Specification sheet

VEGASWING X S

NAMUR

Vibrating level switch for liquids

Application area

The VEGASWING X S is a universally applicable vibrating level switch for all pumpable liquids. Regardless of the mounting position, the device detects the point level reliably and safely. The device can be used for overfill protection or as dry-running or pump protection in vessels.

The VEGASWING X S offers maximum reliability and safety in accordance with IEC 61508 across a wide application range.

Benefit

- High operational reliability – reliable point level detection in accordance with SIL and WHG with state-of-the-art testing and diagnostic functions
- High plant availability – clear switching and status indication for safe and efficient process monitoring
- Easy operation – adjustment-free, function test at the touch of a button or via Bluetooth

Adjustment

Adjustment directly at the measuring point

- on the electronics module such as mode of operation and density adjustment
- on the optional display, adjustment and communication module XCOM

Wireless operation via Bluetooth (with XCOM)

- via smartphone/tablet - with the VEGA Tools app
- via tablet/PC - with PACTware + DTM (Device Type Manager)

Adjustment via remote systems

- HART Communicator
- manufacturer-specific programmes such as AMS™ or PDM

Technical data

Sensor length	
– Compact version	53 … 66 mm (2.09 … 2.6 in) depending on the process fitting
– Tube version	80 … 6000 mm (3.15 … 236 in)
– Suspension cable version	400 … 30000 mm (15.75 … 1181 in)
Process pressure	
– Compact or tube version	-1 … +100 bar (-100 … +10000 kPa/ -14.5 … +1450 psig)
– Suspension cable versions	-1 … +25 bar (-100 … +2500 kPa/ -14.5 … +382 psig)
Process temperature	
– Compact or tube version	-60 … +280 °C (-76 … +536 °F)
– Suspension cable version	-20 … +100 °C (-4 … +212 °F)
Viscosity - dynamic	0.1 … 10000 mPa s
Density	0.7 … 2.5 g/cm³ (0.025 … 0.09 lbs/in³); 0.4 … 2.5 g/cm³ (0.014 … 0.09 lbs/in³) by switching over
Ambient temperature	-40 … +80 °C (-40 … +176 °F)
Hysteresis	approx. 2 mm (0.08 in) with vertical mounting
Process fitting	Threads from G¾, R¾, ¾ NPT, flanges from DN 25, 1", hygienic fittings
Operating voltage	for connection to an amplifier according to NAMUR IEC 60947-5-6, approx. 8.2 V
Off-load voltage	U_0 approx. 8.2 V
Short-circuit current	I_U approx. 8.2 mA
Current consumption	
– Falling characteristics	≥ 2.2 mA uncovered/≤ 1 mA covered
– Rising characteristics	≤ 1 mA uncovered/≥ 2.2 mA covered
– Fault message	≤ 1 mA
SIL qualification	SIL2 single channel, SIL3 homogeneous redundant

Materials

- Stainless steel 316L, 1.4435 (BN2), Duplex (1.4462), Alloy C22 (2.4602), Alloy 400 (2.4360)
- Coatings: PFA, ECTFE, enamel

A complete overview of other available materials and seals can be found at www.vega.com

Housing versions

- Single chamber housing in plastic, stainless steel precision casting, stainless steel electropolished or aluminium
- Protection classes up to IP69

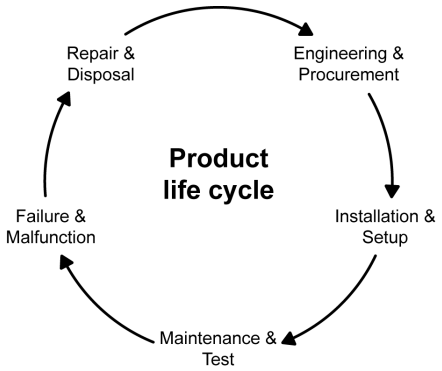
Approvals

- Explosion protection
- Ship approvals
- Hygienic approvals
- Functional safety (IEC 61508)
- Cybersecurity (IEC 62443-4-2)
- Additional approvals: Overfill protection, leckage detection, CRN, steam vessel

For approved devices (e.g. with Ex approval) the technical data in the respective safety instructions are applicable.

Specification sheet

VEGA services



myVEGA - your digital platform
Device management
Access to all VEGA devices including configurations, device master data, documentation, device backups and parameter adjustments

Online orders & Product catalog
Quick access to all VEGA devices, price and delivery time information, as well as direct integration into your ERP system

Individual device configuration
Creation, storage and management of individual device configurations – ideal for recurring applications or standardisation within the company

Project and plant overview
Clear structuring of projects and plants with assigned sensors, spare parts and status information

Your advantage: myVEGA bundles all important information and services in one platform – saving time, providing transparency and simplifying internal processes

VEGA Tools app - your smart partner
Free app for iOS and Android for wireless parameter adjustment, diagnostics, documentation and live transmission of VEGA instruments via Bluetooth – also ideal for measurement loops that are difficult to access

Your advantage: Maximum flexibility and time savings during setup, service, and maintenance – digital and intuitive

Personal advice – on site, by telephone or chat
Individual consultation by VEGA experts on selection, design and setup

Your advantage: The optimal solution right from the start – tailor-made, practice-orientated and economical

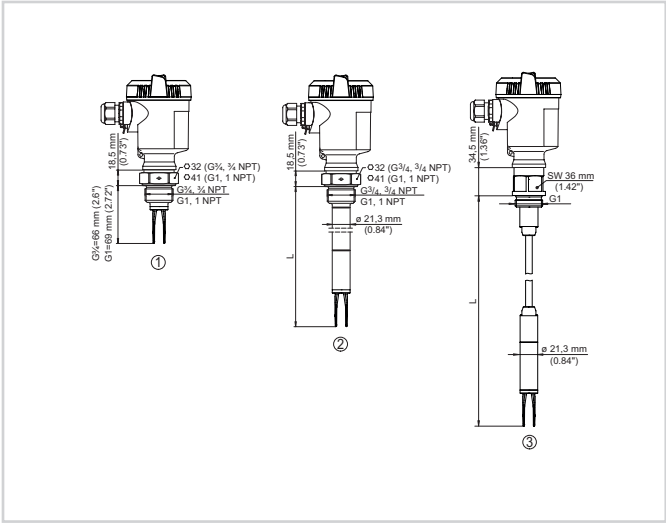
Free 24-hour hotline
Fast, free 24/7 support from experienced technicians for installation, maintenance and malfunctions – by telephone or digitally

Your advantage: Minimised downtime and maximum plant availability – help exactly when you need it

Repair & Disposal
Professional repair or replacement and environmentally friendly disposal of defective devices

Your advantage: Longer service life for your devices, lower costs and an active contribution to environmental protection

Dimensions



VEGASWING X S

1 *Compact version*
2 *Tube version*
3 *Suspension cable version*
L *Sensor length*