

Vibronic

Point level detection

Liquiphant FTL81

Point level switch for liquids for FailSafe overfill protection



More information and current pricing:

www.endress.com/FTL81

Benefits:

- Use in safety systems requiring functional safety to SIL3 in accordance with DIN EN IEC 61508 Ed.2.0 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

Specs at a glance

- **Process temperature** -60°C...+280°C (-76°F...+540°F)
- **Process pressure / max. overpressure limit** Vacuum...100 bar (1450 psi)
- **Min. density of medium** Density from 0.4 g/cm³ (0.4 SGU)

Field of application: Liquiphant FTL81 is a point level switch for use in hazardous areas with all international certificates. FailSafe overfill protection 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.

Features and specifications

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
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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 / max. overpressure limit

Vacuum...100 bar

(1450 psi)

Min. density of medium

Density from 0.4 g/cm³

(0.4 SGU)

Point Level / Liquids

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

Design approvals

EN 10204-3.1
NACE MR0175, MR0103
ASME B31.3
AD2000

Marine approval

GL/ ABS/ LR/ BV/ DNV

Point Level / Liquids

Options

PWIS free
Pressure tight feed through
Weather protection

Components

Nivotester FTL825, Transmitter

More information www.endress.com/FTL81