

Wired Parking Aid 2 Sensors PDC200



COMPONENTS



Component List 1. Main unit x 1

- 2. Ultrasonic sensor
- 3. Snap-on connectors x 2
- 4. Cable ties x 4
- 5. Screw for sensor x 4
- 6. Power wire x 1
- 7. Adhesive tape

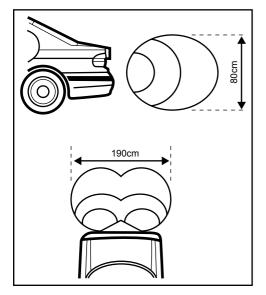
INTRODUCTION

Thankyou for buying the PDC200 Reverse Parking Sensor. This manual details the installation and operation of your product. Please read it carefully and keep to hand for future reference

The PDC200 is an automatic reversing alert system. It gives a safety warning which tells the driver the distance between the rear of the vehicle and any object in its path.

The sensor transmits an ultrasonic signal when the car is reversing. When the signal senses an object, it will be reflected and received by the PDC200 main unit. These reflected signals are analysed by the main unit microprocessor to detect whether the obstacle is in your path and at what distance.

Below are graphical representations of the PDC200 detecting patterns:



FEATURES

- The ideal assistant for reverse parking and driving.
- Detects persons, objects etc. from ca. 40cm up to ca. 1,50 meters behind the vehicle.
- Less risk for parking damage from unseen objects.
- Distance between vehicle and object by clear sound and red, yellow or green lamp indicators. Adjustable volume.
- 2 reverse sensors for optimal detection.
- Automatic activation when car is put in reverse mode.
- Quick assembly with 2-wire installation and connectors.

A set consists of:

- 1 x main unit
- 2 x ultra sonic sensors
- 2 x cable (snap-on) connectors
- 4 x cable ties
- 4 x screws for sensors
- 1x power cable

and adhesive mounting tape

Read before use the instruction manual.

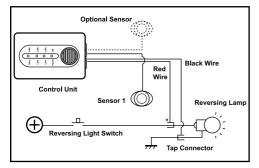
- Only suitable as reverse driving system
- Not suitable for vehicles with rear engines
- Do not use with a vehicle with reversing horn or alarm
- Do not extend cables (might distort the sensors)
- Do not paint or spray the sensor
- Install with car in horizontal position.
- A false response may be recorded if a DC to AC power converter is being used close by.

Installation

During the installation your vehicle must be in neutral and the ignition switched OFF.

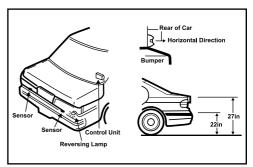
Wiring diagram:

Below is a wiring diagram for the PDC200 showing the necessary connections. Please follow the instructions step by step in order to install your Reversing Sensors.



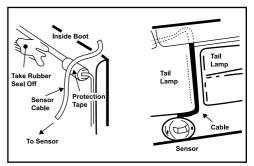
Position of the sensors

- Before installation first determine the final position for the sensors.
- Take care that the surface is clean, even and free from dirt, grease, polish etc.
- Attach the mounting tape to the rear of sensor and press the sensor on the desired locations.
- Locate a flat area at the rear of the vehicle. Sensors should be fitted between 55cm-70cm from the ground. If fitted higher than 70cm the sensors may not detect low objects. If lower than 55cm the signal may reflect from the ground and produce a false reading.
- The sensors should be fitted 90cm apart from each other (at the same height).
- Mount the sensors horizontally for the best reflective signal.



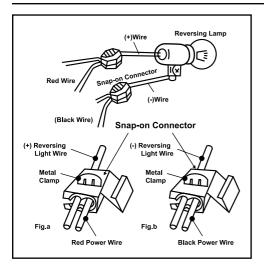
Wiring the sensor

Having chosen a location for the sensors, you must now decide on a route for running the wiring into your vehicle. You will need to attach the wires to the main unit (see below).



Connecting the wiring to the main unit of the PDC200

- You now need to connect the red and black power cables to your vehicles reversing light wires.
- The red power cable should be connected to the positive reversing light wire (this is the wire that becomes live when you select the reverse gear), using the snap-on connector provided.
- Now connect the black power cable to the ground wire from the reversing light, again using the snap-on connector provided.

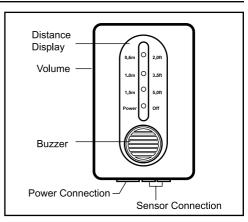


Connecting the Sensor and Power wires to your PDC200

Now you need to choose a location to mount the main unit within the passenger compartment of your vehicle. This position should be where you can easily see and hear the unit easily, while not impeding the drivers view. You can use the adhesive tape included with the package to mount the unit onto the chosen location.

Having chosen your location, you should now route the sensor cable and power wires from the boot into the front of the vehicle and towards the main unit.

• Plug the sensor cables into the 2 pin connectors, and the power wires into the 4 pin connectors (as shown below).



Operation

When you select reverse gear, you will hear a beep. This indicates that the PDC200 is working and has been activated (it does not necessarily mean that there is something behind you.)

As you begin to reverse and an object comes within range, you will hear a beeping sound from the main unit. The frequency or pitch depends on the range of the object being detected. If necessary, you can use the switch on the side of the unit to increase or decrease the volume.

The table below shows the alarm speed corresponding to the range of the object detected.

Your PDC200 may work slightly differently to what is shown in the table above depending on circumstance and also on how your sensors are positioned. You should practice using your set up in a known area before using it in earnest on a day to day basis.

With use, you will find it a convenient and useful aid to your reverse parking.

DISTANCE	AUDIO ALERT	VISUAL ALERT
Over 1.5m (5.0 FT)	No Beep	Only Power LED
1.5m - 1.0m (5.0 - 3.5ft)	Веер	Green LED
1.0m - 0.6m (3.5ft - 2.0ft)	Веер Веер	Yellow LED
Below 0.4m (1.3ft)	Continuous Tone	ALL LED's FLASH

WHEN THE BEEPING INCREASES AND FINALLY BECOMES A CONTINUOUS TONE AND ALL OF THE LED'S ON THE MAIN UNIT ARE FLASHING, YOU SHOULD STOP IMMEDIATELY, EVEN IF THERE IS NO OBVIOUS OBSTACLE BEHIND YOU.

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FAULT DESCRIPTION	PROBABLE CAUSE
False or no response	Steep slopes or thin bars. Bushes or other foliage could absorb the signals. Electricity wires nearby could interfere with the signal. (See diagram below) Sensors covered with snow, mud or ice etc.
Power light does not come on when reverse gear has been chosen.	Check that the power wires are properly connected to the reversing light power wires. Check that the snap-on connectors are providing a good contact.
Sensor always shows an object is FT (Red LED) behind vehicle.	Check whether the sensors are located to low, or the angle is pointing downwards and therefore detecting the ground.
Power light (Green LED) is on, but the unit it not detecting any obstacles	Check whether the sensors cable is correctly plugged into the 2 pin socket of the main unit.
Unit does not show correct distances.	Check that the sensor is properly mounted. The sensor must be horizontal. Adjust as necessary.

Steep Slope



Trun Bar



Bushes etc. Absarbing Signal



SPECIFICATION

Power requirement:

LED indicator: Power indicator: Detection range: Closest detection range: Alarm volume select: Temperature: Length of cable: DC10 - 15V <30mA stand-by <200mA Alarming 3 position LED Green LED 5.0ft, 3.5ft, 2.0ft 0.4mtr (15inches) High, Medium, Low -20°C to +50°C 5mtrs (16.5ft)

If faults cannot be remedied, contact the *Helpline* on 020 8391 6767 helpline@hilka.co.uk www.hilka.co.uk

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