

# Vibronic

## Point level detection

### Liquiphant FTL85

Coated point level switch for liquids for FailSafe overfill prevention



More information and current pricing:

[www.de.endress.com/FTL85](http://www.de.endress.com/FTL85)

#### Benefits:

- Use in safety systems requiring functional safety to SIL3 in accordance with IEC 61508 Ed.2.0/ IEC 61511-1/ISA 84-1 and DIN EN ISO 13849
- Proof test: proof testing interval up to 12 years, Slave devices tested at the press of a button
- Permanent self-monitoring/internal redundancy
- 4-20mA interface (acc. to NAMUR NE 06/NE 43): easy integration via the switching unit (Nivotester FailSafe FTL825) with a two-channel output (safety contacts) and locking function or direct integration into a safety PLC
- No adjustment: quick, low-cost startup
- No mechanically moving parts: no maintenance, no wear, long operating life
- Monitoring of fork for damage, corrosion, buildup and mechanical blocking

#### Specs at a glance

- **Process temperature**  $-50^{\circ}\text{C} \dots +150^{\circ}\text{C}$  ( $-58^{\circ}\text{F} \dots +300^{\circ}\text{F}$ )
- **Process pressure / max. overpressure limit** Vacuum...40 bar (580 psi)
- **Min. density of medium** Density from 0.4 g/cm<sup>3</sup> (0.4 SGU)

**Field of application:** Liquiphant FTL85 is a coated point level switch for use in hazardous areas with all international certificates. FailSafe overfill prevention in applications with functional safety up to SIL3 with one device. With high corrosion-resistant coating made of enamel, ECTFE and various PFA materials. Reliable measurement values, not affected by:

changing media properties, flow, turbulences, gas bubbles, foam, vibrations or build-up.

## Features and specifications

### Point Level / Liquids

#### Measuring principle

Vibration Liquids

#### Characteristic / Application

Coated point level switch for MIN and MAX safety applications up to SIL3,  
Dual Sealing/ Second line of defense,  
Modular housing concept

#### Specialities

Outstanding features:

- permanent LIVE signal monitors function safety
- failsafe design and
- high availability of the measuring values

#### Supply / Communication

2-wire 4...20 mA

#### Ambient temperature

-50°C...+70°C  
(-58°F...+160°F)

#### Process temperature

-50°C...+150°C  
(-58°F...+300°F)

#### Process pressure / max. overpressure limit

Vacuum...40 bar  
(580 psi)

#### Min. density of medium

Density from 0.4 g/cm<sup>3</sup>  
(0.4 SGU)

## Point Level / Liquids

### Main wetted parts

With high corrosion-resistant coating made of enamel, ECTFE and various PFA materials

### Process connection

Flange:  
DN25...DN100,  
ASME 1"...4",  
JIS 10K...20K

### Sensor length

Extension pipe up to 3 m (9.8 ft)

### Communication

2-wire 4...20 mA

### Certificates / Approvals

ATEX, FM, CSA, CSA C/US, IEC Ex, NEPSI, EAC

### Safety approvals

Overfill protection WHG  
Leakage Detection  
SIL3

### Options

AlloyC Material  
PWIS free  
Pressure tight feed through  
Weather protection

### Components

Nivotester FTL825, Transmitter

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