals	WHG	

VEGASW with flange
Inst. length
Material
Housing

Protection

Approvals







Pump protection in the pipeline

With installation dimensions of only 66 mm (from the seal surface), even pipe work with a nominal diameter of DN 25 is no problem for VEGASWING.

Expensive pumps are protected effectively against dry running.



NG 63 N 25, EEx d	
150 3000 mm	۱
Hastelloy C4	
Aluminium	
IP66 and IP67	
EEx d, WHG	

VEGASWING 61 enamelled, EEx ia		
Inst. length	53 (max 1200) mm	
Material	Hastelloy/Enamel	
Housing	plastic PBT	
Protection	IP66 and IP67	
Approvals	EEx ia, WHG	

VEGASWING 63 ECTFE coated		
Inst. length	150 3000 mm	
Material	1.4435 / ECTFE	
Housing	plastic PBT	
Protection	IP66 and IP67	
Approvals	EEx ia, WHG	

VEGASWING 61 with Tri-Clamp 1"	
Inst. length	53 mm
Material	1.4435 polished
Housing	plastic PBT
Protection	IP66 and IP67
Approvals	ЗA







Ideal for the chemical industry

With direct NAMUR output to Remote I/O or VEGA signal conditioning instrument, VEGASWING protects reliably against overfilling and dry running of the system with operating temperatures up to 250°C. VEGASWING is either intrinsically safe (EEx ia) or equipped with pressuretight encapsulated (EEx d) housing to suit all your Ex requirements.



WHG test by key pressing

Pressing the test key on VEGATOR is sufficient to carry out the periodic switch verification test according to WHG. VEGASWING is carefully checked (AK3 according to DIN V 19251) and the associated system components are activated. This is permitted in the general type approval certificate (WHG).



Ketchup or yoghurt – no problem VEGASWING does a reliable job even in viscous products. Viscosity up to 10000 mPa·s and a density up to 2.5 g/cm³ are no problem. The tuning fork can be highly polished up to a surface finish of $R_8 \le 0.5 \ \mu m$ and certified according to 3A. The material 1.4435 (316L) is well proven in the food processing industry.



Short fits!

- tuning fork length of only 40 mm
- thread from ³/₄" and flange from DN 25 (1" ANSI)
- operating temperature up to 250°C, pressure rating PN 64
- temperature shock: 200 K/s standard temperature shock: 300 K/s on high temperature version
- also with NAMUR output

Short passed!

- certified for WHG periodic verification by key pressing only
- Ex-Zone 0 to ATEX 100a II (EEx ia IIC T6 or EEx d IIC T6)
- Overfill certification AK3 to DIN V 19251

Short delivery

• Delivery in 5 days maximum

Short is online!

www.vegaswing.com





VEGASWING 61 with fixed length VEGASWING 63 with tube extension up to 4 m

Housing

Plastic (PBT), protection IP66 / IP67 Aluminium plastic coated, protection IP66 / IP67

Electronics

Non-contact switch (20 ... 250V AC/DC) Floating relay output DPDT max. 5A (20 ... 72V DC / 20 ... 250V AC) Floating transistor output NPN / PNP (10 ... 55V DC) Two-wire current output 8 mA / 16 mA (connection to VEGATOR signal cond. instrument) Two-wire current output according to NAMUR according to IEC 60947-5-6

Process connections

Thread G3/4A, 3/4" NPT, G1A and 1" NPT Flanges from DN 25 or ANSI 1" Hygienic fittings

Materials

Stainless steel 1.4435 (316L) also polished up to $R_a \le 0.5 \ \mu m$ Hastelloy C4 (2.4610) ECTFE coated Enamelled

Application conditions

Operating temperature:	-
	-
Temperature shock:	ι
Operating pressure:	-
Viscosity:	(
Liquid density:	(

Approvals

EX-Zone 0 according to ATEX II 1G or 1/2G EEx ia IIC T6 ATEX 1/2G EEx d IIC T6 Overfill protection according to WHG (periodic test by key pressing) Fault monitoring according to class AK 3 (DIN V 19251)

VEGA - Your worldwide sales and service partner

Argentina	France	Lithuania	Slovenia	
Austria	Germany	Malaysia	South Africa	
Australia	Great Britain	New Zealand	Spain	
Belgium / Luxembourg	Greece	Norway	Taiwan (ROC)	
Brazil	Hungary	Peru	Thailand	
Bulgaria	India	Poland	Czech Republic	
Chile	Indonesia	Portugal	Netherlands	
China (PRC)	Iran	Romania	Philippines	
Colombia	Israel	Russia	Turkey	
Croatia	Italy	Sweden	Ukraina	
Denmark	Japan	Switzerland	USA / Canada / Mexico	
Egypt	Korea	Singapore	United Arab Emirates	
Finland	Kuwait	Slovakia	Venezuela	
Please refer to our homepage for more details www.vega.com				

2001

April

.24702



www.vegaswing.com

Level and **P**ressure

VEGA Grieshaber KG Am Hohenstein 113 77761 Schiltach, Germany Phone +49 (0)7836 50-0 +49 (0)7836 50-201 Fax E-mail info@de.vega.com www.vega.com







-50°C up to +150°C -50°C up to +250°C (with temperature adapter) up to 300 K/s -1 up to 64 bar 0.2 up to10000 mPa·s 0.5 up to 2.5 g/cm³





Level detection in liquids

VEGASWING 60

