



Weighing & Automation
CT 106 IO



VIBRATION SWITCH



Prevent damage to your

- Vibrating Screens
- Blowers
- ID Fans
- Motors
- Pumps
- Cooling Towers
- Transformers.... Etc

VIBRATION SWITCH

A certain level of vibration is a part of every system. Due to degradation of moving parts like bearings this vibration level is bound to increase and if undetected can damage the equipment and cause unscheduled breakdowns.

VIBRATION SWITCH does the function of a Watch Dog by monitoring this vibration level and gives a warning or trips the equipment if it goes beyond the set vibration limit.

The IPA VIBRATION SWITCH consists of :

- A piezo electric sensor with built in signal conditioner to convert the vibration level to electrical output.
- A panel mounted control unit to monitor the vibration level and trip or warn the system in case of exceeding vibration levels.

A. Sensor Unit :

Sensor	: Piezoelectric Accelerometer with Integral Charge converter.
Measured parameter velocity	: 20Hz - 200Hz
Frequency range	: (Suitable for machine running at 1200 to 3000 rpm)
Temperature range	: 0 to 50 °C
Power requirement	: 2 mA at 7.2 V.D.C.
Grounding	: Signal return connected to casing
Output connection	: Integral shielded cable with connector
Case material	: Stainless Steel
Mounting (any orientation)	: M-4bolts, 3 Nos.
Weight	: 190 gm
Size	: Base dia 45mm, height 45mm

B. Control Unit:

Model Number	: VS 301AO
Dimension	: 142 x 68 x 200mm
Power supply for Sensor	: 2mA at 7.2V (constant current).
Input	: From sensor through shielded cable (maximum length 300m). Measured parameter
Velocity	: 0.3cm/s to 10cm/s - (0.12"/sec. to 4.9"/sec.)
Trip range	: 0.5cm/s to 10cm/s - (0.2"/sec. to 4"/sec.)
Accuracy of setting	: ± 8% of Full scale
Trip setting	: by Potentiometer on front panel.
Trip output	: 2 pole; NC and NO relay contacts rate for 230V, 5A AC
Initial time delay	: 15 seconds
Time delay from trip level reached to trip output	: 15 seconds
Mains supply	: 90 - 270V, 50Hz.
Protection	: IP50

RANGE OF PRODUCTS

- | | | | |
|------------------------|----------------------------|---------------------------------|--------------------------|
| • Load Cells | • Vibration Meters | • Force Calibrator | • Filling Machines |
| • Pressure Transducers | • Strain Gauges | • Ultrasonic Level Sensor | • Lorry Weigh Bridges |
| • Torque Transducers | • Online Weighing Machines | • Piezo-Electric Accelerometers | • Hook-On Crane Scales |
| • Electronic Scales | • Belt Weighers | • Field Programmable Indicators | • Tele-Crane |
| • Level Sensors | • Weigh Feeders | • Tank/Hopper/Silo Weighers | • Crane Weighing Systems |
| • Trip Safe | • Differential Feeders | | • Batching Systems |
| • Axle Weigh Bridge | • Check Weighers | | • Loss-in-Weight Feeders |

We also undertake development of custom-built systems.



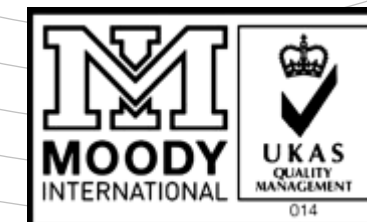
Weighing & Automation

IPA Pvt. Ltd.

472/B2, 12th Cross, IVth Phase, Peenya Industrial Area, BANGALORE - 560 058.
Phone: 2836 0253 / 2836 2851 Fax: (080) 2836 0520 / 2836 0022.

E-mail: ipa@ipaIndia.com / sales@ipaIndia.com

Website: www.ipaIndia.com



IPA/CT 106 IO/11/07/2