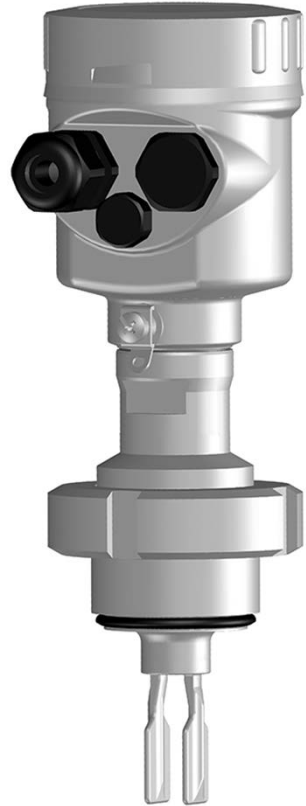


Hygienic Instruction

EHEDG, Installation and Cleaning Instructions

VEGASWING SG51, SWING61, SWING63

Hygienic process fittings



Document ID: 35487



VEGA

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1 About this document

1.1 Function

This instructions manual provides the most important information for the application of level switches VEGASWING.

1.2 Scope

These instructions apply to limit switches VEGASWING with hygienic process fittings and seals. You can find the fittings and seals in the manufacturer declaration of this document.

2 EHEDG-Standards - Meaning and implementation

Meaning of EHEDG

EHEDG provides practical guidance on the hygienic engineering aspects of manufacturing safe and wholesome food. Founded in 1989, it is consortium of equipment manufacturers, food companies, research and educational institutes as well as public health authorities whose common aim is to promote hygiene during the processing and packaging of food products.

EHEDG actively supports European legislation, which requires that handling, preparation, processing and packaging of food is done hygienically using hygienic machinery and in hygienic premises (EC directive 98/37/EC, EN 1672-2 and EN ISO 41159).

The principal goal of EHEDG is the promotion of safe food by improving hygienic engineering and design in all aspects of food manufacture. EHEDG may authorize the use of the certification logo on equipment or products complying with the relevant EHEDG criteria (Doc. 8). If necessary, cleanability testing according to EHEDG methodes (Doc. 2) may be required [Ref. 1].

The following versions are covered by Certificate No. ACTA-LIA-2/2017.

Use of instruments according to EHEDG

The use of instruments and components with the EHEDG-Logo provides proof that the configuration was tested. The certificate always refers to a combination of sensor and process fitting. Both components of this combination must conform with EHEDG. It looks like the following:

The requirements for installations according to EHEDG are much higher than those for standard applications. This applies especially to:

- Configuration of the process fitting
- Seals (e.g. FDA and EG 1935/2004 conformity, resistiveness)
- Installation position on the vessel (e.g. self-drainage)
- Cleaning, maintenance (intervals, methods)

3 Instrument versions

Housing

For use according to EHEDG standard, for the VEGASWING SWING 61, 63 the housing is preferably of stainless steel, electropolished and executed with protection rating IP 69K/NEMA, should be used. On these instruments, e.g., the transition to the process fitting is shortened for better cleanability.

This housing version is suitable for measurement loops with increased hygienic requirements and applications where a daily wet cleaning is required. As orientation, the definition of the zone division acc. to EHEDG is valid.

If "EHEDG" is selected in the configurator, the housing will be marked with a "EHEDG" Logo.

Process fittings

Only process fittings listed in chapter "*Manufacturer declaration*" may be used for installations according to EHEDG standards.

They meet the hygienic requirements of EHEDG standards Doc. 2 and 8.

4 Mounting

Note the following items for a measuring point according to EHEDG standard:

- All parts of the measuring point must be certified according to EHEDG

Installation position

The following illustration shows for allowed mounting positions for hygienic processes in flow direction.



2 Flow direction

Socket

If possible, the front-flush installation position should be preferred. If this is not possible, a longer or more difficult cleaning has to be expected.

Such difficult-to-clean spots must be taken into account by the operator for cleaning validation.

In cases where mounting in pipe sockets cannot be avoided, short sockets should be used.

The height of the socket (h) can be at most twice as large as the difference between the sensor and the pipe inner diameter.

The following formula is applicable: $h = (D - d) * 2$

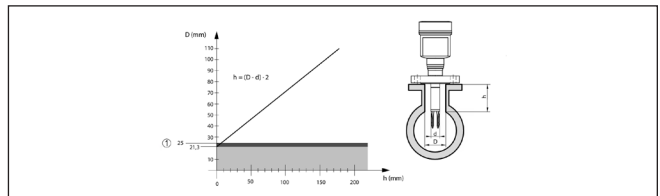


Fig. 2: Socket table

h Permissible socket height (sealing surface to tube inner diameter)

D Socket inner diameter

d Sensor diameter: 21.3 mm (0.84 in)

1 Technical lower limit of the socket inner diameter: DN 25, 1"

Housing

For hygienical reasons, the following single chamber housings are recommended.

- Aluminium single chamber housing
- Stainless steel single chamber housing - precision casting
- Plastic single chamber housing

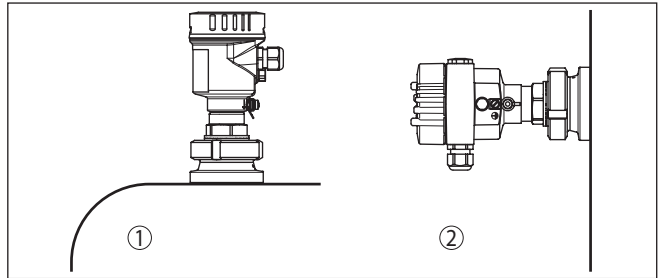


Fig. 3: Housing

- 1 Vertical mounting only with stainless steel housing, electropolished
- 2 Lateral mounting also with other single chamber housings possible (e.g. aluminium single chamber housing)

If the sensor should be mounted vertically, is recommended the stainless steel housing, electropolished.

5 Maintenance, cleaning

Maintenance

It is the responsibility of the user to ensure the hygienically safe condition of the sensor during its entire service life.

This includes selecting the seal material according to process specific requirements. A leaky seal represents a hygienic risk. To avoid this, the seals should be replaced with new ones at regular intervals and the sensor checked for damage. The accessible surface must be cleaned carefully when the seal is exchanged.

The user plans the intervals according to the process conditions and seal materials.

Cleaning

The sensor should be kept clean by using validated, state-of-the-art cleaning processes. Success should be checked by dismounting the sensor. The user is responsible for ensuring that the seal material as well as the sensor itself are resistant to the medium and the cleaning process. Resistance lists as well as the technical data of the respective sensor can serve as a basis for selection.

6 Manufacturer declaration

We hereby declare that the instrument and process fitting combinations of the following versions of VEGASWING meet the requirements of EHEDG Doc. 2 and 8:

VEGASWING SG51(*) .H[ab]*****

[ab]: 3-digit alphanumeric code to define allowed Process Connections.

Clamp (ISO2852)

[ab] = [CL, CM, CN]

DIN 11851 (only in combination with upgrade acc. to EHEDG - Position Paper)

[ab] = [RL, RM, RN]

Hygienic Fitting with compression nut:

[ab] = [LA]

VEGASWING SWING61(*) . SWING63(*) .[abc]****(*)**

[abc]: 3-digit alphanumeric code to define allowed Process Connections.

Clamp (ISO2852)

[abc] = [CCN, CCA, CCB, CCP, CC1, CBN, CBB, CBA, CBP, CB1, CG1, CAN, CAA, CAB, CA2, CAP, CA1, CFP, CDN, CDP, CEN, CE1, CEP]

DIN 11864-1:

[abc] = [RPA, RPP, RCA, RFP, RGP, RCI, RDI, RDA, RDP, RAC, RBC]

DIN 11864-2:

[abc] = [SLP, SLN, STN, STP, RSP, STO, SGE, SK6, SKA, SK2, S7P, RWP, SHP, SK5, SD1, LFP, SK1, LFP, SK3, SK4, SJP]

DIN 11864-3:

[abc] = [SGD, LVP, LDP, LEP, LHP, LFP]

Varivent:

[abc] = [TAN, TAA, TAY, TAP, TNP]

Bioconnect:

[abc] = [DBI, SBA, SEI, SFP]

Hygienic Fitting with compression nut:

[abc] = [LAN, LAP]

Note: Further process connections from the Position Paper: "Easy Cleanable Pipe Couplings and Process Connections" are optional.

7 Certificate

CERTIFICATE OF COMPLIANCE

Valid until end : December, 2018



TYPE EL
CLASS I

ACTALIA
hereby declares that the product

Level sensor VEGASWING Series SWING61, SWING63 & SG51 with EHEDG approved process connections

from

VEGA Grieshaber KG 77761 Schiltach, Deutschland

has been evaluated for compliance with
the Hygienic Equipment Design Criteria of the EHEDG, by:

ACTALIA at Villers bocage France
and meets the criteria as demonstrated by:

Evaluation Report No. 002ACT2017

Signed _____

Dr Nicolas Rossi

Evaluation Officer

Signed _____

M. Bernard Picoche

Head of Department

Certificate No. **ACTALIA -2/2017**

Date of issue : 12/12/2017



ACTALIA

ACTALIA, Villers bocage 14310- France
EHEDG

35487-EN-181217

Printing date:

VEGA

All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.

Subject to change without prior notice

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35487-EN-181217

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