PARKING Assistance

User Manual

RPS419EC0 Rear Mount sensor

MACROM

Dichiarazione di conformità

The complete Declaration of Conformity is available at:
GMA ITALIA s.r.l, V. Di Vittorio, 7/33 - 20017 - Rho (MI) Italy
and available on the website www.macrom.it

Made in China by
GMA ITALIA s.r.l, via G. Di Vittorio, 7/33 - 20017 - Rho (MI) Italy

INFORMATION FOR USERS OF HOUSEHOLD EQUIPMENT

Pursuant to Legislative Decree No. 49 of 14 March 2014 "Implementation of Directive 2012/19 / EU on waste electrical and electronic equipment (RAEE)". The crossed-out bin symbol shown on the equipment indicates that the product at the end of its useful life must be collected separately from other waste. The user must, therefore, deliver the equipment complete with the essential components at the end of its life to suitable separate collection centers for electronic and electrotechnical waste, or return it to the retailer when purchasing new equipment of an equivalent type, at the rate of one to one, or 1 to zero for equipment having a longer side less than 25 CM. Adequate separate collection for the subsequent start-up of the discarded equipment for recycling, treatment and environmentally compatible disposal helps to avoid possible negative effects on the environment and health and promotes the recycling of the materials of which the equipment is made.
Illegal disposal of the product by the user involves the application of administrative sanctions pursuant to Legislative Decree no. Legislative Decree N ° 49 of 14 March 2014.

Warranty

Thank you for purchasing this Macrom product.
Please read this instruction manual carefully so that you know the correct operation of the product. After you have finished reading the instructions, keep the manual in a safe place for future reference.
If the product requires assistance, please refer to the store where it was purchased or the local distributor in your country.
The warranty does not cover accidental damage due to inappropriate use or installation and incorrect power connections.

Feature

- Rear Installation 4 Paintable sensors
- Spare wheel presence setting
- Tow hook presence setting
- Self-learning function
- Anti false alarm technology
- Survey Presidency
- Waterproof connectors
- Display (OPTIONAL)

Technical data

- Voltage9-16 V DC
- buzzer volume 70-90 dB
- Display range 0,3 m -2,5m
- Buzzer range da 0,3 a 3, 5 m
- Installation of sensors from 45 cm to 60 cm from the ground

Product information

The parking sensor uses ultrasound to check the distance. It electronically detects the area behind your vehicle when reversing and alerts you acoustically and / or visually if there is an obstacle.

This system has 4 transducers. It will warn you if there is an obstacle behind your vehicle. It is possible to choose the version with buzzer or with display.

Each component has been rigorously tested before being put on the market and is reliable over a very wide temperature range and is very useful when parking in the rain or snow or overnight.

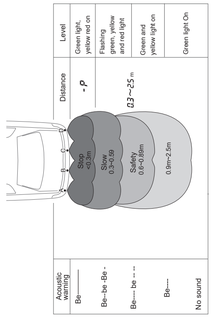
The product is guaranteed for 12 months after purchase. In the event of a malfunction of the appliance, if installed and used as instructed, it will be repaired or replaced under warranty.

Warnings:

The parking sensor provides assistance when reversing but does not replace the essential rules of good driving such as slowing down and using rear-view mirrors.

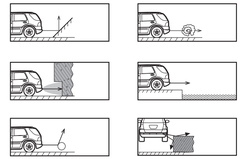
1. This item is suitable for 12V DC powered vehicles.
2. Professional installation indicated.
3. Route wiring away from heat sources and electrical components.
4. Check the position of the sensors BEFORE drilling holes in the paraute.
5. Carry out the verification procedures after installation.

Functioning



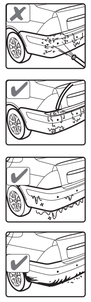
Caution

False detections can occur in the following cases:



- After installation, test completely before use.
- Very heavy rain or dirty or damaged sensors can cause false alarms.
- Make sure the self-test function is completed and all sensors are working before reversing.

Transducer maintenance



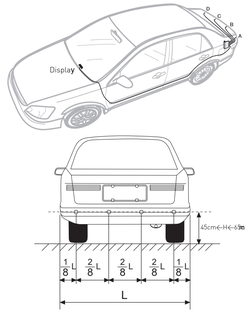
Do not wash the sensors with a pressure washer or scrub hard

Wash the car with low pressure water.

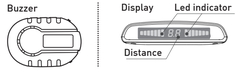
Melt any ice on the sensors with lukewarm water.

Clean the sensors with a cloth or low pressure water if the sensors are covered with mud or snow

Installation diagram



Buzzer and led display



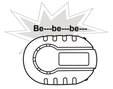
Self-test function

System with buzzer:
When reverse gear is engaged, the system automatically tests the 4 rear transducers A, B, C and D
If all transducers work normally, the buzzer will emit a beep.
If any or all of the transducers are damaged the system

- It will emit 3 beeps
- The other transducers will continue to function normally

1. All transducers work

2. non-functioning transducer detected



Self-learning function

Vehicles with external spare wheel or tow hook

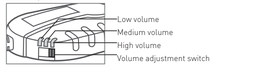
Start the car, engage and disengage reverse 10 times. On the tenth time, stay with reverse gear engaged for 6 seconds while the device performs the self-learning function.

To cancel the self-learning function, engage and disengage reverse gear 12 times. The 12th time leave it inserted for 8 seconds while the device restores the factory settings.

Tip: if you make a mistake during the operation, leave reverse gear engaged for 2 seconds to clear the memory and start over.

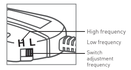
Volume and frequency adjustment

Volume adjustment



Frequency adjustment

The frequency of the buzzer sound can be adjusted from high to low via the switch.
Tip: if on the same vehicle it is also installed a parking sensor front, we suggest using the frequency low (L) for the rear and high (H) for the front one in order to easily distinguish them.



Optional

System with display:
When reverse gear is engaged, the system automatically tests the 4 rear transducers A, B, C and D
If all transducers work normally, the buzzer will emit a beep.
If any or all of the transducers are damaged the system

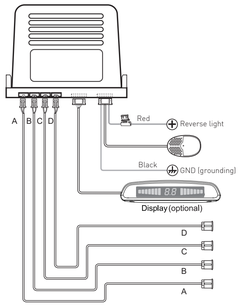
- It will emit 3 beeps
- The number and location of non-functioning transducers appears on the display
- The other transducers will continue to function normally

1. All transducers work

2. Bad transducer detected

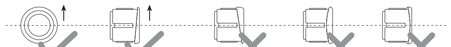
Number of non-functioning transducers

Electrical connection



Transducer installation

Important note: The transducer must be installed vertically, the "UP" mark upwards.



The transducer must be installed vertically

If installed incorrectly, false alarms can occur

The transducers must be installed vertically

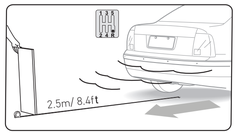
Use a pilot drill after taking measurements to prevent the drill from slipping.

Drill the bumper with an 18.8 mm cutter

Rear bumper

Press the sensor firmly into the hole

Function test



The function test is performed by holding a wooden board (0.3 m x 1 m) behind the car, go slowly in reverse to check all the functions indicated in this manual.

Problem solving

- **After installation the display does not work**
  a) are the harnesses connected correctly?
  b) Is the car on?
  c) The reverse gear is engaged (the rear light should be lit)?
- **A damaged sensor was detected**
  a) All sensors are correctly and securely connected to the control unit?
  b) Is the sensor cable broken or damaged?
  c) The sensor is covered with mud or snow
  d) The sensor is damaged?
- **False alarms**
  a) All sensors are correctly and securely connected to the control unit?
  b) Is one of the sensors sensing the ground?
- **If the problem persists follow this procedure**
  a) For the user: contact your installer
  b) For the installer or seller:
  1) Replace the control unit and check the system
  2) Test the sensors with a verified control unit using the wooden board
  3) Connect the tested sensors to the control unit and check again