

Adding Additional Sensors

Alarm sensors usually require a positive and ground wire for power, and have one or two outputs for triggering the alarm. If you want to connect multiple sensors to the same input you can just join the like wires together.

MICROWAVE SENSOR:

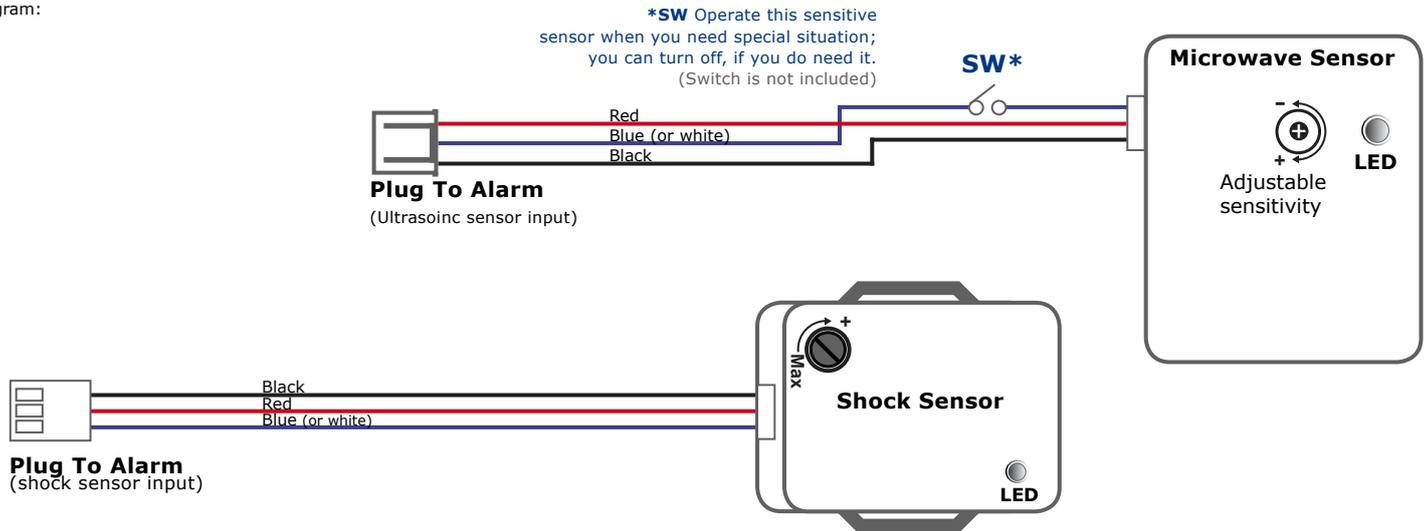
Microwave fields are not effected by movement of air or heat, so allowing ventilation through the vehicle will not cause false alarms. The ideal location to mount a microwave sensor is in the centre of the car, under the centre console (as long as not obstructed by metal objects). Microwaves will go through fabric, plastic, wood and glass, but not metal. Start by setting at maximum sensitivity and get away from the car (shut all doors and roll up windows). Start walking towards the car. If the alarm goes off before you even get to the car, then make it less sensitive. It will take a lot of tries to get sensor set in the "perfect" position. Once you limited the field to the inside of the car, double check by running your arms across the roof, sides, etc.

ULTRASONIC SENSORS:

Ultrasonic sensors consist of a control box and two ultrasonic heads that are mounted on the A pillars either side of the windscreen using the included clips. Ultrasonic sensors require a rigid, stable perimeter with no air movement so are not suitable for convertibles as the roof will not reflect sound waves and soft-top roof's will move when battered by wind.

CONNECTING MULTIPLE SENSORS:

On alarms you can connect multiple sensors to the alarm by just connecting all the like coloured sensor wires together, eg. Red to red, Black to black, Blue to blue etc. See the below diagram:



ULTRASONIC SENSOR

An Ultrasonic sound sensor employs the same theory as the microwave sensor but by the use of **sound** instead of microwaves. The ultrasonic sound sensor waits for an **ultrasonic echo** reflected off a body entering within its range. Ultrasonic Sensors are alternative for microwave radar sensor, for use with your car alarm. The ultrasonic sensor kits Works by monitoring air-pressure levels. The act of opening a door or forcing a window creates a change in pressure which triggers the alarm..

Two sensors are provided and fitted on each side of the front of the vehicle and pointed towards the rear.

- Simply fit a sensor to each side of the windscreen using the spring clips supplied.
- Fully Adjustable Sensitivity
- Negative Trigger Output
- Compatible with any alarm with a negative trigger input

Dimensions:

- Unit: 6.7cm x 6.0cm x 1.5cm
- Connector cable length: 190cm
- Sensor cable lengths: 240cm
- Size of sensors: diameter 1.7cm
- All above dimensions are approximate.

Specification:

- Frequency: 40Khz Crystal Locked
- Standby current: 6mA +/-2mA
- Max. trigger output current: 100mA
- Input voltage: 9v Min., 15v Max.

Package Contents:

- Main Unit
- 2x Ultrasonic Detectors
- Cable to connect to alarm
- Instructions

Transmitter location (sensor):

When locating the sensors ensure the distance between the two sensors is not less than 20cm Refer to Fig.1 which shows suggested locations for mounting the sensors.

Ensure the sensors are not installed where:

- Direct sunlight may hit the sensors.
- Close to air cents in the vehicle.
- The position where worn seals in the vehicle may allow strong air movement to enter.
- Ensure that the sensors are secured tightly; any movement of the sensor due to vibrations will cause the sensors to trigger.

Note: To achieve maximum detection area it is recommended that the sensors are placed as high possible near the sun visor. This will allow the signal to reach of the vehicle without obstruction from the front seats or head rests.

Control Module Location:

Place the control module in a suitable location underneath the dashboard.

Wiring

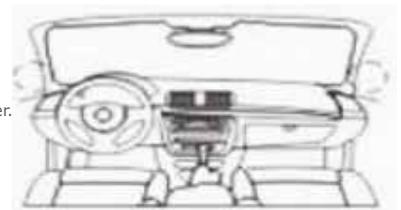
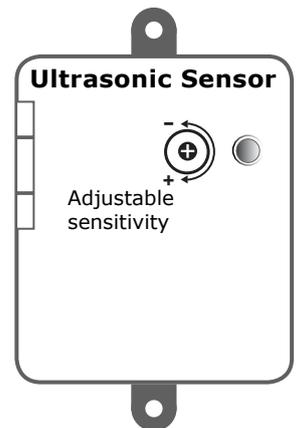
- Red wire: (+) 12volts
- Black wire: (-) Connect to ground
- White OR Blue Wire: Connect to instant trigger Aux-negative input of alarm, (Alarm) trigger OR (Warning) trigger (negative)

Testing:

Once installation is complete close all doors windows, lower the rear window and wave your hand inside the vehicle and check for operation.

Sensitivity Adjustment:

When adjusting the sensitivity level turn the adjustment in small turns each time.



MICROWAVE SENSOR

Microwave (Radar) sensors uses **microwaves** to trigger the system. It sends out the microwave radio energy into its path and waits for an object to reflect the energy back into it. MRS01 is a new generation, microwave based proximity sensor module. Protects your car cockpit and is mainly used on convertible cars or motorcycles, detecting any intrusion attempts.

The MRS01 **detect any movement** around the sensor. It is immune to the temperature, sounds and wind variations that cause false detections

INSTALLATION:

Fit the MRS01 with its backside always pointed on the metal part of the car. Avoid the presence of any metal objects between the module itself and the area to protect.

The high frequency generated by the module, emitted on the front part can easily go through any surface (plastic covers, dashboard, windows, chairs, etc), metal parties excluded.

Wiring

RED: (+) 12volts

BLACK: (-) Connect to ground

BLUE or White: Connect to instant trigger Aux-negative input of alarm

ADJUSTING:

A correct adjusting is very important in order to avoid any false alarm. The sensitivity trimmer can be reached through the hole on the bottom side of the module. When testing the sensor, always wait at least 7 seconds delay time, the sensor need this amount of time to re-establish the protective filed.

WARNING: We declines all responsibilities arising from an incorrect use of this system, from an irregular functioning of it and from possible tampering of the product and from the exceeding of its technical features.

Rightclick reserves for itself the right to make changing on the item in order to improve it, whenever and wherever it is considered advisable, without any notice.

SHOCK SENSOR

- The included shock or impact sensor is designed to detect various degrees of impact to the vehicle during a break-in attempt.
- The shock sensor should be securely mounted underneath the dash or center tunnel area.
- For increased sensitivity make sure the sensor is securely fitted directly to solid metal. If this is too difficult, it can be cable tied directly to the steering column (making sure not to interfere with the steering functionality) or wiring harness bundle but it will be less sensitive to shocks from the rear of the car.
- Avoid mounting it in the way of any moving parts or relays.
- Avoid mounting it near any heat sources.

INSTALLATION:

Mount the sensor in a position where it will be able to detect knocks to the vehicle, ideally this should be as central to the vehicle as possible and attached to a solid part of the vehicle.

Wiring

Red: (+) 12volts

Black: (-) Connect to ground

Blue: Connect to instant trigger Aux-negative input of alarm
(Alarm) trigger OR (Warning) trigger (negative)

Adjustment:

Turn the black dial on the sensor anti-clockwise to decrease sensitivity and clockwise to increase sensitivity, the LED will light to indicate activation.

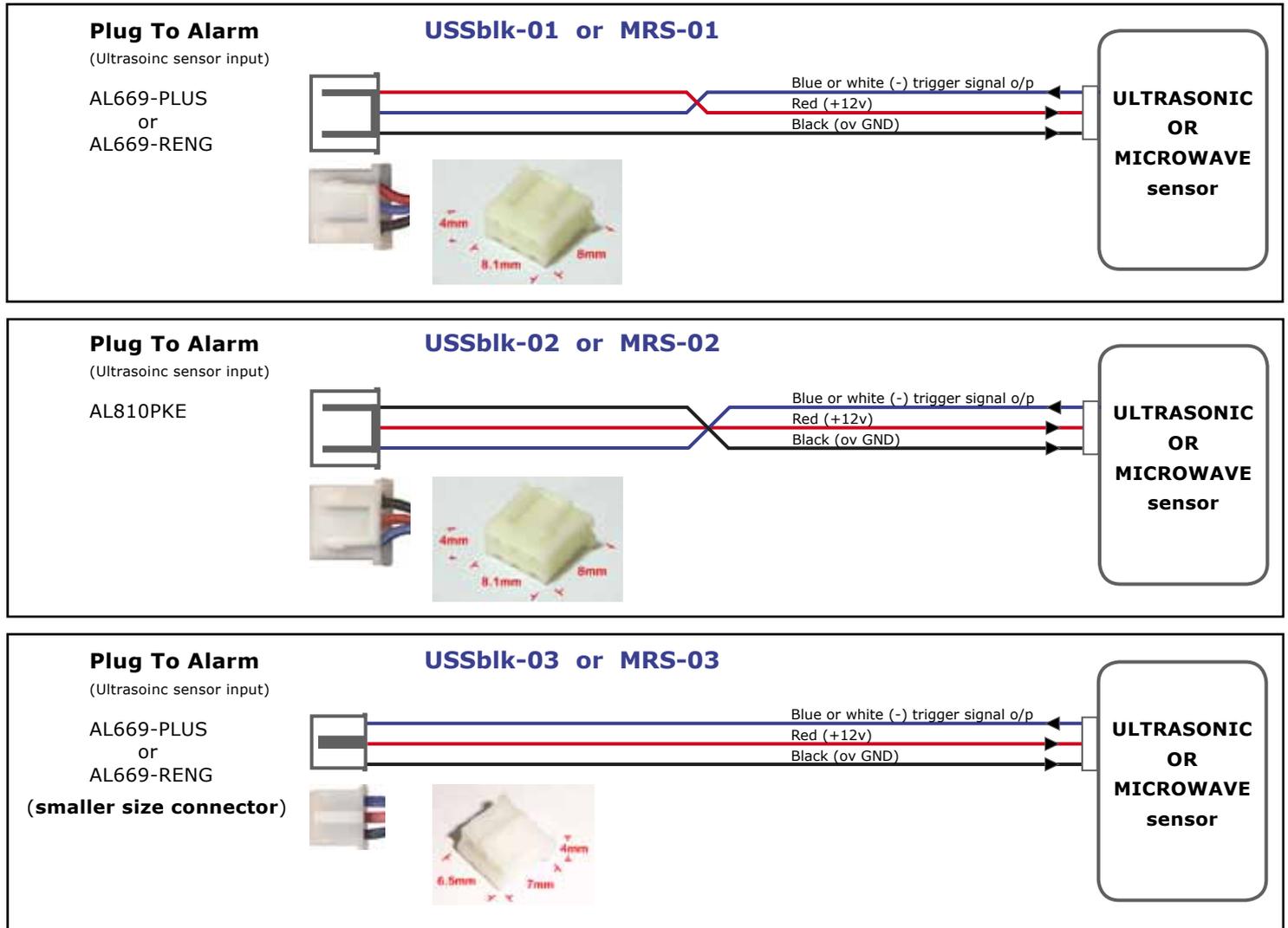
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Ultrasonic and Microwave - car alarm Connector Types:

Ultrasonic sensors for car alarms works the same! , only difference is the size of the connector and wire colours.

If your alarm has the same connector (as in the pictures below) but different wiring colours! by swapping the wires around you can match the wires to your alarm.. See the wiring colours below for variuos types of alarms:



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