

# Vibronic

## Point level detection

### Liquiphant FTL81

Point level switch for liquids for FailSafe overfill prevention



Mais informações e preço atual:

[www.br.endress.com/FTL81](http://www.br.endress.com/FTL81)

#### Benefícios:

- 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, build-up and mechanical blocking

#### Especificações resumidas

- **Process temperature** -60°C...+280°C (-76°F...+540°F)
- **Process pressure absolute / max. overpressure limit**  
Vacuum...100 bar (1450 psi)
- **Min. density of medium** Density from 0.4 g/cm<sup>3</sup> (0.4 SGU)

**Campo de aplicação:** Liquiphant FTL81 is a 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. Reliable measurement values, not affected by: changing media properties, flow, turbulences, gas bubbles, foam, vibrations or build-up.

## Características e especificações

### Point Level / Liquids

#### Measuring principle

Vibration Liquids

#### Characteristic / Application

Reliable point level switch with extension pipe 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

-60°C...+70°C

(-76°F...+160°F)

#### Process temperature

-60°C...+280°C

(-76°F...+540°F)

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

Vacuum...100 bar

(1450 psi)

---

**Point Level / Liquids****Min. density of medium**

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

---

**Main wetted parts**

316L

Alloy C

---

**Process connection**

Flange:

DN25...DN100,

ASME 1"...4",

JIS 10K...20K

Thread:

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

---

**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

---

Point Level / Liquids

**Design approvals**

EN 10204-3.1

NACE MR0175, MR0103

ASME B31.3

AD2000

---

**Marine approval**

GL/ ABS/ LR/ BV/ DNV

---

**Options**

PWIS free

Pressure tight feed through

Weather protection

---

**Components**

Nivotester FTL825, Transmitter

---

Mais informações [www.br.endress.com/FTL81](http://www.br.endress.com/FTL81)