



## Vibrating Rod Point Level Switch ( JAYCEEVIBRO 2200 SERIES )

### PRINCIPAL

The electronically stimulated Concentric Rods vibrates at its mechanically resonance frequency of about 300 Hz when the Rod is free of the service material. The resonance is caused by the piezoelectric vibrator. One of the piezo crystals produces a small voltage which is transmitted to the switching amplifier. If the Rod is covered by the bulk material, a damping effect is produced, and the piezo crystal does not produce the voltage and the amplifier will switch, and a corresponding signal output is actuated. The vibration of the Rod has self-cleaning properties. The light deposit on the container wall does not affect the operation of the JAYCEEVIBRO.

### Features

- Fast and Easy Installation
- No moving parts, no wear and tear, maintenance -free
- Fast switching response 1 sec
- No effect of electrical properties of the Service material.
- Suitable for the highly dusty environment.
- Low power consumption
- No Calibration required

### Applications

- Building industry materials, cement, sand, lime, etc
- Foodstuff industry, milk powder, flour, salt, food grains, etc
- Plastic industry, powder, granular etc.
- Timber industry, chemical and mining etc

### Parts

The parts of vibrating rod point level switch are explained in figure 1.

All dimensions are in millimeters.

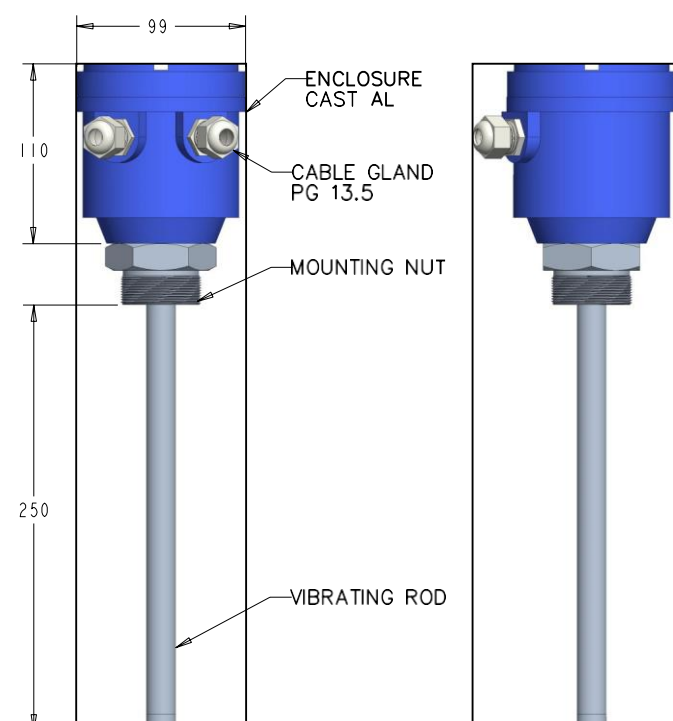


Figure 1 : Vibrating Rod Point level switch

## JAYCEE TECHNOLOGIES PVT. LTD.

An ISO 9001-2008 C E Certified Company

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## Technical Specification

<b>Housing</b>	: Aluminium, weather proof, powder coated.
<b>Cable entry</b>	: 2 nos.
<b>Ambient temperature</b>	: 0 ° C to +60° C
<b>Power consumption</b>	: 2 VA
<b>Mains Voltage</b>	: 230/110 V AC (+/-15%), 50 Hz, or 18 to 55 V DC (optional) Universal, 65 to 265 V AC
<b>Output</b>	: 2 sets of potential free c/o contacts rated at 5 amps, 230 V AC for noninductive loads. OR PNP/NPN DC output
<b>Switching delay</b>	: Continuously adjustable from 2 to 20 sec. probe
<b>Safety operation</b>	: Field selected switch over for min. or max. (FSL/FSH) switching
<b>Switch status</b>	: LED (Normal : Green, Alarm : Red)
<b>ROD (SENSING PROBE):</b>	
<b>Mounting</b>	: Screwed – 1" / 1 ½" BSP/NPT Flanged - As per requirement Others - As per requirement
<b>Sense</b>	: Rod, Stainless steel
<b>Extension</b>	: (Optional)
<b>Length</b>	: 270 (standard) up to 3000 mm and as per application.
<b>Operating Temp</b>	: <b>70</b> deg for the integral switching vessel unit. (standard)

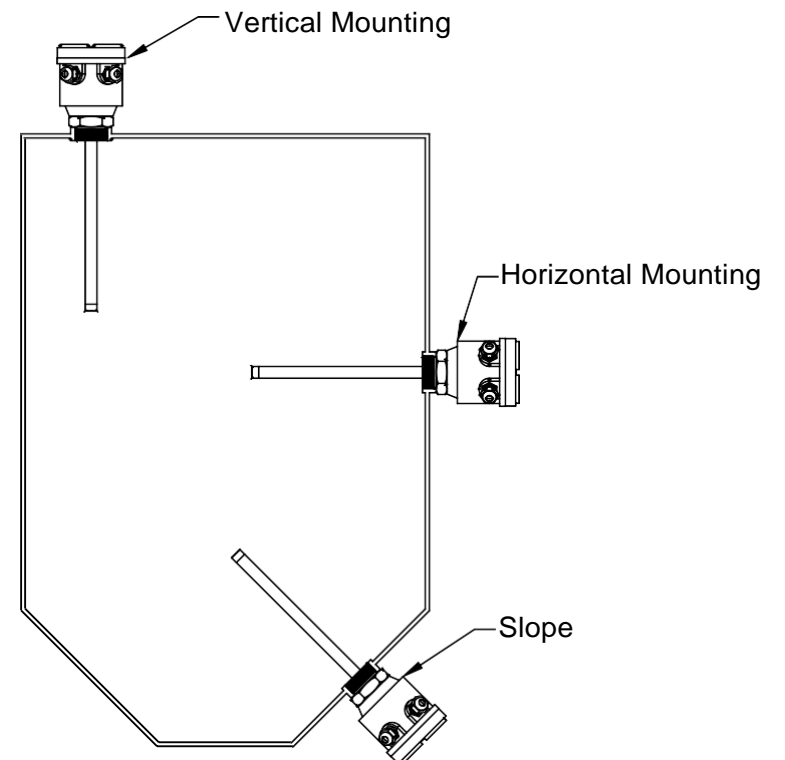


Figure 2 : Mounting Arrangement

## Model Selection

<b>JAYCEEVIBRO</b>						
<b>Enclosure (E)</b>						
1 - Weatherproof IP-65 2 - Flameproof						
<b>Temperature (T)</b>						
1- Standard Temperature Up to 80°C						
<b>Probe Length (PI)</b>						
1- Standard Probe Length 250 mm 2- Extended Probe Length Up to 3000 mm						
<b>Mounting Arrangement (M)</b>						
1- Threaded BSP / NPT 2- Flanged ANSI/DIN ; 3 - Others						
<b>Wetted Part (W)</b>						
1-SS304 2-SS316 3-SS316L 4- PTFE Line 5- Others						
<b>Output (O)</b>						
1 - DPDT Relay Output 2 - Open Collector PNP/NPN						
VIBRO	E	T	PI	M	W	O
2200	1	1	2	1	2	1