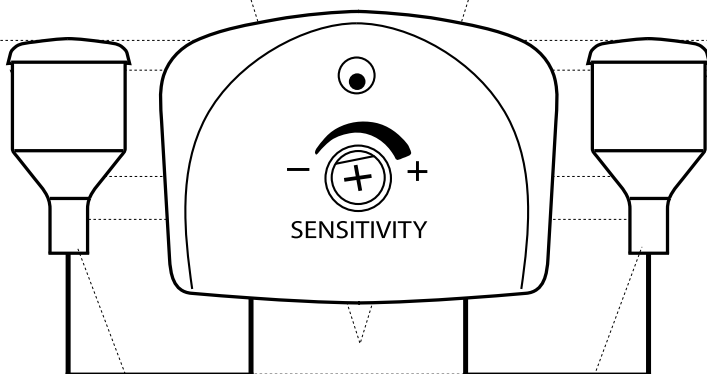


VISION

318-04

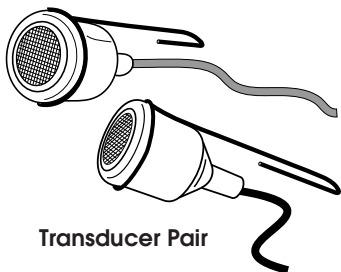
ULTRASONIC SENSOR



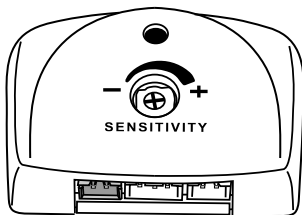
WIRING GUIDE



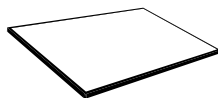
DESCRIPTION OF PARTS



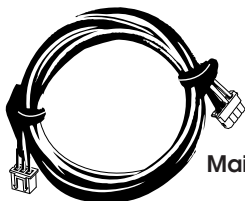
Transducer Pair



Control Unit



2-Sided
Mounting Tape



Main Harness

TECHNICAL SPECIFICATIONS

Operating Voltage:	12Vdc
Current Consumption:	6mA (avg.)
Alarm Trigger:	Single Stage

NOTE#1: The ORANGE wire in the Main Harness is not used. You may cut it off.

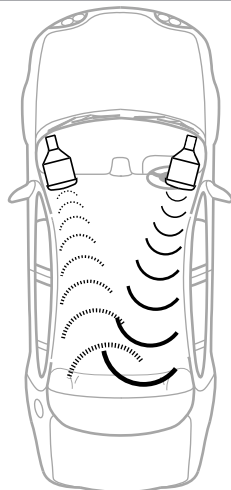
NOTE#2: The cream-colored 4-pin connector is used on most VISION security systems. This connector also plugs directly into the VISION 318-035 Sensor Splitter. For other car alarm systems, you will need to cut off the 4-pin connector and connect the RED, BLACK and WHITE/RED wires by hand. DO NOT cut off the white 3-pin connector, which attaches to the Ultrasonic Control Unit! The WHITE/RED wire sends a (-) GND pulse when the sensor is triggered.

HOW IT WORKS

The 318-04 Ultrasonic Sensor operates on the principle of “Doppler ultrasound.” One transducer emits high frequency sound waves inside the vehicle, while the other transducer detects the sound waves. Circuitry inside the sensor’s Control Unit determines if there are any changes in the sound waves.

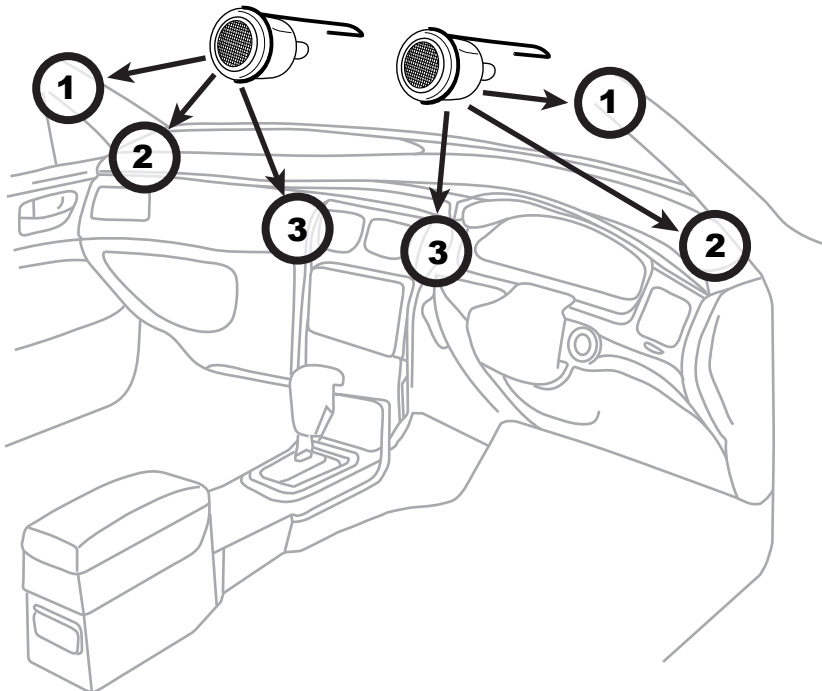
Sound waves are “changed” or “deflected” by solid objects and by changes in air pressure. An arm passing through an open window, or the partial opening of a door is sufficient to disrupt the sound waves in the car and trigger the security system’s siren.

Active filtering inside the Control Unit works to ensure small changes in air movement do not cause the sensor to false trigger. The Sensitivity adjustment screw on the Control Unit allows the user to determine how small changes must be before a trigger signal is sent to the car alarm system.



INSTALLATION

- Mount the Transducers as high as possible inside the vehicle, as indicated by position (1) in the diagram below. The numbers in the diagram indicate order of mounting preference. Keep in mind that solid objects like *seats* block ultrasonic waves.
- Position the transducers in the front of the vehicle, as shown in the diagram below. Ensure they fire straight to the back of the vehicle, parallel in position to each other. If you angle the transducers too much toward each other, it will have an adverse effect on sensitivity. *Be sure to mount both sensors at the same height!*
- Mount the transducers more than 20cm (8 in.) apart.
- Avoid placing the sensors in direct exposure to sunlight, if possible. And do not mount on the air vents. Make sure the transducers don't wobble or you will get false alarms.
- Once you have positioned the transducers, test the sensor by waving your hand or moving an object from the *very back, inside* of the vehicle. Reposition and/or adjust sensitivity of the Control Unit as necessary.
- Leaving the windows open may cause the Ultrasonic Sensor to false trigger, especially if the wind is blowing. It is recommended to keep the windows rolled up more than half-way when using this sensor.



NOTICE! Although reasonable efforts have been taken to ensure accuracy in this Wiring Guide, Kiramek Inc. shall not be held liable for any errors, omissions, property damage, or injury resulting from the use of this information.

All product specifications and features are subject to change without notice.

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