

Compact vibration level switch for liquids VibraFox® GVG





Minimum density of medium 0.7 kg/dm³

Technical specifications

Max. viscosity of medium 10,000 mm²/s

Operating temperature range Medium: -40 °C/+100 °C Ambient: -40 °C/ +70 °C

Process pressure
-1 to 64 bar

Process connection G³/₄B or G₁B (PN 64)

Vibration fork
Stainless steel 1.4435
Installation length 69 mm
or 117 mm

Supply voltage
AC/DC 20-253 V

Load current min. 10 mA max. 250 mA or DC 10-55 V Load current max. 250 mA

Power consumption

AC version: depending on external load

DC version: max. 0.6 W

Output
2-wire AC/DC or transistor (PNP)

Switching delay After immersion: 0.5 s After removal: 0.5 s

Switch point
Vertical installation: 13 mm
Horizontal installation: 14 mm
(in water at 25 °C)

Switching hysteresis
Vertical installation: 2 mm
Horizontal installation: 2 mm
(in water at 25 °C)

Visual indication Bi colour LED green/red

Operational testWith test magnet (included)

Housing Stainless steel 1.4435, cover PEI

Electrical connection
Plug DIN 43650-A (IP 65)
or M 12 x 1 (IP 67)

Technical Approval of the German Institute for Building Technology: Z-65.11-412

Options

- Extended operating temperature range -40 °C/+150 °C (medium)
- Other process connections
- Surface roughness Ra ≤ 0.8 μm
- Welding gland
- Other electrical connections
- Coupling relay (only for DC version)

Application

Suitable for detecting levels in liquids with a maximum viscosity of 10,000 mm²/s and a minimum density of 0.7 kg/dm².

Especially designed for applications in which float switches cannot be used due to liquid flow, turbulence or product adherance. Ideally suited as an overfill alarm or for dry-run protection of pumps. The WHG approved VibraFox® can be used as part of an approved overfill alarm system.

Description

The vibration fork of VibraFox® is excited to its resonance frequency. When the fork comes into contact with the medium a change in frequency occurs which is detected by the electronics and converted into a switching signal. The unique evaluation electronics enable the application of the system even under adverse conditions, e.g. in tanks with vibration or turbulent liquid surfaces.

VibraFox® vibration level switches feature:

- WHG approval
- Maintenance-free
- Compact design
- High resistance to chemicals
- Easy installation
- Various process connections
- Universal application

Compact vibration level switch for liquids VibraFox® GVG Dimensions (mm) and electrical connections

