

Vibronic

Point level detection

Soliphant FTM52

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



More information and current pricing:

www.be.endress.com/FTM52

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** -40°C ...80 °C (-40°F ... 170°F)
- **Process pressure absolute / max. overpressure limit** Vacuum ... 2 bar (Vacuum ... 30 psi) max. 6 bar / 80 psi for EExd/EExde
- **Min. density of medium** 10 g/l (8g/l on request)

Field of application: Soliphant FTM52 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

Rope extension

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 / 19...55V DC 2 relay contact

8/16mA

NAMUR

PFM

Ambient temperature

-50°C ... 70°C

(-60°F ... 160°F)

Process temperature

-40°C ... 80 °C

(-40°F ... 170°F)

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

Vacuum ... 2 bar
(Vacuum ... 30 psi)
max. 6 bar / 80 psi for EExd/EExde

Min. density of medium

10 g/l (8g/l on request)

Main wetted parts

Sensor selectable: 316L 3,2um
316L 0,8um
316L PTFE coated (to avoid build-up)
Rope: PUR, Silicon

Max. tensile strength

3000 N

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

750....20000mm
(30...800")

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

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.be.endress.com/FTM52