

# 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.fr.endress.com/FTM50](http://www.fr.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 / 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 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

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**Point Level / Solids****Measuring principle**Vibration Solids

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**Characteristic / Application**

Compact point level switch for fine grained solids and powder

Grain size  $\leq 10$  mm ( $\leq 0.39$  in)

Fork sensor

No calibration required

Not affected by build-up or external vibration

Robust

Switch value visible from outside

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**Specialities**

Build-up and corrosion detection

Remote version

3 temperature versions available

SIL 2

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**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

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**Ambient temperature**

-50°C ... 70°C

(-60°F ... 160 °F)

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**Process temperature**

-50°C ... 280°C

(-60°F ... 540°F)

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**Process pressure / max. overpressure limit**

Vacuum ... 25 bar

(Vacuum ... 360 psi)

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**Point Level / Solids****Min. density of medium**

Standard fork: 10 g/l

Short fork: 50 g/l

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**Main wetted parts**

selectable:

316L 3,2um

316L 0,8um

316L PTFE coated (to avoid build-up)

316L ETFE coated (to avoid corrosion)

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**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

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**Process connection hygienic**

Tri-Clamp ISO2852

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**Sensor length**

Standard: 200mm (8")

Short: 145mm (5.7")

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**Communication**

DC PNP 2-wire

AC Thyristor

DPDT relay

8/16mA

NAMUR

PFM

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**Certificates / Approvals**

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

EAC

## Point Level / Solids

### Safety approvals

SIL

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### Design approvals

EN 10204-3.1

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### Options

Glass cover

Temperature spacer

EN10204-3.1

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### Components

PFM: FTL325P, FTL375P

NAMUR: FTL325N, FTL375N

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More information [www.fr.endress.com/FTM50](http://www.fr.endress.com/FTM50)