

# Vibronic

## Point level detection

### Liquiphant FTL31

Point level switch for liquids in compact design with stainless steel housing



#### Benefits:

- Designed according to highest requirements to quality and environmental sustainability. The self-monitoring Liquiphant offers safe switching also in case of power supply loss.
- Independent of changing media properties an accurate switching point is offered. IO-Link reduces costs and complexity due to easy configuration of the devices via engineering tools
- A real plug & play sensor is offered without any need for adjustment even with changing media. Measurement is unaffected by conductivity, build-up, turbulence, flows or air bubbles
- No calibration is required, no specific know-how or tools (e.g. software) necessary
- Robust design made of stainless steel (316L) assures highest durability
- A modular design offers different process temperatures and the widest variety of process connections and accessories in the market to fit every application
- No mechanically moved parts, free of maintenance

#### Specs at a glance

- **Process temperature** -40 °C ... 150 °C (-40 °F ... 302 °F)
- **Process pressure absolute / max. overpressure limit** Vacuum ... 40 bar (Vacuum ... 580 psi)
- **Min. density of medium** >0,7g/cm<sup>3</sup> (>0,5g/cm<sup>3</sup> optional)

**Field of application:** Liquiphant FTL31 is a point level switch for liquids. The FTL31 is designed for industrial applications in all industries, mainly the machinery industry. The Liquiphant is used for overfill prevention or pump dry-run protection in cleaning systems. The IO-Link capability

allows easy parameter setting. **Compact:** - Smallest vibronic sensor in the market **Safe:** - Continuous self-monitoring -Reliable switching independent of media properties **Easy:** - No calibration - Plug & play - IO-Link connectivity

## Features and specifications

### Point Level / Liquids

#### Measuring principle

Vibration Liquids

#### Characteristic / Application

Level switch for liquids and is used in tanks, vessels and pipes.

#### Supply / Communication

20 ... 253V AC/DC, 2-wire

10 ... 30V DC-PNP 3-wire

#### Ambient temperature

-40 °C ... 70 °C

(-40 °F ... 158 °F)

#### Process temperature

-40 °C ... 150 °C

(-40 °F ... 302 °F)

#### Process pressure absolute / max. overpressure limit

Vacuum ... 40 bar

(Vacuum ... 580 psi)

#### Min. density of medium

>0,7g/cm<sup>3</sup>

(>0,5g/cm<sup>3</sup> optional)

#### Main wetted parts

316L

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## Point Level / Liquids

### Process connection

Threads:

G1/2, G3/4, G1, MNPT1/2, MNPT3/4, MNPT1, R1/2, R3/4, R1

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### Communication

AC/DC, DC-PNP

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### Certificates / Approvals

CSA C/US, EAC

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### Safety approvals

Overfill protection WHG

Leakage

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### Design approvals

EN 10204-3.1

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### Marine approval

ABS/ LR/ BV/ DNV

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### Options

Adjustment switching delay

Cleaned from oil+grease,

PWIS free

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More information [www.uk.endress.com/FTL31](http://www.uk.endress.com/FTL31)



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