

The Pointek VLS 200 is a vibrating level switch that detects the absence or presence of dry bulk solids in bins, silos or hoppers. The VLS 200 provides a contact output indicating a high or low level alarm. Products monitored include lime, styrofoam, flour, and plastic granules. The VLS 200 provides a strong reading in products with densities as low as 20 g/l (1.3 lb/ft<sup>3</sup>).

The VLS 200 has a compact design and can be top or side mounted. The fork design and the oscillating nature of the VLS 200 provide a constant self-cleaning to the tines.

The unique design of the fork and crystal assembly eliminates false high level readings.

A signal from the electronic circuit excites a crystal in the probe causing the fork to vibrate at a frequency of 125 Hz. If the fork is covered by material, the change in vibration is detected by the electronic circuitry which causes the relay to change state after a one second delay. When the fork is free from material pressure, full vibration resumes and the relay reverts to its normal condition.



### Product Features

- High resistance to mechanical forces
- Strong vibration resistant to high bulk material loads
- Rotatable enclosure
- Stainless steel 1½" threaded connection
- Suitable for light materials (20 g/l or 1.3 lb/ft<sup>3</sup>)
- Customer desired extensions up to 4000 mm (157")

## Technical Specifications

### Power

- 19 to 230 Vac, +10%, 50 to 60Hz, 8VA OR  
19 to 55 Vdc, +10%, 1.5W

### Alarm Output

- relay delay:
  - approx. 1 sec from loss of vibration
  - 1 to 2 sec from resumption of vibration
- relay failsafe: high or low, switch selectable
- relay 8A at 250V ac, non inductive

### Mechanical

- enclosure material: epoxy coated aluminum, NEMA 4 / IP65
- process connection: thread 1½" NPT, R 1½" DIN 2999 (tapered)
- optional sliding bushing with 2" NPT or BSP thread
- sensor material: stainless steel
- conduit entry: 2 x M20 or ½" NPT
- weight: approx 1.9 kg, + 2.5 kg/m extension tube

### Environmental

- location: indoor/outdoor
- ambient temperature: -40 to 60°C (-40 to 140°F)
- installation category: III

### Process

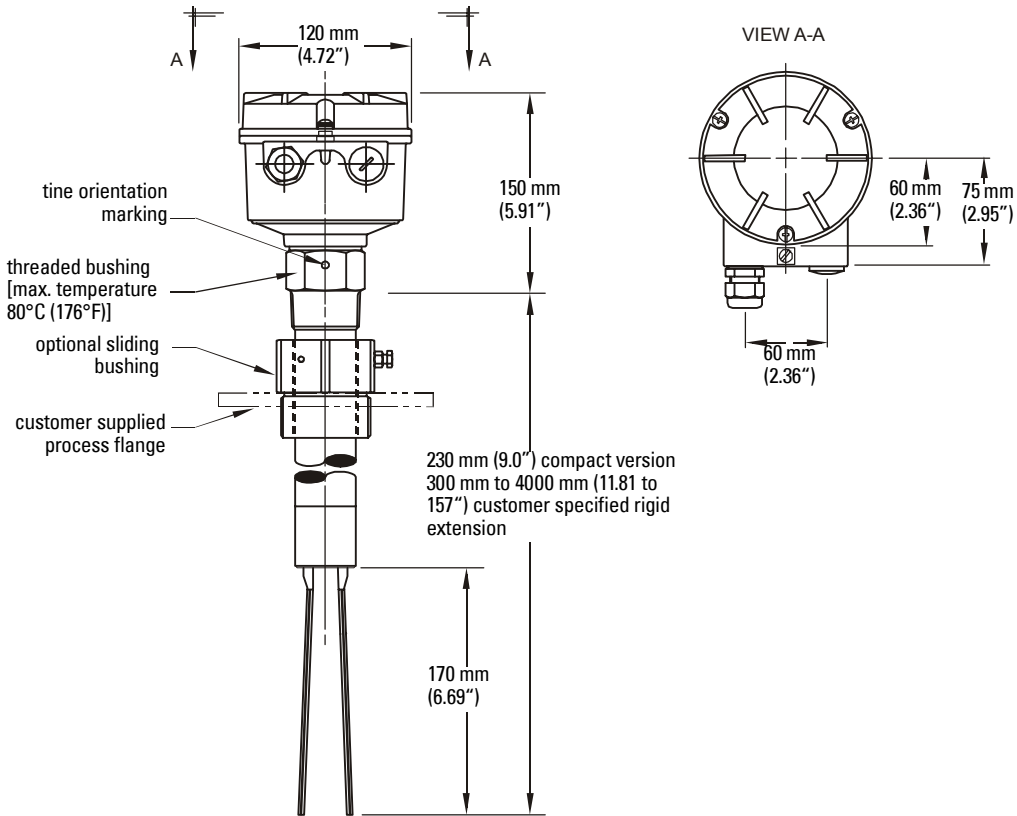
- process temperature: -40 to 150°C (-40 to 302°F)
- max. threaded bushing temperature: 80°C (176°F)
- max. enclosure surface temperature: 90°C (194°F)
- max. extension surface temperature: 150°C (302°F)
- pressure: max. 10 bar (145 psi)\*  
European Pressure Directive 97/23/EC: Category 1
- sensitivity: high or low, switch selectable
- minimum material density: 20 g/l (1.3 lb/ft<sup>3</sup>)
- measuring frequency: approx. 125 Hz

### Approvals

- FM/CSA Class II, Div. 1, Group E, F, G, Class III
- CSA<sub>US</sub> Class II, Div. 2, Class III
- ATEX II 1/2 D (dust explosion)
- CE

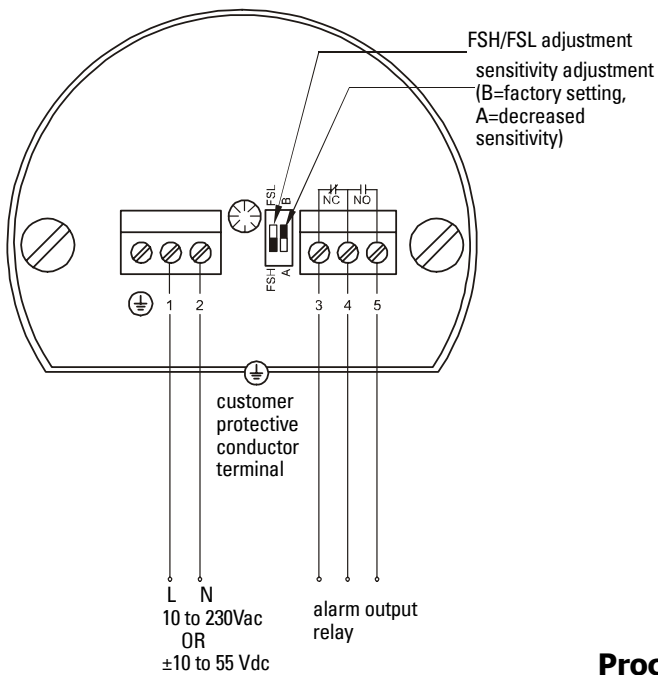
# Pointek VLS 200

## Dimensions



LEVEL MEASUREMENT  
POINT LEVEL

## Wiring



## Switching Logic

Setting	Probe	Relay output
Failsafe High	free	actuated
	covered	idle
Failsafe Low	free	idle
	covered	actuated
Power Failure	free or covered	idle

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