

# 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.casc.endress.com/FTM52](http://www.casc.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.

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## Features and specifications

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### Point Level / Solids

**Measuring principle**

Vibration Solids

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**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

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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 / 19...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**

-40°C ... 80 °C

(-40°F ... 170°F)

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

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

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**Min. density of medium**

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

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**Main wetted parts**

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

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**Max. tensile strength**

3000 N

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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**

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

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## Point Level / Solids

### 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

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### Safety approvals

SIL

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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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### Application limits

Grain size > 10mm (0.4")

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