

Capacitance

Point level detection

Solicap FTI56

Point level detection for fine-grained to coarse-grained bulk solids



F L E X

Benefits:

- Extremely robust design for harsh process conditions
- Cost savings thanks to easy and fast commissioning as calibration is performed at the press of a button
- Universal application thanks to wide range of certificates and approvals
- Two-stage overvoltage protection against static discharges from the silo
- Increased safety due to permanent automatic monitoring of electronics
- Reduction in storage costs thanks to easy-to-shorten rod model (for partial insulation) and rope model (for partial and full insulation)

Specs at a glance

- **Process temperature** -50°C ... 180°C (-58°F ... 356°F)
- **Process pressure / max. overpressure limit** Vacuum ... 25 bar (Vacuum ... 362 psi)

More information and current pricing:

www.endress.com/FTI56

Field of application: Solicap FTI56 is a fully/partly insulated and robust rope probe for point level detection of fine-grained to coarse-grained bulk solids. It offers maximum reliability and is suited for a wide range of applications thanks to numerous certificates and approvals. Due to its robust construction, it can also be used to provide accurate measurements in applications with very high tensile loads up to 60kN.

Features and specifications

Point Level / Solids**Measuring principle**Capacitive Solid

Characteristic / Application

Fully / partly insulated rope probe for small-grain / large-grain solids

Simple calibration

Suitable for abrasive media

Very robust probe

Specialities

Inactive length

High tensile loading

Extremely robust probe

Supply / Communication

19 ... 253V AC

10 ... 55V DC-PNP

19...253V AC bzw 10...55V DC

8/16mA, 11 ... 36V DC

PFM

3-wire

Ambient temperature

-50°C ... 70°C

(-58°F ... 158°F)

Process temperature

-50°C ... 180°C

(-58°F ... 356°F)

Process pressure / max. overpressure limit

Vacuum ... 25 bar

(Vacuum ... 362 psi)

Main wetted partsPTFE, PA, 316L, Steel

Point Level / Solids**Max. tensile strength**60 kN

Process connection

Thread R1 1/2, NPT1 1/2

Flanges from DN50.../ASME 2".../JIS...

Sensor length

0.5m ... 22m

(1.6ft ... 72ft)

Inactive length: 0.1m....1m

(3"...39")

Communication

2- wire 19-253 VAC

DC PNP

Relais DPDT

PFM

3-wire

8/16 mA

Certificates / ApprovalsATEX, FM, CSA, IEC Ex, JPN Ex, NEPSI

Safety approvalsSIL

Components

PFM: FTC325, FTC625, FTC470Z, FTC471Z

3-wire: FTC325

Application limitsDK min 2

More information www.endress.com/FTI56