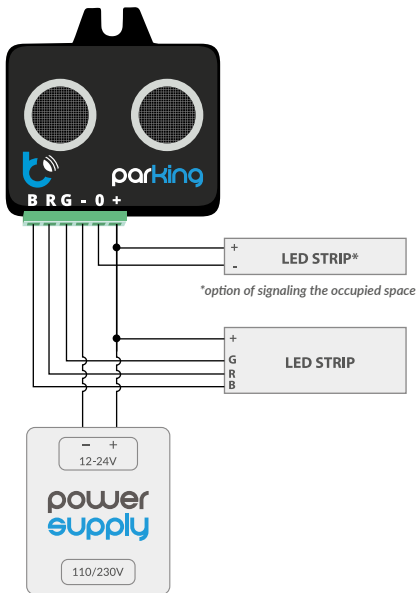




SAFETY RULES

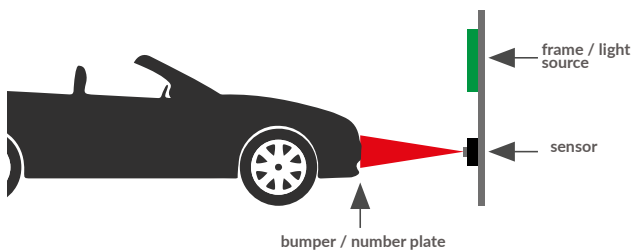
- Do not connect the device to loads exceeding the permitted values.**
- Connect only in accordance with the diagram presented in the manual. Improper connections may be dangerous, it can damage the controller, and loss of the warranty.**
- DANGER! Risk of electric shock! Even with the device turned off, the outputs may be live. All assembly work should be ALWAYS performed with the disconnected power circuit.**
- The installation of the device to a power mains that does not meet the quality requirements defined by EN 50081-1, EN 50082-1, UL508, EN 60950, will result in the loss of the warranty.**

CONNECTION DIAGRAM



1 INSTALLATION

- Before installing the sensor, disconnect the voltage in the supplied circuit. Remember that all assembly work should be carried out with the power supply disconnected.
- The sensor should be mounted in a place protected from adverse environmental conditions. It is advisable that the device is mounted in a stable and stationary position.
- Mount the device vertically at the height of the farthest part of the car (usually a bumper or license plate) as in the drawing below, so that the connector is at the bottom.



- Connect the LED strips and power supply to the device according to the diagram.
- Optionally, connect the LED lamp indicating the occupancy of the parking space. When the vehicle is within range of the sensor, the lamp will remain on continuously.

2 FIRST START-UP

- Connect the power supply. Bring your hand or paper closer to the ParkingSensor sensor, the color of the light should change with the detector:

green color *you can move forward safely*

blue color *you are close to the obstacle*

red color *stop the vehicle*

pulsing red color *stop the vehicle immediately!*

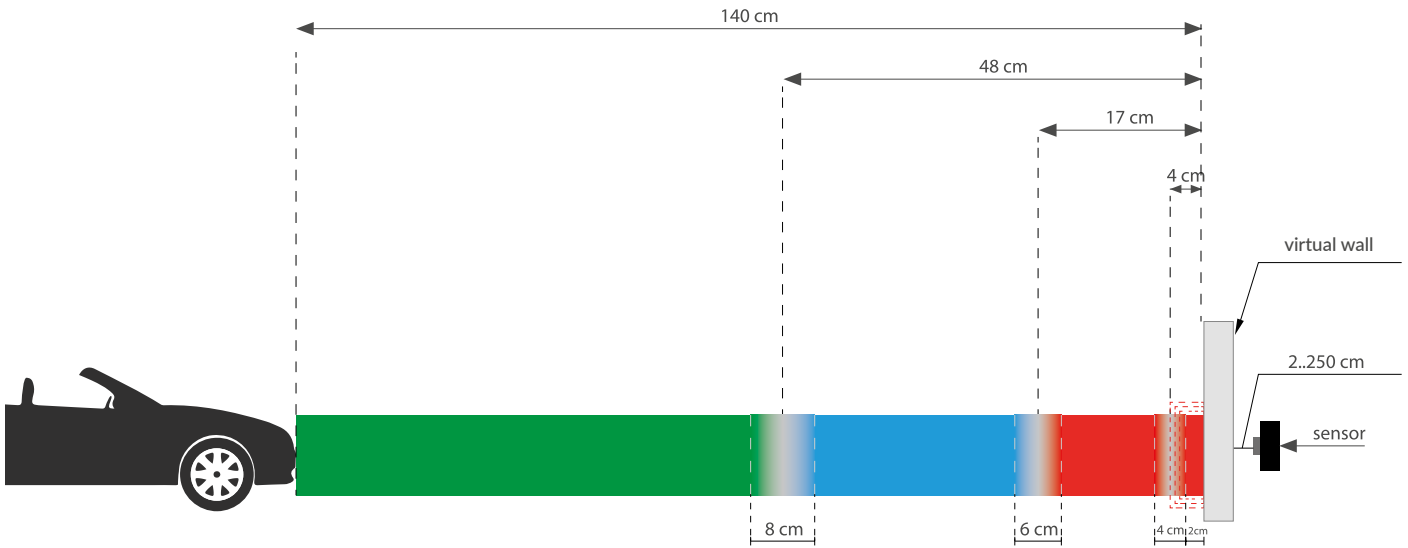
- The time of the color illumination (red / blue / green) is 10 seconds, while the optional LED lighting shines during the entire period of occupancy of the parking space.

3 MOVEMENT OF THE VIRTUAL WALL

- The range of the color changes are established in relation to the virtual wall. By default, the virtual wall is at a physical distance of 2 cm from the sensor. It can be adjusted in the physical range 2 cm..250 cm of the sensor by performing the following steps:
 1. place a flat object (for example, a piece of cardboard) in front of the sensor at the desired distance, such as a virtual wall;
 2. connect the power supply; wait 5 seconds; disconnect the power supply;
 3. connect the power supply; wait 10 seconds; disconnect the power supply;
 4. connect the power supply; wait 15 seconds; disconnect the power supply;
 5. connect the power supply; wait until the LED strip turn on white and then turn off, which means that the configuration has been saved; check if the virtual wall works as expected.

Scheme of the virtual wall movement is presented on the end of manual ▶

TECHNICAL SPECIFICATIONS	
supply voltage	7-24V DC
energy consumption	<1W
maximum current	8A
number of PWM channels	3 (RGB)
type of output	open collector, 250mA
additional output	output on the presence detector
sensor	ultrasonic, distance sensor
housing	made of polyurethane composition not containing halogens, self-extinguishing for thermal class B (130 °C)
dimensions	50 x 40 x 25 mm with connector: 50 x 50 x 25 mm
protection level	IP20
controller operating temperature	from -20 to + 50°C
calibration of notified distance	yes



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Support is available at support@blebox.eu

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