

Vibronic

Point level detection

Liquiphant FTL51H

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



Thông tin thêm và mức tính giá hiện tại:

www.apsc.endress.com/FTL51H

Lợi ích:

- International hygienic certificates (3-A, EHEDG, ASME BPE). FDA-conformed 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

Tổng quan về thông số kỹ thuật

- **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)

Phạm vi ứng dụng: 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.

Tín năng và thông số kỹ thuật

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

Foam detection

Detect changes of the density

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)

Point Level / Liquids**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

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

Point Level / Liquids**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

Components

FTL325P/FTL375P Interface PFM
FTL325N/FTL375N Interface NAMUR

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)

Density**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

Sensor length

115...3000 mm

>3000...6000 mm (Option)

Output

Pulse

Certificates / ApprovalsATEX, FM, CSA C/US, IEC Ex, TIIS, INMETRO,
NEPSI

Specialities

Commissioning with ReadWin2000

Components

Density Computer FML621

Other approvals and certificates

SIL2/ SIL3

Thông tin bổ sung www.apsc.endress.com/FTL51H