Vibronic Point level detection Liquiphant FTL50H

Compact vibration point level switch for liquids especially in the food and life sciences industry



More information and current pricing: www.endress.com/FTL50H

Benefits:

- International hygienic certificates (3-A, EHEDG, ASME BPE). FDAconformed material
- Electro-polished and passivated surface finishing
- International explosion protection certificates and overfill protection certificate (WHG)
- No mechanically moving parts: no maintenance, no wear, long operating life.
 - Monitoring of fork for damage: quaranteed function
- Use in safety systems requiring functional safety to SIL2/SIL3 in accordance with IEC 61508/IEC 61511-1
- No calibration required, easy to start up
- Variety of standardized hygienic process connections for hygiene sensitive applications

Specs at a glance

- Process temperature -50 °C...+150 °C (-58 °F...+302 °F)
- Process pressure / max. overpressure limit Vacuum...64 bar (Vacuum...928 psi)
- Min. density of medium 0.5g/cm³ (0.4g/cm³ optional)

Field of application: Liquiphant FTL50H is a point level switch for use in hazardous areas with all international certificates. Especially useable in the food and life sciences industry with hygienic certificates (3-A, EHEDG, ASME BPE). FTL50H offers functional safety SIL2/SIL3. 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

Premium device for point level detection in hygienic/aseptic applications.
Focus Food & Beverage and Life Sciences.
Compact sensor version,
Modular & completely welded housing concept,
Wide range of certificates.

Specialities

Plug and play functionalities, Surface finish: mechanical or electro-polished, Density/Concentration measurement, SIL 2/3 according to IEC 61508

Supply / Communication

PROFIBUS PA, 19 ..253V AC, 10...55V DC-PNP, 19...253V AC or 19...55V DC with relay DPDT, 8/16mA, NAMUR, PFM

Ambient temperature

-50 °C...+70 °C (-58 °F...+158 °F)

Process temperature

-50 °C...+150 °C (-58 °F...+302 °F)

Point Level / Liquids

Process pressure / max. overpressure limit

Vacuum...64 bar (Vacuum...928 psi)

Min. density of medium

 $0.5g/cm^3$

(0.4g/cm³ optional)

Main wetted parts

316L

Process connection

Threads (for weld-in adapter):

G3/4A, G1A.

Flange:

DN25...DN100

ASME 1"...4",

JIS 25A...100A

Process connection hygienic

Tri-Clamp,

DIN 11851, DIN11864-1

Ingold,

Flush mount,

DRD,

SMS1145,

Varivent (Varinline)

Sensor length

Compact sensor

Communication

PROFIBUS PA

Certificates / Approvals

ATEX, FM, CSA C/US, IEC Ex, TIIS, INMETRO, NEPSI

Point Level / Liquids

Safety approvals

Overfill protection WHG, SIL 2/ SIL 3

Design approvals

Inspection certificate 3.1, EN10204, CoC ASME BPE, Conformity to cGMP, EU Food Contact Material (EC) 1935/2004, US Food Contact Material FDA CFR 21, CN Food Contact Material GB 4806, Declaration of Conformity ASME B31.3, AD2000,

CRN approval

Hygienic approvals

3-A, EHEDG, CoC-ASME BPE

Marine approval

GL/ ABS/ DNV

Options

Customized settings (Density)

Components

FTL325P/FTL375P Interface PFM FTL325N/FTL375N Interface NAMUR

Successor

FTL63

Density

Measuring principle

Vibration Density

Density

Characteristic / Application

Premium device for density measurement in hygienic/aseptic applications.

Focus Food & Beverage and Life Sciences.

Compact sensor version.

Modular housing or completely welded compact housing.

Wide range of certificates.

Supply / Communication

via density controller FML621

Ambient temperature

-40 °C...70 °C (-40...158 °F)

Process temperature

0...80 °C (32...176 °F)

Process pressure

0...25 bar (0...362 psi)

Wetted parts

316L

Hygienic

3A

EHEDG

Sensor length

Compact sensor

Output

Pulse

Certificates / Approvals

ATEX, FM, CSA C/US, IEC Ex, TIIS, INMETRO, NEPSI

Density

Specialities

Density/Concentration measurement in combination with density controller FML621, Surface finish: mechanical polished (up to $0.3 \mu m$)

Components

Density Computer FML621

More information www.endress.com/FTL50H