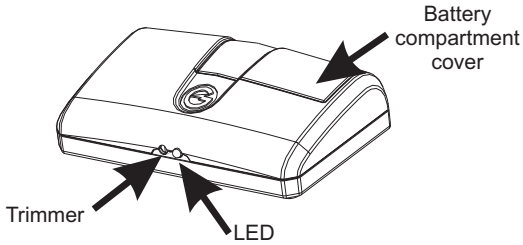
WIRELESS HYPERFREQUENCY VOLUMETRIC SENSOR 259

UK HYPERFREQUENCY VOLUMETRIC SENSOR

The wireless hyperfrequency volumetric sensor provides interior protection for vehicles (cars, trucks, campers, etc.) against theft attempts.
It picks up any moving body inside its operating range and sends a radio alarm signal to the Gemini alarm unit receiver.
This sensor is not sensitive to air movements (open windows).



1.0 - INSTALLATION AND OPERATION

The sensor must be installed in a central location of the area to be protected and secured with the 4 supplied screws.
The sensor code must be previously learned by a Gemini alarm system (see par. "Programming" below).

Make sure the alarm system to be used with the sensor has a built-in wireless radio receiver.

2.0 - PROGRAMMING

To program the sensor to work with an alarm unit carefully follow the instructions given in the manual specifically related to the alarm, paragraph **ADDING NEW DEVICES** (wireless devices or remote controls) and proceed as follows:

- Remove the battery compartment cover.
- Insert the battery as specified in par. 4.0.
- The sensor will immediately send a radio signal of approx. 2 seconds. The LED on the front of the sensor will turn ON to confirm transmission.
- If the code is successfully learned, the alarm unit will generate a signal.
  NB: For the type of signal refer to the alarm unit instruction manual.
- Close the battery compartment cover.

3.0 - OPERATING MODES

The hyperfrequency volumetric sensor integrates a microcontroller to cut power consumption and extend battery life.
Therefore, for low energy consumption, the sensor will operate as follows:

1. <u>Standard mode</u>: in normal operating mode the sensor operates as follows:

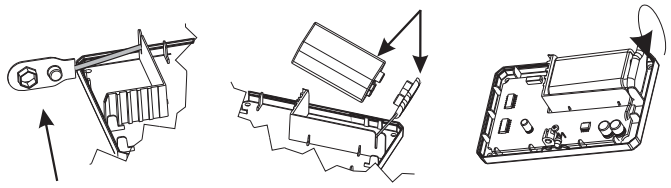
- **PHASE ON:** 15 seconds of monitoring during which unauthorized movements are detected.
- **PHASE OFF:** 4 seconds in standby.

2. <u>Inhibit mode (neutral time between alarm transmisions)</u>: after the sensor sends an alarm signal it goes into inhibit mode for approx. 4 minutes. During this idle time, internal movements within the protected area will not be detected and no alarm signal will be sent to the alarm unit.
Inhibit mode is useful to prevent continuous false alarms and allow freedom of movement while driving or while inside the vehicle.
The sensor auto-resets at the end of the 4 minute inhibit mode and any internal movement will then generate an alarm signal.
The sensor can also be excluded when arming the system.

4.0 - BATTERY

When the battery gets low, the LED on the sensor housing starts to blink during signal transmission.
Replace the battery as follows:

- Remove the battery compartment cover.
- Remove the discharged battery.
- Insert the new one as indicated below taking care not to invert the polarity.
- Replace the battery compartment cover.



Gently pull the battery terminal outwards | Connect the battery | Insert the battery into the battery compartment by turning it inwards

Discard used batteries properly in special dedicated containers.

5.0 - TECHNICAL SPECIFICATIONS

Power supply	9V/6LR61 battery
Standby current	3µA
Operating current	3mA
Average battery life	Approx. 1 year
Detection range	10 m
Operating frequency	2,45 Ghz
Transmission frequency	433.92 Mhz
Overall dimensions	95x60xH27

6.0 - WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) DIRECTIVE

The present device does not fall within the scope of Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE) as specified in art. 2.1 of L.D. no. 151 of 25/07/2005.

7.0 - SENSITIVITY ADJUSTMENT

Once installed, the sensor must be adjusted for suitable sensitivity by using the trimmer on the front of the sensor housing next to the LED indicator.
Adjust the sensitivity level according to the area that needs to be covered.
Sensitivity should be carefully adjusted to prevent triggering unwanted false alarms.

TEST mode activation:

a) Press the button inside the sensor housing and keep it pressed for at least 2".
b) The LED will light up steady for approx. 2", blink and then turn OFF.
c) After the blink, release the button: DIAGNOSTIC mode is ACTIVATED.

Sensitivity adjustment:

To adjust sensitivity, while in TEST mode, turn the trimmer:
a) clockwise => to increase sensitivity
b) counterclockwise => to decrease sensitivity

To test the sensor sensitivity move around in front of it, waiving a hand or other. Make sure the LED turns ON.
NB: There is always a 2" interval between one alarm detection and the other.

Exit TEST mode:

The sensor will automatically exit TEST mode if no activity is detected after 2 minutes.

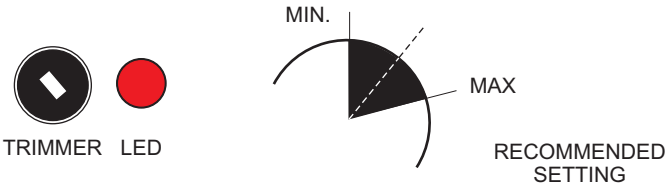
TEST mode deactivation:

a) Press the button inside the sensor housing and keep it pressed for at least 2".
b) The LED will light up steady for approx. 2", blink and then turn OFF.
c) After the blink, release the button: DIAGNOSTIC mode is DEACTIVATED.

STANDARD CABIN

NB: Sensitivity adjustment with sensor positioned horizontally.

MOTORHOME



NB: Sensitivity adjustment with sensor positioned horizontally.

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Made in Italy

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