

Vibronic

Point level detection

Soliphant FTM51

Robust point level switch with extension tube for fine-grained bulk solids also for hazardous areas



More information and current pricing:

www.endress.com/FTM51

Benefits:

- SIL2 in accordance with IEC 61508
- No mechanically moved parts, free of maintenance
- Measurement not affected by build-up or external vibration
- Various electronic inserts: e.g. NAMUR, relay, thyristor and PFM-signal outputs for optimum alignment with the plant control system
- Build-up and abrasion display selectable, density setting and switching delay selectable
- Choice of coated or polished sensor
- Build-up and corrosion detection

Specs at a glance

- **Process temperature** -50°C ... 280°C (-60 °F ... 540°F)
- **Process pressure / max. overpressure limit** Vacuum ... 25 bar (Vacuum ... 360 psi)
- **Min. density of medium** Standard fork: 10 g/l Short fork: 50 g/l

Field of application: Soliphant FTM51 is a robust point level switch for use in silos containing fine-grained or powdery solids even with a low bulk density. Suitable for a wide range of applications with international certificates for use in dust or gas hazardous areas. Available with polished fork and stainless steel housing with Tri-Clamp or with aluminum housing and coated fork. Maintenance-free device for use in typical applications like: cereals, flour, cocoa, sugar, animal feed, dye powder, chalk.

Features and specifications

Point Level / Solids

Measuring principle

Vibration Solids

Characteristic / Application

Point level switch for fine grained solids and powder

Grain size: ≤ 10 mm (≤ 0.39 in)

Fork sensor

No calibration required

Not affected by build-up or external vibration

Robust

Switch value visible from outside

Tube extension

Specialities

Build-up and corrosion detection

Remote version

3 temperature versions available

SIL 2

Supply / Communication

DC PNP 3-wire

AC 2-wire

19...253V AC / 19V...55V DC 2 relay contact

8/16mA

NAMUR

PFM

Ambient temperature

-50°C ... 70°C

(-60°F ... 160 °F)

Process temperature

-50°C ... 280°C

(-60 °F ... 540°F)

Point Level / Solids**Process pressure / max. overpressure limit**

Vacuum ... 25 bar
(Vacuum ... 360 psi)

Min. density of medium

Standard fork: 10 g/l
Short fork: 50 g/l

Main wetted parts

selectable:

316L 3,2 µm

316L 0,8 µm

316L PTFE coated (to avoid build-up)

316L ETFE coated (to avoid corrosion)

Process connection

Thread

R 1 1/2"

1 1/4" NPT

1 1/2" NPT

EN Flange DN50...DN100

ASME Flange 2"...4"

JIS Flange 50A...100A

Process connection hygienic

Tri-Clamp ISO2852

Sensor length

300 ... 4000mm

(12 ... 155")

(6000mm / 230" on request)

Point Level / Solids

Communication

DC PNP 2-wire
AC Thyristor
DPDT relay
8/16mA
NAMUR
PFM

Certificates / Approvals

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

Safety approvals

SIL

Design approvals

EN 10204-3.1

Options

Glass cover
Temperature spacer
EN10204-3.1

Components

PFM: FTL325P, FTL375P
NAMUR: FTL325N, FTL375N

More information www.endress.com/FTM51