

# Cosmotron VVS 300

## Vault and Safe Vibration Detector

Cosmotron VVS 300 is one of the most used and trusted seismic vibration detectors world-wide.

The Cosmotron VVS 300 is a seismic, or structural vibration detector designed to detect attempts to break into vaults, vault doors, safes, and other reinforced areas such as data storage and filing cabinets.



The **Cosmotron VVS 300** provides intrusion detection for all types of solid structures (free-standing or built-in). It sense vibrations that occur within a 3 to 14 meter (10 to 46 feet) radius of where it is mounted, depending on the material and design of the protected object.

The **Cosmotron VVS 300** detector reacts instantly to all known types of attack, such as sledge hammers, diamond head drills, explosives, hydraulic pressure tools and thermic tools. At the same time, it allows for movement around the protected area without creating unwanted alarms

The **Cosmotron VVS 300** features three detectors in one. Signals are processed by all three detectors that analyze the signal frequencies, duration and amplitude, in order to differentiate between random environmental disturbances and real intruder attack.

A multi point tamper sensing system protects the detector against tampering attempts, such as removing the cover, burning or damaging the unit or trying to pry it off the protected object.

The detector is provided with components to fulfil the new standard regarding electromagnetic compatibility.

### Test system

The **Cosmotron VVS 300** is equipped with a test function that is being remotely activated from e.g. the control panel. By different jumper positions you can choose either the internal electronic test of the detector or through the test transmitter **VVT 705** verify a proper function and installation of the vibration detector.



Protects Any Solid Structure

Detects All Known Types of Attack

Remote Test Capability

Advanced Tamper Protection

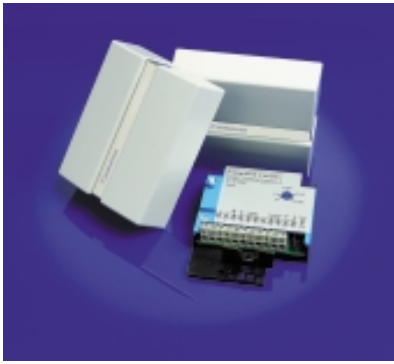
Adjustable Sensitivity

Surface or Recess Mountable

Complete Line of Accessories

Easy to Install

# Cosmotron VVS 300 Vault and Safe Vibration Detector



## SPECIFICATIONS

### Operating Power:

9-15 VDC, nominal 8,6 mA, maximum ripple is 2 volts peak to peak at 12 volts. Option 9 to 30 VDC

### Alarm Output:

Form A solid state relay. Maximum series resistance 35 ohm.

### Tamper Output:

A set of normally closed contacts (rated 0.1 A at 28 VDC) opens when a tampering attempt is detected by the multipoint tamper sensing system.

### Frequency Range:

6 to 20 kHz

### Dimensions, Weight:

Height: 10 mm (3 7/8")  
Width: 08 mm (3 1/8")  
Depth: 33 mm (1-13/6")  
Weight: 290 gr

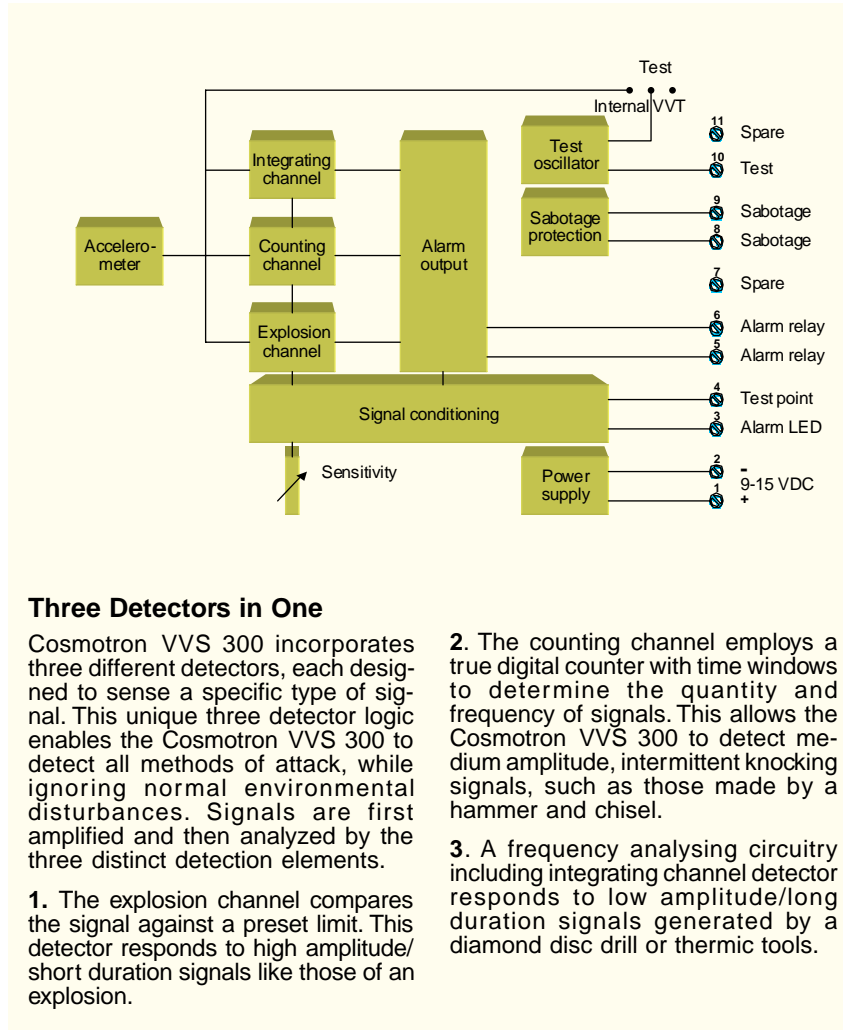
### Environmental Limits:

-20° C to +55° C (operational)  
90% relative humidity at 30° C.  
A sealed model is available for trying conditions.



# Cosmotron

Development and manufacturing of electronic security products



## Three Detectors in One

Cosmotron VVS 300 incorporates three different detectors, each designed to sense a specific type of signal. This unique three detector logic enables the Cosmotron VVS 300 to detect all methods of attack, while ignoring normal environmental disturbances. Signals are first amplified and then analyzed by the three distinct detection elements.

1. The explosion channel compares the signal against a preset limit. This detector responds to high amplitude/short duration signals like those of an explosion.

2. The counting channel employs a true digital counter with time windows to determine the quantity and frequency of signals. This allows the Cosmotron VVS 300 to detect medium amplitude, intermittent knocking signals, such as those made by a hammer and chisel.

3. A frequency analysing circuitry including integrating channel detector responds to low amplitude/long duration signals generated by a diamond disc drill or thermic tools.

## SYSTEM COMPONENTS

### Description

- Safe and vault vibration sensor
- Detector for protection of ATM's and Night Deposit Safes
- Mounting plate
- Recess mount box
- Damp resistant mounting box
- Steel plate for tack welding
- Floor mounting box
- Moveable mounting kit
- Keyhole protection kit
- Spacer for keyhole kit
- 8 conductor armed cable kit
- Tamper resistant metal junction box
- Plastic insert for round conduit
- Plastic double cable insert
- Remote test transmitter. Operates from 12 VDC
- Hand held test unit
- Safe application test sensor

### Product

- VVS 300
- VVS 302
- VVM 300
- VVM 302
- VVM 303
- VVM 304
- VVM 310
- VVM 351
- VVM 352
- VVM 353
- VVM 354
- VVM 355
- VVM 306
- VVM 307
- VVT 705
- VVT 310
- VVT 311

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