

# VIBRATING ROD LEVEL SWITCH

## VIBRATING ROD LEVEL SWITCH FOR SOLID APPLICATIONS

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**The Vibrating Rod Level Switch** is an economical choice in level detection of powders and bulk solids. The Vibrating Rod Level Switch built with piezoelectric crystals that vibrate the rod at a natural frequency. Once the rod comes in contact with the material, the vibration will be damped and the switch will change its state. Once the rod is uncovered by the material, the switch will revert to its normal state. Best for silo or hopper applications, its probe design allows for self-cleaning, ensuring no build-up or bridging of material and accurate detection. Sensitivity is adjustable for detection ranging from large granular material to small powders with low bulk densities. The failsafe mode can be set for failure on high level or failure on low level using a selector switch in instrument.

### Applications:

Flakes, Grains, Coal Powder, cereals, sugar, animal feed, milk powder, flour, insulation, cement, plastic granules, saw dust, wood chips carbon black, light fibres, detergent powders, dyes, chalk, silica,

### Salient Features:

- Compact size with integral electronics
- No calibration required, so plug and play
- No moving parts so no wear and tear
- Universal Power supply for AC /DC operation
- Relay or open collector PNP outputs available

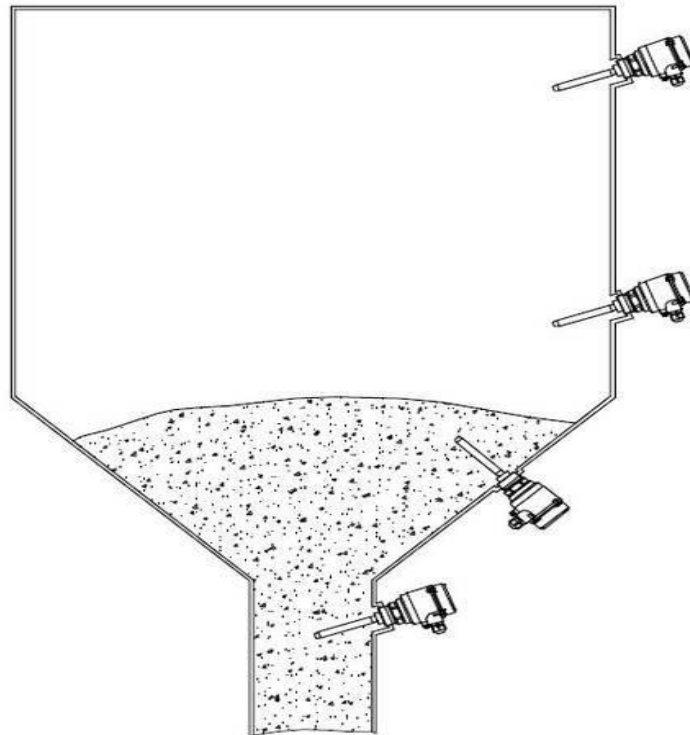
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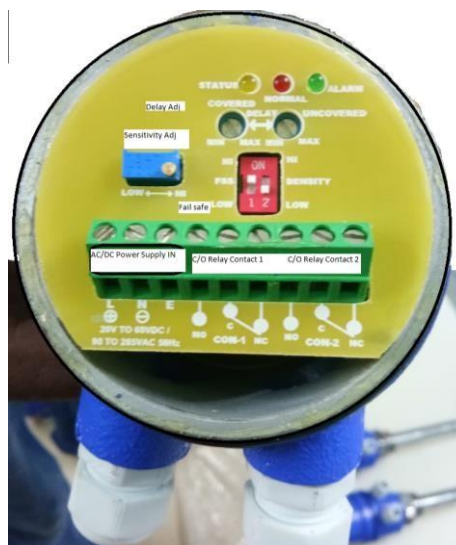
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- Rigid and sturdy design @ 250 mm
- Available in 1&1/2 inch and above screwed mounting standards
- IP 68 ingress protection
- Field Selectable fail safe mode
- LED indicators for status, alarm and normal operation
- Selectable Density setting and switching delay\_

### Installation Drawing:



### Electrical Installation:



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### **Technical Specifications:**

#### **Mechanical:**

Housing :- Cast Aluminium IP 68

TYPE :- Integral with probe with Electronics

Cable Entry :- PG 13.5

Cable Gland: Single compression PG13.5

**Process Connection:** 1&1/2" male BSP Std. NPT/Sanitary/flanged on request.  
Mounting/Pipe extension M.O.C.: SS304 /SS316 as per requirement

Tuning Rod: **S316**

#### **Process conditions:**

Pressure Limit: 150 psi (10 bar).

Sensitivity: Min. bulk density of 10 lb/ft<sup>3</sup> (160 kg/m<sup>3</sup>).

Temperatures: Ambient: -40 to 140°F (-40 to 60°C);

Process: -40 to 176°F (-40 to 80°C).

#### **Electronics:**

**Power supply: 20 to 270 V AC 50 Hz and 18 to 55 V DC**

Power consumption: 10 VA Max.

Out Put: SPDT/**DPDT Relay**/Relay output: Potential .free change over contacts  
rated at 6A 230 V AC 50 Hz

**Electrical Connections:** Screw terminals

Resonant frequency of fork: 350 Hz approx .

Switching delay: Adjustable up to 20 sec. for Rod covered or  
uncovered condition

Failsafe condition: High / Low field selectable. Sensitivity: Field  
selectable for Low and High density material

Indication: By LEDs, Yellow for status, Blue for Normal, and Red for Alarm

Manufactured By: M/S. Major Instruments

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