

Vibronic

Point level detection

Soliphant FTM50

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



More information and current pricing:

www.ca.endress.com/FTM50

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 absolute / max. overpressure limit** Vacuum ... 25 bar (Vacuum ... 360 psi)
- **Min. density of medium** 10 g/l (8 g/l on request)

Field of application: Soliphant FTM50 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

Fork sensor

Universal

No calibration required

Not affected by build-up or external vibration

Robust

Switch value visible from outside

Compact

Specialities

Build-up and corrosion detection

Remote version

3 temperature versions available

SIL 2

Supply / Communication

10-55V DC PNP 3-wire

19-253V 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)

Process pressure absolute / max. overpressure limit

Vacuum ... 25 bar

(Vacuum ... 360 psi)

Point Level / Solids**Min. density of medium**10 g/l (8 g/l on request)

Main wetted parts

selectable:

316L 3,2um

316L 0,8um

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 hygienicTri-Clamp ISO2852

Sensor length

Standard: 200mm (8")

Short: 145mm (5.7")

Communication

DC PNP 2-wire

AC Thyristor

DPDT relay

8/16mA

NAMUR

PFM

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

Point Level / Solids

Safety approvals

SIL

Design approvals

EN 10204-3.1

Options

Glass cover

Temperature spacer

EN10204-3.1

Components

PFM: FTL325P, FTL375P

NAMUR: FTL325N, FTL375N

Application limits

Grain size > 10mm (0.4")

More information www.ca.endress.com/FTM50