

Vibronic

Point level detection

Soliphant FTM21

Compact limit switch with extension tube for bulk solids



Benefits:

- No calibration required, easy commissioning (plug and play)
- Measurement not affected by build-up or external vibration
- No mechanically moved parts, free of maintenance
- Sensor material 316L, abrasion resistant even with building materials
- Plastic housing with cover with sight glass, switch status visible from outside;
also aluminium housing available
- Not affected by flow noises
- Available with explosion protection certificates

Specs at a glance

- **Process temperature** -40°C ... 150°C (-40°F ... 300°F)
- **Process pressure / max. overpressure limit** Vacuum ... 25 bar
(Vacuum ... 360 psi)
- **Min. density of medium** 200 g/l

Field of application: Soliphant FTM21 is a point level switch for applications with fine-grained or coarse-grained, non-fluidized bulk solids. The various designs means the device has a wide range of applications. Certificates are also available for use in dust and hazardous areas.

Features and specifications

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

Characteristic / Application

Point level switch for fine grained solids

Grain size ≤ 25 mm (≤ 0.98 in)

Single rod

No calibration required

Not affected by build-up or external vibration

Robust

Switch value visible from outside

Tube extension

Supply / Communication

10 - 45 VDC

19 - 253 VAC relay

DC PNP 10 - 45 V

Ambient temperature

-40°C ... 70°C

(-40°F ... 160°F)

Process temperature

-40°C ... 150°C

(-40°F ... 300°F)

Process pressure / max. overpressure limit

Vacuum ... 25 bar

(Vacuum ... 360 psi)

Min. density of medium200 g/l

Main wetted parts316L

Point Level / Solids**Process connection**

Thread

R 1"

R 1 1/2"

1 1/4" NPT

1 1/2" NPT

Sensor length

500 mm (20")

1000 mm (40")

1500 mm (60")

Communication

DPDT relay

DC PNP max 350 mA

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

OptionsSliding sleeve available
