

Backup Parking Sensor System

4 Rear In-Bumper Type Sensors
Wireless LED Display with Built-in Audible Alert

For Cars, VANS, SUVs, and Trucks

MODEL 4015N

FC CE ISO9001

<http://parkingsensors.net>

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Included in the Box

- **4x Sensors** with attached cable and 2-pin mini plug. Cable Length: 2.5m (8.2ft)
- **4x Wedge-Shaped Plastic Sensor Spacers** for non-vertical bumper
- **1x Control Box**
- **1x Power Cable for Control Box** with 3-pin mini plug. Cable Length: 1.0m (3.3ft)
- **1x 3M Double-Sided Self-Adhesive Pad** for affixing Control Box
- **1x Wireless LED Display** with attached power cable (2.0m or 6.5ft) and cigarette lighter type plug, double-sided self-adhesive pad on bottom of display
- **1x Drill Bit (Hole Saw)-** $\Phi 21\text{mm}$ (13/16")
- **1x User's Manual**

Features

- 4 Rear Sensor Backup Parking System
- In-bumper type sensors to give the look of factory installed system
- System activated when vehicle is in reverse
- Wireless LED Display with built-in audible alert (beeper) and On/Off switch
- 7 LED Lights (Green/Yellow/Red) on each side of the display indicating orientation of obstacle and Safe/Warning/Stop zone
- Designed for cars, VANS, SUVs, and trucks
- Distance display in feet or meters (optional)
- Limited 12 Month Warranty

Specifications *

- CE FCC ISO9001 Approved
- Wireless RF Range: 0~20m (65.6ft)
- RF Frequency: 433KHz
- Operating Voltage: DC 10.5V ~ 16V
- Detecting Range: 0.3m ~ 1.5m (1ft ~ 4.9ft)
Displayed as 0.0 when less than 0.3m (1ft)
- Measuring Error: $\pm 0.1\text{m}$ (or 0.1ft)
- Sensor Detection Angle: 90°
- Detection Response Time: 300ms
- Sensor Diameter: $\Phi 21\text{mm}$ (13/16")
- Audible Alert when obstacle within: 0.1m ~ 1.5m (0.3ft ~ 4.9ft)
- Ultrasonic Frequency: 40KHz
- Audible Alert Volume: 73 db
- Maximum Power Consumption: 3.6W
- Current Consumption: 50~180mA
- Operating Temperature Range: -30 ~ +70°C
- Dimensions of the Wireless Display: Width x Depth x Height = 13.4cm x 3.0cm x 2.8cm (5.2" x 1.2" x 1.1")
- Dimensions of the Main Control Box: Width x Depth x Height = 9.8cm x 7.0cm x 2.1cm (3.8" x 2.7" x 0.83")

* The specifications & features are for reference only. They may be changed without prior notice.

Tools Needed

$\Phi 21\text{mm}$ (13/16") drill bit (include), drill, tape measure, chalk or marker, wire stripper, vinyl electrical tape, cable/wire ties, voltage meter, screw driver set, pliers.

Note: Use a bi-metal 21mm (13/16") drill bit (not included) if drilling through metal bumpers.

How the System Works

The Backup Parking Sensor System determines obstacle distance by measuring the time needed for the ultrasonic wave emitted by a sensor to reach an obstacle and for the sensor to receive the ultrasonic wave reflected from the obstacle. Given the speed of the ultrasonic wave, the system can then calculate and display the distance between the sensor and the obstacle.

To have the look of factory installed system, the system comes with 4 in-bumper type sensors to be installed in the rear bumper by drilling holes through the bumper. ❖ The main control box is powered by tapping into the back up light wires so that the system will work only when vehicle is put in reverse. ❖ It is supplied with a wireless LED digital display which shows the exact distance from an obstacle and eliminates the wiring between the display and main control box. The wireless display can be mounted up to 20m (66 feet) away from the main control box (still requires its own +12V power supply). This is especially convenient for installation on long vehicles. ❖ The wireless display can be powered by cigarette lighter, ACC or ignition switch. ❖ Seven (7) LED Lights (3xGreen/2xYellow/2xRed) on each side of the wireless display indicate both orientation of obstacle and Safe/Warning/Stop zone. ❖ The audible alert (beeper) with on/off switch is built in the wireless display. It beeps faster as vehicle gets closer to obstacle and sounds continuously when vehicle is within 0.3m (1ft) from obstacle.



