

Point level switch

Soliswitch FTE31

Rotary paddle switch

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



from **€402.42**

Price as of 25.08.2025

More information and current pricing:

www.endress.com/FTE31

Benefits:

- Reliable and economical paddle switch
- Highest safety standard for dust-explosion-hazardous areas
- Diverse instrument designs for use under different application conditions
- Slip clutch prevents impact on paddle
- Ingress protection to IP 65 / NEMA 4x / Type 4x for optimum safety in the process

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 to 22 psi)
- **Min. density of medium** ≥ 100 g/l

Field of application: The economical Soliswitch FTE31 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 materials make the unit outstandingly robust and therefore suitable for use in dust explosive areas.

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

Hinged paddle for retro-fitting

Supply / Communication

230V 50/60 Hz

115V 50/60 Hz

48V 50/60 Hz

24V 50/60 Hz

20 to 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 to 22 psi)

Min. density of medium

$\geq 100 \text{ g/l}$

Main wetted parts

Shaft: 1.4435

Paddle: 1.4435

Process connection

Threaded boss - thread NPT 1 1/4" or NPT 1 1/2"

Point Level / Solids**Sensor length**

Standard:

75 mm (3")

100 mm (4")

200 mm (8")

300 mm (12")

400 mm (16")

500 mm (20")

600 mm (24")

CommunicationRelay

Certificates / Approvals

FM DIP Cl.II,III, Div.1 Gr.EFG

CSA DIP Cl. II,III, Div.1, Gr.EFG

Application limitsmax. grain size 50 mm (2")

More information www.endress.com/FTE31