Vibronic Point level detection Liquiphant FTL51H

Point level switch with extension tube for liquids especially in the food and life sciences industry



More information and current pricing: www.endress.com/FTL51H

Benefits:

- International hygienic certificates (3-A, EHEDG, ASME BPE). FDAconformed material
- Electro-polished and passivated surface finishing
- International explosion protection certificates and overfill prevention certificate (WHG)
- No mechanically moving parts: no maintenance, no wear, long operating life.
 - Monitoring of fork for damage: guaranteed 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 absolute / max. overpressure limit
 Vacuum...64 bar (Vacuum...928 psi)
- Min. density of medium 0.5g/cm³ (0.4g/cm³ optional)

Field of application: Liquiphant FTL51H is a point level switch with extension tube 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). FTL51H 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

Density

Measuring principle

Vibration Density

Characteristic / Application

Liquiphant M Density

with Density Computer FML621

Temperature and pressure measurement

Modular & completely welded housing concept

Focus Food & Pharma

Surface up to 0.3 µ

Variable sensor length up to 3 m (6 m option)

Supply / Communication

Transmitter power supply (MUS)

Ambient temperature

- -50...70°C
- -50...60°C for hazardous applications

Process temperature

0...80°C (validity of accuracy data)

-50...0°C / 80...150°C (with reduced technical data)

Process pressure absolute

0...25 bar

>25...64 bar (with reduced technical data)

Wetted parts

316L

Hygienic

3A

EHEDG

Density

Sensor length

115...3000 mm

>3000...6000 mm (Option)

Output

Pulse

Certificates / Approvals

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

Specialities

Commissioning with ReadWin2000

Components

Density Computer FML621

Other approvals and certificates

SIL2/SIL3

Point Level / Liquids

Measuring principle

Vibration Liquids

Characteristic / Application

Modular & completely welded housing concept Focus Food & Pharma surface up to 0,38µm electro polished wide range of process connections Analogue and bus interfaces Extensive certificate range (e.g. EHEDG,3A) Compact, e.g. pipes variable sensor length up to 3m (6m option)

Specialities

Foamdetection

Detect changes of the density

Point Level / Liquids

Supply / Communication

PROFIBUS PA 19...253V AC 10...55V DC-PNP 19...253V AC bzw 10...55V DC 8/16mA, 11...36V DC

NAMUR

PFM

Ambient temperature

-50 °C...+70 °C (-58 °F...+158 °F)

Process temperature

-50 °C...+150 °C (-58 °F...+302 °F)

Process pressure absolute / max. overpressure limit

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

Min. density of medium

0.5g/cm³ (0.4g/cm³ optional)

Main wetted parts

316L

Process connection

Thread:

G3/4A, G1A, R3/4", R1, NPT3/4, NPT1

Flange:

DN25...DN100,

ASME 1"...4",

JIS 25A...100A

Point Level / Liquids

Process connection hygienic

Tri-Clamp ISO2852

Dairy coupling

Aseptic

DRD

SMS

Varivent

Sensor length

Length 130mm (5.12") (Liquiphant II) 148mm...6000mm (5.83...236")

Communication

PROFIBUS PA

19...253V AC

10...55V DC-PNP

19...253V AC bzw 10...55V DC

8/16mA, 11...36V DC

NAMUR

PFM

Certificates / Approvals

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

Safety approvals

SIL2/SIL3

Design approvals

EN 10204-3.1

AD2000

Hygienic approvals

CoC ASME-BPE

Marine approval

GL/ ABS/ DNV

Point Level / Liquids

Components

FTL325P/FTL375P Interface PFM FTL325N/FTL375N Interface NAMUR

More information www.endress.com/FTL51H