Vibrating Limit Switch LVL

LVL-A2/A0



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CE

Features

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- · Vibration limit switch for liquids
- Compact housing and extended version
- · Polished version for the food industry
- ECTFE (Halar)-version for aggressive liquids
- Stainless steel housing for rough environmental conditions
- Function test with testing magnet in mounted position.

Function test with the testing magnet

• Put the testing magnet to the shown location. The state of the output will be the same as with a covered vibration fork.





Extended version LVL2□□□-PG



Please specify the length (L) if you order an extended version. The testing magnet has to be ordered separately (accessory). For a V1-connection - the necessary accessory is a V1 cable connection box (see accessories).

Function principle

The vibration fork is actuated piezoelectrically. It is vibrating with its resonance frequency in air. Liquids getting into contact with the fork are changing this frequency. This change is evaluated electronically and produces the switching signal.

Electrical connection





Plug connector V1



Terminal compartment connection



Subject to reasonable modifications due to technical advances.

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Technical data

Approvals/Certifications

Information about approvals and certifications can be found at www.pepperl-fuchs.com. Supply

Operating voltage Operating current Protection class Output

LVL00-000-A2-V1 LVL00-000-A0-V1 Current Short-circuit current Function test

Switching delay when covering when uncovering Indicators Supply Switching state **Environmental conditions** Ambient temperature **Process conditions** Temperature Pressure Density p Viscosity

max. 10 000 mPa s Protection class acc. to IEC 60529 IP67

Key to model numbers/ordering code

Vibracon LVL-A2/A0



Z.65-11.171 (Wasserhaushaltsgesetz WHG §19)

DC 18 V ... 30 V, protected from reverse polarity

< < 200 mA, short circuit-proof/overloadable</p>

Performed with test magnet (accessories) on

the device and without media contact.

mounted device. Sequential circuits can be proved

(like PLCs or control systems) without demounting

13376-98HH (Germanischer Lloyd)

< 40 mA

4-wire technology

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pnp

npn

< 1.5 A

approx. 0.5 s

approx. 0.5 s

LED, green

LED, yellow

< 40 bar \geq 0.6 g/cm³

-20 °C ... +70 °C

-40 °C ... +150 °C

Vibrating Limit Switch LVL-A2/A0

Conventional versions

Compact version LVL1

- LVL1S-G3S-A2-V1 • fork: stainless steel housing: plastic
- LVL10-G30S-A2-V1 • fork: polished stainless steel housing: stainless steel

Extended version LVL2

- LVL2S-G3S-A2-V1 . fork: stainless steel housing: plastic
- LVL2O-G3OS-A2-V1 fork: polished stainless steel housing: stainless steel
- 1" NPT-version
- all types are available with 1" NPT threadtype LVLDD-N3D-A2-V1

Flange version with Halar-coating

- LVL1H-F1H-A2-V1 compact version
- LVL2H-F1H-A2-V1 extended version

Accessories

- V1-G, cable connection box, straight
- V1-G-2M-PVC, cable connection box, straight, with 2 m cable
- V1-W, cable connection box, 90° angled
- V1-W-2M-PVC, cable connection box, 90° angled, with 2 m cable
- LVL-Z15, test magnet
- LVL2-Z41, sliding bushing G1¹/₂A, stainless steel 1.4571 (for unpressurised operation)
- LVL2-Z49, sliding bushing G11/2A, PVC (for unpressurised operation)
- LVL-Z61, welding bushing for vessels G1, Viton sealing





Sliding bushing G1½A LVL2-Z41, stainless steel

Sliding bushing G11/2A LVL2-Z49, PVC





Note

This device may be used with any ٠ sequential circuit, if this circuit complies with the connection values of the switching element.

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