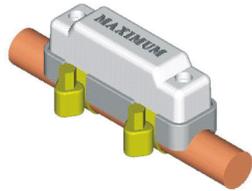


# VIBRA-SENS

Outdoor / Indoor Detector of Vibrations, Shocks and Sawing

## Applications:

Grilles, All Types of Walls, Asbestos Roofs, Safes, Fences & Mesh Netting, Doors, Windows, Standard or Roll-down Shutters, Air Conditioners, Caravan, Parked Motorcycle, or any other object to be protected against being moved or sawed.



## CONGRATULATIONS

We thank you for choosing a product of **MAXIMUM Security (1984) LTD.**

Based on more than 18 years experience in R&D and production of advanced security systems, we are proud to introduce to you a unique detector of Vibration, Shock and Sawing - with unprecedented reliability.

To ensure proper operation and maximum use of all of its features, please read all parts of this Installation and Operating Manual and follow the step-by-step instructions.

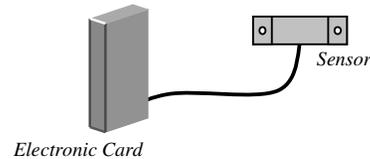
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## FEATURES

- \* Detects Vibration / Shock / Sawing with unprecedented reliability.
- \* Mount only the detector sensor on the protected surface, while the electronic card can be placed in a safe location inside the site.
- \* Alerts in case of attempt to disconnect / short-circuit the sensor or its connecting cable.
- \* Latched memory.
- \* Suitable for installation on any grille type (curved or flat), as well as fences & nets.
- \* Mounting kit for curved grille included.
- \* Fast, easy installation.
- \* Outdoor & Indoor Use.
- \* Calibrated detection sensitivity.
- \* Tamper switch.

## INTRODUCTION

The detector **VIBRA-SENS** consists of two parts: The sensor which is to be firmly attached to the protected surface, and the electronic card which can be placed in a safe location inside the site. A double-wire cable connects the two parts. Once the sensor detects Vibration/Shock or Sawing, the *Alarm Relay* and the *LED* indicator in the electronic card will activate for 2 seconds.

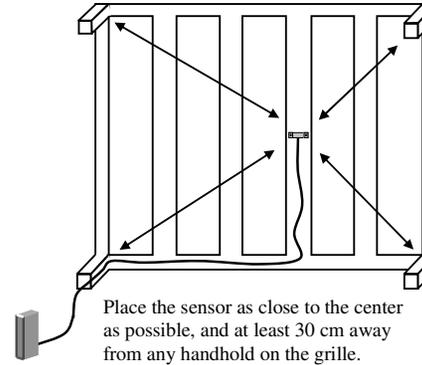


## LATCHED MEMORY

The "Latched Memory" feature enables visual locating of the specific detector that alerted. Thus, right after alerting, the *LED* indicator will blink for 72 hours (3 days) or until a break in the power supply to the detector. While the *LED* indicator blinks, the detector will keep guarding and signal the alarm for any further detection.

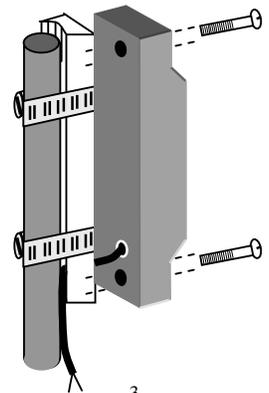
## INSTALLING THE SENSOR

- The sensor should be installed as close to the center of the protected surface as possible.
- If the sensor is mounted on a grille, it should be placed at least 30 cm away from any handhold on the grille.
- **It is important to fasten the detector sensor to the protected surface very securely by screws.**
- It is recommended to install the sensor and its cable in a hidden way, on the internal side of the protected surface, so they will not be seen from outside.

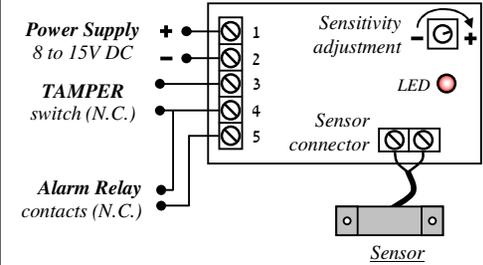


## When the detector sensor is mounted on a curved grille

- For a curved grille use the installation kit provided, consisting of an adapter surface and 2 clips.
- First feed the sensor cable (all the way to the end of the cable) through the adapter surface, and then use the clips to tighten the adapter surface to the grille.
- Tighten the 2 sensor screws and cover the screw heads with the protective caps provided.



## ELECTRONIC CARD DESCRIPTION AND WIRING



## DETECTION SENSITIVITY ADJUSTMENT

1. Make sure that both detector parts (the sensor and its electronic card) were wired correctly, as described.
2. The goal now is to calibrate to optimal detection sensitivity; that is, to adjust to the lowest detection sensitivity – while still maintaining detection capability.
3. On the electronic card, use a screwdriver to turn the detection sensitivity trimmer as far as possible to the right – for maximum detection sensitivity.
4. Knock lightly (twice) on the protected surface, using the screwdriver, at a point as far away as possible from the sensor.

Once it detects the knocks, the *Alarm Relay* and *LED* in the electronic card will activate for 2 seconds.

5. Reduce the detection sensitivity by turning the detection sensitivity trimmer a little bit to the left.
6. Repeat step 4 and 5 until the detection sensitivity is minimal – but at the same time it still detects your test knocks.

## A word about linking the detector to an alarm system control panel

To avoid false alarms. If the protected surface might be affected during the day by shocks or vibrations of appliances or tools operating nearby (for example, an air conditioner), the detector alarm relay output should be connected to "Day" input only.

## SPECIFICATIONS

- \* Power supply..... 8 to 15V DC
- \* Current consumption..... 11mA at 12V
- \* Alarm relay contacts withstand..... 100 mA / 24V
- \* Tamper switch contacts withstand. ... 100 mA / 24V
- \* Type of cable between sensor and its electronic card.....2-wire cable