## SITRANS L Level instruments

### Point level measurement

### **Tilt Switches**

#### Overview



The Milltronics Tilt Switch probe is an electro-mechanical tilt switch for point level detection, plugged chute detection, belt tracking alarm, and feed loss detection on conveyor belts.

#### Benefits

- · High or low alarm
- Easy installation and operation
- Low cost
- Customised options

### Application

Tilt switches also provide simple high and low alarm for both dry bulk solids and liquids.

The rugged, stainless steel encapsulated probe is suspended vertically over a bin or belt, and the potted switch inside the probe provides a signal when material tilts it through an angle of more than 17° from vertical in any direction. Additional assembly options are available including replaceable wear extensions (for coarse and abrasive materials), flat or cross paddles (for medium bulk density materials), and floats (for liquids or light density bulk materials). The probes are also available for high or low temperature applications.

Using a variable alarm delay in the associated switch isolator or PLC is recommended for best results.

#### Technical specifications

#### Mode of operation

- Measuring principle
- Typical application

#### Features

- Number of points
- Output
- Transducers

#### **Probe Characteristics**

#### Design

- Housing
- Material type
- Shipping Weight

# Approvals Options

Tilting of encapsulated mercury

- High or low level alarm on bulk solids
- High or low level alarm for liquids (when used with float option)

Single point detection

- Single N.C. contact
- 2 A @ 24 V DC

Encapsulated tilt angle-sensitive mercury switch

- Resolution: nominal 17° from vertical
- Switch: totally encapsulated mercury switch rated at 1.7 A @ 115 V AC max., non-inductive

Schedule 80 stainless steel pipe with ½" NPT mounting for extensions

- 304 Stainless steel:
- low temperature: -40 to +90 °C (-40 to +194 °F)
- high temperature: -40 to +230 °C (-40 to +450 °F)

2 kg (4.4 lbs)

CE

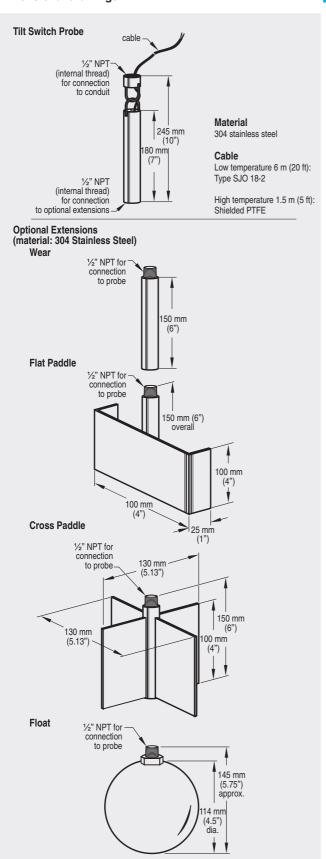
Extensions: stainless steel Wear, Cross Paddle, Flat Paddle or Float

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**Tilt Switch** 

### Dimensional drawings



Ordering data	Order No.
Tilt Switch Probe	A) 7MH7143-
Electro-mechanical tilt switch for point level detection, plug chute detection, belt tracking, and feed loss detection on conveyor belts	0
Model Standard CE	3
Sensor Construction Stainless steel	A
Temperature Rating Low temperature with 6 m (20 ft) of cable High temperature with 1.5 m (5 ft) of cable	A B
Probe Extension  None  Wear extension, stainless steel  Cross paddle extension, stainless steel  Flat paddle extension, stainless steel	1 3 5
Float, stainless steel	8
Instruction Manual Tilt Switch Probe, English Note: The instruction manual should be ordered as a separate item on the order.	A) <b>7ML1998-5FL01</b>

A) Subject to export regulations AL: N, ECCN: EAR99