

Vibronic

Point level detection

Liquiphant FTL80

Point level switch for liquids for FailSafe overfill prevention



More information and current pricing:

www.at.endress.com/FTL80

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, build-up and mechanical blocking

Specs at a glance

- **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/cm³ (0.4 SGU)

Field of application: Liquiphant FTL80 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.

Features and specifications

Point Level / Liquids

Measuring principle

Vibration Liquids

Characteristic / Application

Compact 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

-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/cm³
(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

Compact

Communication

2-wire 4...20 mA

Certificates / Approvals

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

Safety approvals

Overfill protection WHG

Leakage

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

More information www.at.endress.com/FTL80