**MODEL VF**  
**FLAT FACE VIBRATION LEVEL SENSOR**

**Features**
- Suitable for low level detection of middle or large hopper
- Wide range of sensitivity setting
- Fail safe switch is provided
- Accepts a wide range of input voltage

**General Description**
Vibration level sensor VF is to detect presence of powder and granular material at a desired level to send signals utilized for alarm output or control of electromagnetic switches. The vibration plate at the tip of sensor is inserted in the tank to detect the presence of measuring object. Without minimum inserted length and no mechanical moving parts, VF can achieve high durability.

**Operational Description**
The vibration plate has a magnet inside it, and when the pulse magnetic field produced by the electromagnet is applied, the magnet starts vibrating, causing the plate itself to vibrate. The vibration frequency changes when the plate is covered by medium or exposed, and causes the change in voltage at the electromagnet. The voltage change is detected and converted to electric signals to indicate the medium presence at the detection point.
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>VF10-65</th>
<th>VF10-80</th>
<th>VFS10-65</th>
<th>VFS10-80</th>
<th>VFS1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Integral</td>
<td>Sensor</td>
<td>Amplifier</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Measuring Object
- Powder, Granular Material

#### Mounting
- JIS5K65A
- JIS5K80A

#### Supply Power
- 100 to 240V AC ±10% 50/60Hz

#### Power Consumption
- Approx. 4VA (100V AC)
- Approx. 2.5VA (100V AC)

#### Relay Output
- Non-voltage relay contact (SPDT)
- 250V 3A AC / 30V 3A DC

#### Detection Time Delay
- Approx. 2 second for turn on
- Approx. 2 seconds for turn off

#### Operating Temperature
- -20 to 60°C

#### Vibrator Rod
- Vibration rod
- -20 to 100°C

#### Maximum Pressure
- 100 kPa (Static pressure)

#### Maximum Humidity
- 95% RH Max.

#### Sensitivity
- Bulk density of 0.2g/cm³ Min.

#### Material
- Housing: ADC12
- Detection part: 304SS, Silicone

#### Cable Entry
- G3/4
- 3xG1/2

#### Protection
- Housing: IP65
- Detection part: IP68

#### Fail safe
- High or Low by switch

#### Indication
- Green LED for Power status
- Red LED for Relay status

### Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Integral</th>
<th>Separation</th>
</tr>
</thead>
<tbody>
<tr>
<td>VF10</td>
<td>VF10-65</td>
<td>VFS10-65</td>
</tr>
<tr>
<td>65</td>
<td>Flange mounting, JIS5K65A</td>
<td>Flange mounting, JIS5K80A</td>
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</tbody>
</table>

VF10 65 = VF10-65