

Uniquely Designed & Patented Vibrating "Diamond Blade" & "Rod" Type Level Switches for Critical Applications in Level Control of Bulk Solids.

CV 150



CV 120



CV 140



CV 600



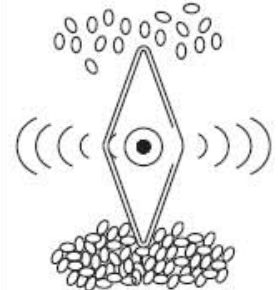
CV 660



Remote Electronics



Diamond Profile Prevents Built-up of Falling Solids..



## SPECIAL FEATURES

- ▶ Single "Diamond Blade" & "Rod" eliminates "Bridging Problem" faced in Vibrating Fork Design.
- ▶ Robust Construction & High Sensitivity.
- ▶ Vibrations produce "Self-Cleaning Effect" to counter Materials that may adhere to Probe / Tank Wall.
- ▶ Diamond Profile prevents "Built-up" of Falling Solids.
- ▶ Site Selectable Sensitivity for "Very Light", "Normal" & "Heavy" Material.
- ▶ Choice of Construction to suit Various Bulk Densities, Ranges & Process Temperatures in industrial Applications.
- ▶ No Moving Parts, hence almost no Maintenance.

**1 Vibrating Diamond Blade Level Switch**  
**Series : CV120/130/140/150**

Enclosure : Diecast AL WP-IP66 / 67, Remote Electronics (IP-65)  
 Conduit Connection : M20 X1.5mm  
 Power Supply : 20 to 250VAC /DC  
 Power Consumption : 3VA  
 Output : 8A - 250VAC / 24VDC SPDT (Option DPDT)  
 Resonance Frequency : 285 Hz Approx  
 Time Delay on Activation : 1 sec (After Covering Probe)  
 Time Delay on Activation : 2 to 5 sec ( After Uncovering Probe )  
 Adjustments : Failsafe Low or Failsafe High Selectable  
 Sensitivity : Site Selectable Depending on Material Bulk Density (Very Light / Normal / Heavy)  
 Probe Material : SS304  
 Process Connection : SS304 X 1 1/2" BSP / 1 1/2" NB Flange  
 Indication : Red LED on PCB  
 Min Density : 20gms / lit  
 Max Grain Size : 40mm  
 Max Pressure : 10 Kg/cm<sup>2</sup>  
 Amb Temperature : Electronics -20°C to +60°C  
 High Temp Option : Upto 150°C with Temperature Standoff

Series	Max Temp	Insertion Length	Mounting	Extension
CV 120	80°C	190 mm	Side	None
CV 130	80°C	2 mtrs max	Top/Side(0.5 mtrs)	Welded Pipe
CV 140	80°C	2 mtrs max	Top/Side(0.5 mtrs)	Screwed Pipe
CV 150	70°C	6 mtrs max	Top	Flexible Cable

**2 Vibrating Diamond Blade Level Switch for High Temp (250°C)**  
**Series : SHT 120/130/140**

All Specs as in 1 except  
 Max Temperature : -20 to +250°C

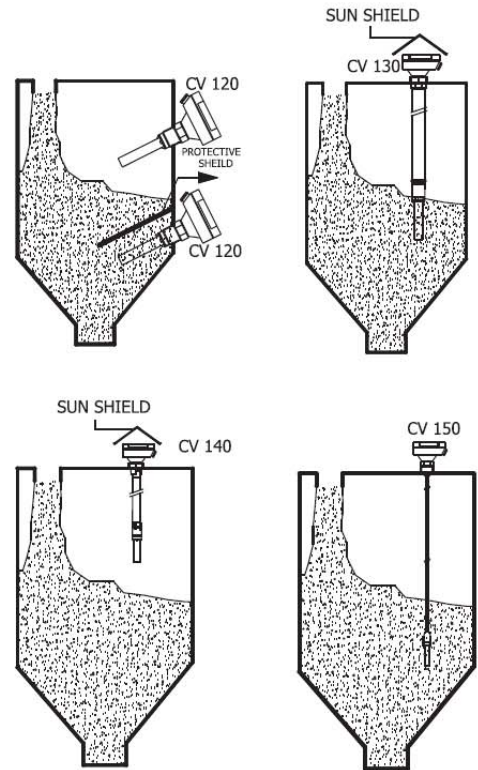
**3 Vibrating Rod Level Switch (Economy Model) Series : CV 600**

All Specs as in 1 except  
 Insertion Length : 157mm  
 Conduit Connection : M16  
 Output : 5A - 250VAC / 30VDC SPDT  
 Resonance Frequency : 460 Hz Approx  
 Process Connection : SS304 x 1" BSPT

**4 Vibrating Rod Level Switch (Economy & Compact Model)**  
**Series : CV 660**

All Specs as in 1 except  
 Enclosure : DIN 43650  
 Power Supply : 24VAC /DC  
 Power Consumption : 1VA  
 Output : 24V (Equal PNP), Max. 625mA  
 Resonance Frequency : 460 Hz Approx  
 Process Connection : SS304 x 1" BSPT  
 Indication : Relay Red LED on Plug  
 Insertion Length : 155mm  
 Min Density : 50gms / lit  
 Max Grain Size : 10mm  
 Max Temperature : Probe -20 to +70°C

**Installation**



**Applications**

- Powdered Milk
- Frozen Potato Chips
- Beans
- Sugar
- Coffee
- Coffee Beans / Ground
- Freeze Dried Coffee
- Peanuts
- Tobacco
- Cement
- Tea Leaves
- Salt
- Flour
- Spices
- Soda
- Pellets
- Gravel
- Animal Food
- Carbon Black
- Foundry Sand
- Chalk
- Styrofoam
- Cellulose
- Glass Ground
- Granular Plastics
- Powdered Clay
- Polystyrene
- Sawdust
- Soot Dry
- Sweets

Series under 1 & 3 can be optionally supplied with Atex 94/9/EC, Group II Cat 1 / 2 D, Zones 20,21,22

**All Models CE Certified, conformity : EMC-Directive 89/336/EWC, Low-Voltage-Directive 73/23/EWC**

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