Vibronic Point level detection Liquiphant FTL81

Point level switch for liquids for FailSafe overfill prevention



- 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 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





More information and current pricing: www.endress.com/FTL81

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

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)

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

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