



## DESCRIPTION

The systems **7463** and **7462** are modular systems which consists of an alarm unit and one audible external siren. These alarm systems can be installed on vehicles with 12V battery with negative to earth.

## FUNCTIONS

### 7463

- Self-powered unit and remote controlled alarm with dynamic code (*frequency 433.92 MHz*).
- Blinker and external siren.
- Negative control for additional siren.
- Central door locking, windows and electric sunroof control (*for vehicles with "Pac-comfort" system*).
- Perimetric, volumetric (*K1 and K2 model*) protection.
- Alarm memory through audible and optical signalisations.
- Remote controlled "PANIC" function.
- Emergency disarming through "PIN" code.
- Accessorial functions programmable with the transmitter.

**7462-** As 7463 not self-powered.

## INSTALLATION INSTRUCTIONS

- **Connect the power wire to the battery positive terminal and the earth directly to the bodywork of the vehicle.**
- **Connect always the alarm GREEN-BROWN wire to the door pin switches.**
- **Connect always the alarm GREEN wire to the bonnet switch.**
- **On catalysed vehicles the engine immobilisation must be carried out on the fuel pump.**
- **If an ultrasonic module is used, the ultrasonic heads must be positioned on the left and right windscreen pillar of the rear windows, turned to the passenger's compartment and away from the facia outlet.**
- **After the electric connections have been carried out, programme the functions through the transmitter and change the manufacturer "PIN" code.**

### WIRING CONNECTIONS

(DISCONNECT THE BATTERY NEGATIVE TERMINAL AND ONLY RECONNECT AFTER THE INSTALLATION IS COMPLETE)

FUNCTION	WIRE COLOUR
Earth	⇒ BLACK initialled "M"
Battery positive terminal	⇒ BLACK initialled "R"
Command for external relays	⇒ 2 x BLACK initialled "H"
Ignition live	⇒ YELLOW
Direction indicator lights	⇒ 2 x ORANGE
Door and boot pin switches	⇒ GREEN-BROWN
Bonnet switch	⇒ GREEN
Positive alarm armed	⇒ PINK
Sensors inlet	⇒ GREEN-BLACK
Negative outlet control additional siren	⇒ YELLOW-BLACK
Central door locking	⇒ YELLOW-BLUE, RED-BLUE, YELLOW-GREY, RED-GREY, YELLOW-BROWN, RED-BROWN
Sound unit	⇒ BLUE and GREY

**NOTE** in the wiring harness there are 2 connectors; connect the 4-pin connector to the ultrasonic or high frequency module and the 2-pin connector to the LED.

The terminals of the Blue and Green wire of the sound unit must be positioned in the White connector of the unit on positions 10 and 20. In the kit there is an extension of the BLACK initialled V wire for the connection of the bonnet button.

## FUNCTIONS PROGRAMMABLE THROUGH THE TRANSMITTER

FUNCTIONS		MANUFACTURER'S PROGRAMMING
1	Arming / disarming audible tones	Activated
2	Panic alarm / Car Finder	Panic activated
3	Current sensor	De-activated
4	Automatic alarm rearming / Automatic locking of the doors	De-activated
5	Passive alarm arming	De-activated
6	CDL pulse time	Selected time 1 second
7	Comfort time	De-activated
8	CDL opening double pulse	De-activated

### INLET IN THE PROGRAMMING PROCEDURE OF THE ACCESSORIAL FUNCTIONS.

Disarm the alarm with the transmitter, open the vehicle's door (keep it opened) and turn the ignition key to **ON**: the LED will switch on for 0,5 seconds.

During this period (led switched on) press at the same time on both transmitter's button.

The confirmation of the programming phase inlet is given by the Led switching on with fix light followed by two acoustic signalling: one with low frequency (BOP) and one with high frequency (BIP).

The system now is in the programming modality and it is waiting for the controls that will be sent with the transmitter's buttons.

### CHANGE OF THE FUNCTIONS PROGRAMMING.

Any selection will be signalled by two different audible tones:

REMOTE CONTROL PUSH BUTTON N°1 : HIGH FREQUENCY AUDIBLE TONE (BIP). TO SET ON THE CURRENT FUNCTION AND SELECT THE NEXT ONE.

REMOTE CONTROL PUSH BUTTON N°2 : LOW FREQUENCY AUDIBLE TONE (BOP). TO SET OFF THE CURRENT FUNCTION AND SELECT THE NEXT ONE.

ARMING / DISARMING AUDIBLE TONES	Push Button N° 1: Set ON
	Push Button N° 2: Set OFF
PANIC ALARM / CAR FINDER	Push Button N° 1: Panic set ON Car finder set OFF
	Push Button : Panic set OFF Car finder set ON
CURRENT SENSOR	Push Button N° 1: Set ON
	Push Button N° 2: Set OFF
AUTOMATIC ALARM REARMING / AUTOMATIC LOCKING OF THE DOORS	Push Button N° 1: Set ON
	Push Button N° 2: Set OFF
PASSIVE ALARM ARMING	Push Button N° 1: Set ON
	Push Button N° 2: Set OFF
CDL PULSE TIME	Push Button 1: 6 seconds
	Push Button 2: 1 second
COMFORT TIME	Push Button N° 1: Set ON
	Push Button N° 2: Set OFF
CDL OPENING DOUBLE PULSE	Push Button N° 1: Set ON
	Push Button N° 2: Set OFF

## OUTLET FROM THE PROGRAMMING PROCEDURE OF THE ACCESSORIAL FUNCTIONS.

It is possible to leave any moment the programming procedure turning the ignition key to OFF. In this case it is obtained the memorisation of the condition for the changed functions and the confirmation of the previous condition for the unchanged functions.

Otherwise, if the procedure is carried out for all the functions described in the table, at the end of the programming of the last function (double pulse while opening), the system will automatically leave the procedure.

In both above-mentioned situations the abandonment of the programming procedure is signalled by two audible signalling with low tone (BOP) and by one signalling with high tone (BIP) followed by the Led switching off.

## WORKING DESCRIPTION

### ALARM ARMING

Press on the transmitter's rough button (*button 1*). The arming is signalled by one flashing of the direction indicator lights and one audible high tone (*BIP*). The emission of the audible signalling is subordinate to the programming condition of the accessorial function "AUDIBLE SIGNALLING".

Besides the activation of the optic/acoustic signalling at the same time activates also the locks closure control (with the time set in the programming phase of the accessorial functions) and the activation of the following functions:

- 1) INTERNAL BATTERY (7463)
- 2) MODULES OUTLET (PINK WIRE).
- 3) LED OUTLET.
- 4) ENGINE IMMOBILISATION.

**NEUTRAL TIME OF ACTIVATION – EXTERNAL SENSOR EXCLUSION – WINDOWS CLOSURE LOCKING –COMFORT.**  
The neutral time of activation has a length of about 45 seconds and it is signalled from the Led switching on with fix light. During the first 25 seconds of neutral time of arming it is possible to exclude the external sensors and to stop the vehicle's windows raise pressing on the transmitter's 2 button (the windows closure is subordinate to the installation of a power windows module or to the comfort function on the vehicle).

**NOTE: THE EXCLUSION OF THE SENSORS AND OF THE WINDOWS RAISE IS LIMITED TO ONLY ONE ARMING CYCLE OF THE ALARM.**

### EXCLUSION OF THE SIREN SOUND

To isolate the siren sound and allow the alarm signalling only through the direction indicator lights it is necessary to follow this procedure:

- a. With the system disarmed, turn the ignition key to ON – the led switches on for 0,5 seconds.
- b. During these 0,5 seconds press on the transmitter n. 2 button – the led will switch off immediately. The siren and the additional external siren will be excluded for the next arming cycle of the alarm system.

To activate again the alarm audible signalling it is sufficient to disarm and to arm again the alarm system.

### SYSTEM ARMED AFTER THE INHIBIT TIME.

At the end of the neutral time of arming (about 45"), the security system is completely armed and it is ready to intervene if a sabotage or a theft attempt occurs. The condition of alarm completely armed is signalled through the signalling Led, which in order to guarantee a low current consumption is controlled with the following timing:

**LED ON: 200MS**  
**LED OFF: 4"**

## THE EVENTS WHICH COULD TRIGGER THE ALARM ARE THE FOLLOWING:

- a) CUT THE SYSTEM'S WIRES.
- b) ATTEMPT TO START THE VEHICLE'S.
- c) CURRENT ABSORPTION (Function to be activated in the programming phase of the accessorial functions).
- d) ATTEMPT TO OPEN THE DOOR / REAR BOOT.
- e) PANIC ALARM – press on the transmitter's n.2 button. (Function to be activated in the programming phase of the accessorial functions).
- f) BONNET OPENING.
- g) EFFRACTION OF THE VEHICLE SIGNALLED THROUGH AN EXTERNAL SENSOR.

### ALARM CYCLE

The alarm cycle consists of the activation of the siren (if not previously excluded) and the flashing of the direction indicator lights of the vehicle (with timing 0,5" ON – 0,5" OFF) for a maximum of 30". If the siren sound has been excluded, the alarm will signal the alarm triggering with the direction indicator lights flashing for a maximum of 30".

NOTE: During the alarm signalling the led will light fix.

It is possible to stop the alarm cycle, without disarming the system, pressing on the transmitter's n.2 button. In this condition the optical / audible signalling stops and the system is in the "NETURAL TIME BETWEEN FOLLOWING ALARM" condition.

In order to set a limit to the acoustic pollution, the DOOR PIN SWITCH, ABSORPTION SENSOR and EXTERNAL SENSORS inlet has a limitation to 5 alarm cycles for each period of the system arming. The count resets at the following disarming of the alarm system.

NOTE: THE IGNITION LIVE INLET AND THE CUT WIRES FUNCTION DO NOT HAVE ALARM LIMITATIONS.

### NEUTRAL TIME BETWEEN FOLLOWING ALARMS

AT THE END OF EACH ALARM CYCLE THERE IS A NEUTRAL TIME (ABOUT 5") WHERE THERE WILL BE ANY REACTION TO THE ALARM TRIGGERING CAUSE.

DURING THE NEUTRAL TIME BETWEEN FOLLOWING ALARMS THE SIGNALLING LED WILL SWITCH ON WITH FIX LIGHT, THE BEGINNING OF THE NORMAL FLASHING IS GIVEN AT THE END OF THE NEUTRAL TIME.

### ALARM SYSTEM DISARMING

The alarm can be disarmed pressing on the transmitter n.1 button (or through the PIN-CODE emergency procedure).

Following this operation it is possible to have two different types of confirmation signalling.

**DISARMING WITHOUT ALARM TRIGGERING CAUSE:** if the system does not have detected any theft attempt or effractions will give one optical / audible signalling which consists of three flashings of the direction indicator lights and three audible signalling with high tone (BIP).

**DISARMING WITH ALARM TRIGGERING CAUSE:** if the system has detected one or more theft attempts or effractions will give one optical / audible signalling which consists of 5 flashing of the direction indicator lights and 5 audible high tone (BIP), followed (after an interval of about 2 seconds) by the indication of the last alarm triggering cause detected (ALARM MEMORY). The indication of the last alarm triggering cause consists of one differentiated optical / audible signalling.

- 1) **ALARM FOR CURRENT ABSORPTION:** 1 flashing of the direction indicator lights, of the Led and 1 audible signalling with low tone (BOP) at the same time of the optical signalling.
- 2) **ALARM FOR STARTING ATTEMPT:** 2 flashing of the direction indicator lights, of the Led and two audible signalling with low tone (BOP) at the same time of the optical signalling.
- 3) **ALARM FOR DOOR OPENING:** 3 flashing of the direction indicator lights, of the Led and 3 audible signalling with low tone (BOP) at the same time of the optical signalling.

4) **ALARM FOR CUT WIRES:** 4 flashing of the direction indicator lights, of the Led and 4 audible signalling with low tone (BOP) at the same time of the optical signalling.

5) **ALARM FOR EXTERNAL SENSORS/BONNET:** 5 flashing of the direction indicator lights, of the Led and 5 audible signalling with low tone (BOP) at the same time of the optical signalling.

**NOTE: if the “AUDIBLE SIGNALLING” are de-activated, (during the programming of the accessorial functions) are given only the optical signalling with the above-mentioned modalities.**

## ACCESSORIAL FUNCTIONS

Besides the accessorial functions previously described, see “EXTERNAL SENSORS EXCLUSION / POWER WINDOWS LOCKING / COMFORT” and “SIREN SOUND EXCLUSION” are available the following programmable accessorial functions:

a)	SELF-REARMING ACTIVATION
b)	ALARM PASSIVE ARMING
c)	PANIC ALARM / “CAR FINDER”

### SELF-REARMING ACTIVATION

This function, when activated, determine the automatic arming of the alarm system if, after the alarm arming, there are not voluntary actions on the vehicle from the user (DOOR OPENING or STARTING OF THE VEHICLE'S ENGINE) within 45”.

The function avoid leaving the vehicle without protection, when, after the arming of the system the transmitter n. 1 button is pressed unintentionally and the system is disarmed.

The optical / audible signalling described in this document show the automatic arming of the alarm.

**The activation of the self-rearming involve the activation of the central door locking control: therefore, to avoid involuntary activations of the alarm system it is COMPULSORY to connect the button of the driver's side door to the appropriate inlet of the alarm system.**

NOTE: the emission of the audible signalling is subordinate to the activation of the same during the programming phase of the accessorial functions.

### AUTOMATIC LOCKING AND UNLOCKING OF THE DOORS

The function is activated only if the zalet function is choosen.

After 20 seconds from the starting of the vehicle engine (or only turning the ignition in On position) the doors will be automatically closed.

After 2 seconds from the switching OFF of the vehicle engine (or turning the ignition key in OFF position) the doors will be automatically opened.

If during the starting of the engine, or during the first 20 seconds before the closure of the doors a door is left opened or it is opened the automatic closure will be inhibited. The function will be activated only after the switching OFF and on of the vehicle engine. With this function it is mandatory to connect the door pin switch OFF the driver door to the right inlet of the alarm system.

### SYSTEM PASSIVE ARMING

This function, if activated, determines the automatic arming of the alarm system 45” after the engine of the vehicle switching off. (The automatic arming of the alarm is signalled with the optical / audible signalling described in this document).

The activation of the ALARM PASSIVE ARMING procedure is signalled (while the vehicle's engine switching off) through 1” flashing of the direction indicator lights and two flashing of the Led with the contemporary emission of two audible signalling with high tone (BIP).

During the interval between the activation of the ALARM PASSIVE ARMING and the real activation of the protection system it is possible to stop temporarily the procedure of activation of the protection

system opening the DRIVER'S DOOR. This allows the user to operate in the vehicle without obtaining the arming of the system.

This condition of pause is signalled through the led lightning fix. The led switching off is obtained closing the vehicle's door.

NOTE: the emission of the audible signalling is subordinate to the activation of the same during the programming phase of the accessorial functions.

### PANIC ALARM / “CAR FINDER”.

The PANIC ALARM function, if activated, allows the user to activate the alarm optical and audible signalling pressing on the transmitter n. 2 button.

The function is activate independently from the system arming / disarming condition. The alarm signalling has a length less or similar to 30”; anyway it is possible to stop the signalling in every moment pressing again on the transmitter's n. 2 button.

Between a PANIC ALARM cycle and the following there is a neutral time of 5” where there are not possible further activations of the alarm signalling.

During the alarm signalling and the neutral time the led is switched on with fix light.

**IF DURING THE PROGRAMMING PHASE THE PANIC FUNCTION HAS BEEN DE-ACTIVATED, THE “CAR FINDER” FUNCTION WILL ACTIVATE.**

**THE “CAR FINDER” FUNCTION ALLOWS WITH ALARM ARMED, TO OBTAIN A BRIEF OPTICAL / ACOUSTIC SIGNALLING PRESSING ON THE TRANSMITTER N. 2 BUTTON. THIS FUNCTION IS USEFUL TO LOOK FOR THE VEHICLE IN PARKING WITHOUT CAUSING UNUSEFUL CONDITIONS OF ACOUSTIC POLLUTION .**

**THE BRIEF OPTICAL / ACOUSTIC SIGNALLING CONSISTS OF THE EMISSION OF ONE LOW CHIRP (BOP) AND THE DIRECTION INDICATOR LIGHTS FLASHING (SIGNALLING OF 1 SECOND).**

**NOTE: the emission of the audible signalling is subordinate to the activation of the same during the programming phase of the accessorial functions.**

## LEARNING TRANSMITTERS CODE.

With this system it is possible to learn 4 transmitters with changeable code. The code of these devices is memorized in the EEPROM system through a simple learning procedure.

**If the peripheral devices of the security system have been perfectly connected (DOOR and BONNET pin switches), it is possible to carry out the learning of the codes without intervene directly on the alarm unit. This allows a simplification of the operations with a reduction of the intervention time.**

NOTE: to activate the learning procedure (with the PASSIVE ARMING PROCEDURE de-activated) it is necessary to disarm the system with a transmitter or through the emergency PIN-CODE.

If the system is in the ALARM PASSIVE ARMING procedure it is necessary to arm and then to disarm the system with a working transmitter (or to wait the end of the passive arming activation and then to disarm the system introducing the emergency PIN-CODE).

### Learning activation:

- 1) To open, **and keep opened**, the driver's door of the vehicle.
- 2) To open, **and keep opened**, the bonnet of the vehicle (obviously, the protection button must be connected to the alarm system).
- 3) Turn the ignition key to ON.  
The system signals the inlet in the learning function with a series of optical / audible signalling which consists of one flashing of the direction indicator lights and one audible high tone (BIP), one flashing of the direction indicator light and one audible low tone (BOP).
- 4) Press one button of the transmitters to learn. The system will confirm the memorisation of the device with a high audible tone (BIP) and one flash of the led simultaneous to the audible signalling.
- 5) For all devices to learn with the alarm system it is necessary to carry out the operations from point 4 (max. 4 transmitters).

### Learning de-activation:

To stop the learning, (after point 5), it is necessary to close the DOOR and the BONNET of the vehicle and to turn the ignition key to OFF. The system will signal the outlet from the learning procedure with an optical / audible signalling which consists of one audible low tone (BOP) and one flashing of the direction indicator lights.

**NOTE:** the alarm system, for working security reasons, has not a procedure to erase the devices previously memorised. Therefore, in case of loss or theft of the transmitters it is necessary to learn 4 new devices to be sure that the previously memorised devices have been eliminated.

### EMERGENCY PIN-CODE.

This alarm system has a PIN code for the emergency disarming if the transmitters are not working. The PIN code consists of 4 numbers between 1 and 9.

**The manufacturer PIN code is:**

**1 - 1 - 1 - 1**

It is possible through the following procedure to modify the manufacturer's PIN code.

### PERSONALIZATION OF THE EMERGENCY PIN CODE

To personalize the emergency PIN code it is necessary to have the vehicle's ignition key and one working transmitter.

Suppose for example to personalize the PIN code with the numbers 4-3-2-1.

Follow these operations:

- 1) Disarm the alarm system with a working transmitter.
- 2) Open and keep opened the driver's door and turn the ignition key to ON.
- 3) The Led of the alarm will switch on for 0,5 sec. During this period press at the same time on both transmitter's button.
- 4) The system enters the "PROGRAMMING" modality. This condition is signalled by two low tones (BOP) and the led of the alarm switching on with fix light.
- 5) Close and keep closed the driver's door then press again on both transmitters' buttons.
- 6) The Led switches off and the alarm system will enter the modality of "MODIFICATION OF THE PIN CODE".
- 7) Turn the ignition key to OFF. 3 seconds after this operation is given the activation of the first series of 9 flashing of the led.
- 8) To introduce the first number, which in the example is 4, turn the ignition key to ON for at least 1 second at the end of the fourth flashing of the led.
- 9) About 3 seconds after the introduction of the first number is given the activation of a second series of 9 flashing of the Led.
- 10) To introduce the second number, which in the example is 3, turn the ignition key to ON for at least 1 second at the end of the third flashing of the Led.
- 11) To introduce the third and the fourth number that in the example are the numbers 2 and 1, repeat the operations described on points 7, 8, 9, 10, remembering to turn the ignition key to ON for at least 1 second at the end of the second and the first flashing of the Led.
- 12) After the introduction of the fourth number the system will automatically leave the programming modality. The operation is signalled by a series of three audible tones.

**NOTE: IT IS ADVISABLE TO NOTE THE NEW PIN CODE IN A SAFE PLACE IN ORDER TO FIND IT EASILY IN CASE OF NEED.**

**IF DURING THE INTRODUCTION OF THE NEW PIN CODE A MISTAKE IS MADE IT IS POSSIBLE TO REPEAT THE PROCEDURE IN ORDER TO MEMORISE THE CORRECT VALUE OF THE NUMBERS.**

### DISARMING / EMERGENCY PROCEDURE WITH PIN CODE.

This procedure is necessary when the alarm system is armed and the transmitters supplied are not working. This procedure can be activated only and exclusively during the neutral time of 5 seconds between one alarm signalling (siren sound and direction indicator lights flashing of 30 seconds) and the next.

To activate the procedure it is necessary to have the vehicle's ignition key and the PIN code with 4 numbers. The PIN code with four numbers may be the one set by the manufacturer (numbers 1-1-1-1), or the one personalized from the user (with the appropriate procedure).

### SYSTEM DISARMING DURING THE ALARM CYCLE

- 1) Wait the end of the signalling of the alarm cycle and enter the vehicle's passenger's compartment.
- 2) The system now is in the neutral time of 5 seconds between an alarm signalling and the following (Led switch on with fix light). In this condition turn the ignition key to ON for at least 1 second and then to OFF.
- 3) The system will switch off the Led in order to signal the beginning of the procedure of activation of the PIN code.
- 4) About 3 seconds after the Led switching off is given the activation of a series of 9 flashing of the Led. Leave the Led flashing for a number corresponding to the value of the first number of the PIN code and, at the end of the flashing that corresponds to the number, turn the ignition key to On for at least 1 second and then to OFF.
- 5) When the first number is confirmed after the interval of 3 seconds a second series of 9 flashing of the Led is given. Also in this case it is necessary to confirm the second number of your PIN code turning the ignition key to ON (for at least 1 second) at the end of the flashing, which corresponds to the value of the second number of the PIN code.
- 6) To introduce the third and the fourth number it is sufficient to repeat the operations described on point 4 or 5 of this procedure.
- 7) If the PIN code is correct at the confirmation of the fourth number the system disarms and this operation is signalled through the optical /audible signalling.

If the code has not been correctly introduced at the confirmation of the fourth number, one signalling of 30 second is given. Now to introduce the PIN code it is necessary to repeat the procedure from point 1.

If during one of the series of 9 flashing of the Led none of the numbers is confirmed, at the end of the ninth flashing the system will come back in the protection phase with the alarm signalling. Also in this case to introduce the PIN code it is necessary to repeat the procedure from point1.

TECHNICAL DATA	
Nominal power supply	12VDC
Range power supply	9Vdc ÷15Vdc
Current absorption @ 12Vdc	Less than 2 mA with system armed and flashing led
Power piezoelectric siren	118 dBA typical @ 1meter
Radio receiver	433.92MHz – superrigenerative receiver with low consumption
Transmitters	433.92MHz – stabilized with SAW filter
Outlet auxiliary (PINK wire) current 12V	Max 10 mA
Blinker relay contact capacity	Max 10 A – protected by fuses to install
Back-Up battery capacity	150mAh – with voltage 7,2V
Siren outlet current capacity	3 A – protected with PTC integrated to the circuit

### ULTRASONIC MODULE DESCRIPTION

#### GEMINI ref. 5123 (K1 models)

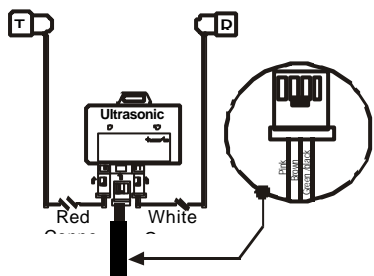
The ref. 5123 is an module with ultrasonic waves that protects the vehicle, detecting the door opening , the windows braking or the movements inside the passenger's compartment and with a control activates the alarm.

#### FITTING INSTRUCTIONS.

Connect the ultrasonic module to the alarm system wiring harness then put the connectors of the ultrasonic cells in the suitable socket: RED for the TX cell and WHITE for the RX cell.

#### SENSITIVITY ADJUSTMENT.

- Lower one of the front windows (approximately 20-cm).
- Adjust the ultrasonic sensor sensitivity to a minimum level.
- With the doors completely closed, arm the alarm pressing twice on the transmitter 2 button.
- Put one hand through the open window and move it. If the sensitivity has been properly adjusted the red LED of the module switches on; otherwise, it is necessary to increase the sensitivity and to repeat the operation.



TECHNICAL DATA	
Working Voltage	9÷16VDC
Current absorption	2,5 mA
Working temperature	-30°C +85°C

### DESCRIPTION OF THE 7059 MODULE (K2 models).

**GEMINI 7059** protects the vehicle detecting attempts to break into the passenger's compartment by the emission of an electromagnetic field (frequency = 2,45 GHz).

The working of the sensor is based on the reflection of the electromagnetic waves when an object, made of a conductive material (metal or body), is located on the field.

The measurement of the reflected waves detects the intrusion and then triggers the alarm system connected to the sensor.

The sensor Gemini 7059 is insensitive to air movements (wind, thermal air drift, etc.), for this reason it's suitable to be fitted on pick-up vehicles, convertible cars and vehicle equipped by a sliding sunroof. Due to the fact that the insulating materials are transparent to the electromagnetic waves it's possible to fit the sensor module in a hidden position, e.g. under the passengers compartment carpet.

#### FITTING INSTRUCTIONS.

Install the sensor in the best fitting position depending on the vehicle model.

It is important to underline that, the complete protection of the vehicle passenger's compartment cannot be obtained using a high-frequency sensor.

Adjust the sensitivity in order to avoid false alarm triggering, due to moving objects outside the vehicle (people, vehicles or motorbikes). To prevent false alarm triggering it is necessary to avoid fixing the sensor under the glove box or near the coin holders and metal moving objects in the passenger's compartment. Install the sensor Gemini 7059 under the covering of the rear seat (turned to front side of the vehicle), under the dashboard or next to the roof light (under the covering of the vehicle roof).

#### ELECTRIC CONNECTIONS.

Use the connector supplied for the connection to the alarm system.

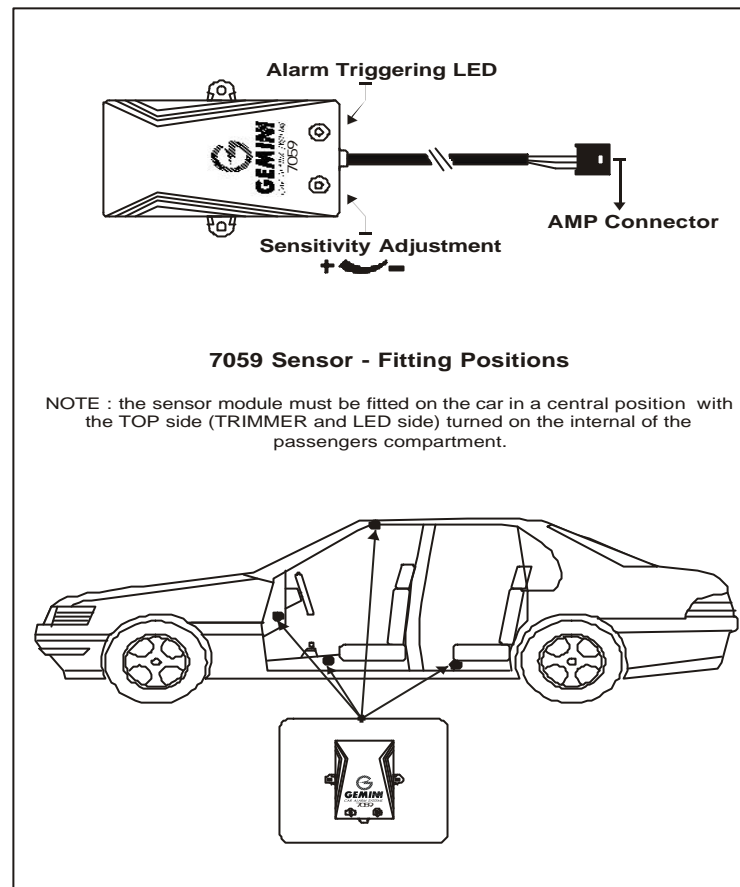
#### SENSITIVITY ADJUSTMENT.

The sensor 7059 is supplied with a Trimmer to adjust the sensitivity from a Minimum value (not zero) to a Maximum value and a Red LED which lights fix for 4 seconds at each detection of the module.

(NOTE: between an alarm condition and the following there is a delay time of 4 seconds).

#### Adjustment procedure:

- 1) Set the adjustment TRIMMER to the MAXIMUM value (fully clockwise).
- 2) Close all doors, windows, boot /bonnet and arm the alarm unit. Wait till the end of the arming delay time or set the DIAGNOSTIC function.
- 3) Move the hands near the windows (lateral, front and rear) to verify that the sensor 7059 does not trigger the alarm.
- 4) If the alarm triggers, adjust the sensitivity turning the Trimmer anti- clockwise and repeat the operation from point 3.
- 5) If the test is positive (without alarm triggering while moving the hands near the windows), disarm the alarm unit and open one of the front windows.
- 6) Arm the alarm unit again or set on the DIAGNOSTIC MODE verifying that moving an arm inside the passenger's compartment will trigger the alarm.



#### TECHNICAL DATA.

EM Field Frequency	2,45GHz ±2,45MHz
Operating Temperature	-40°C ÷ +85°C
Alarm Triggering pulse Negative	4 sec.
Operating Power Supply	10 ÷ 15VDC
Current Consumption	≤ 5mA

*This device is guaranteed against construction or working faults for 24 months from purchase date. The manufacturer declines every responsibility for any possible defect or failure to the device and to the vehicle's electric system due to incorrect installation or to the alteration of the indicated Technical Features.*