

# Point level switch Soliswitch FTE20 Rotary paddle switch

Simple mechanical mechanism, extremely robust and cost-effective point level switch for bulk solids



## Benefits:

- Safety comes first - Overfill prevention with an automatic rotation monitoring system
- Optical rotation control for a fast and easy check either for installation or for trouble shooting
- Extremely robust polymer housing with the latest dust Ex certification for ATEX, FM and CSA
- Cost savings over the whole life cycle:
  - Fast order process due to E-direct
  - Quick installation
  - Fast trouble shooting concept without the need of demounting
  - Best price performance ratio in the market
- Adjustment to weight of solids without the need for tools
- Housing can be rotated 360° to enable optimal alignment following installation.

More information and current pricing:

[www.endress.com/FTE20](http://www.endress.com/FTE20)

## Specs at a glance

- **Process temperature** -20 °C ... 80 °C (-4 °F ... 170 °F)
- **Process pressure / max. overpressure limit** 0.5 bar to 1.5 bar (7 psi ... 22 psi)
- **Min. density of medium**  $\geq 80$  g/l

**Field of application:** The economical Soliswitch FTE20 is a paddle switch for point level detection in bulk materials. Its robust polymer housing and compact design makes it an ideal sensor for full, empty and demand alarm in applications with bulk solids. The optimized polymers make the

unit outstandingly robust and therefore suitable for use in dust explosive areas according the latest standards.

## Features and specifications

### Point Level / Solids

**Measuring principle**

Paddle

**Characteristic / Application**

universally applicable as a full, empty and demand alarm on silos containing solids

**Specialities**

Rotation Monitoring System

Fold-away paddle

**Supply / Communication**

230 VAC 50/60 Hz

115 VAC 50/60 Hz

24 VAC 50/60 Hz

20 bis 28 VDC

**Ambient temperature**

-20 °C ... 60 °C (-4 °F ... 140 °F)

**Process temperature**

-20 °C ... 80 °C (-4 °F ... 170 °F)

**Process pressure / max. overpressure limit**

0.5 bar to 1.5 bar (7 psi ... 22 psi)

**Min. density of medium**

$\geq 80$  g/l

**Main wetted parts**

1.4305

**Max. tensile strength**

Rope version  $>1500$ N

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**Point Level / Solids****Process connection**

NPT 1 1/2", PBT  
NPT 1 1/4", PBT  
G 1 1/2", PBT  
NPT 1 1/2", 1.4305  
NPT 1 1/4", 1.4305  
G 1 1/2", 1.4305

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**Sensor length**

75 mm (3")  
100 mm (4")  
120 mm (4 3/4")  
200 mm (8")  
300 mm (12")  
Rope length of approx 2000 mm (80"), can be shortened

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**Communication**

Micro switch with changeover contact max. 10 A/250 VAC

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**Certificates / Approvals**

ATEX II1/2D Ex ta/tb IIIC Da/Db  
CSA DIP/ II, III/1/E-G  
FM DIP/ II, III/1/E-G  
EAC Ex ta/tb IIIC Da/Db  
IECEX Ex ta/tb IIIC Da/Db  
NEPSI Ex tD A20/A21  
UK II1/2D Ex ta/tb IIIC Da/Db

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**Options**

Rotation Monitoring System  
Signal Lamp  
Fold-away paddle  
Weather protection cover

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**Components**

HAW569 Surge arrester

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