parkingsensor

user manual

PARKING SENSOR LED / LED RGB LIGHTING CONTROLLER

SAFETY RULES

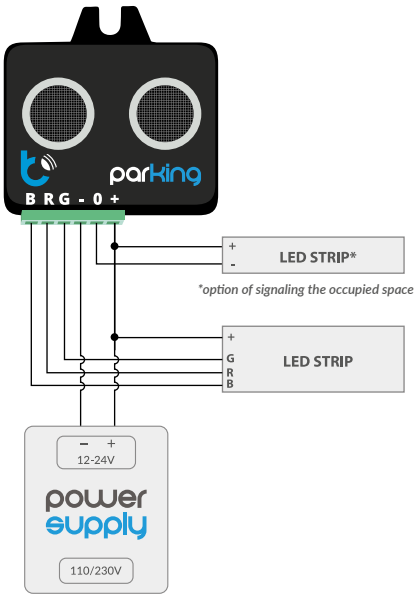
Do not connect the device to loads exceeding the permitted values.

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.

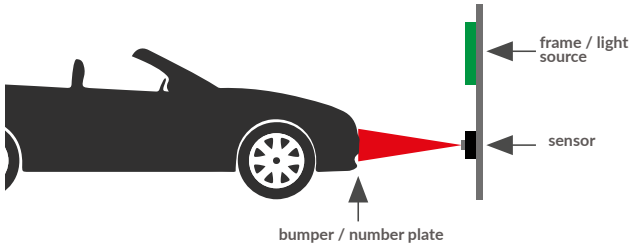
The installation of the device to a power mains that does not meet the quality requirements defined by EN 50081-1, EN 50082-1, UL508, EN 60950, will result in the loss of the warranty.

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	12-24V DC
energy consumption	<1W
functions	distance signaling, space occupancy detection, possibility of configuring an “artificial wall” (changing the final distance - stop)
maximum power:	**RGB output:** 216W (@24V DC) **presence output:** 6W (@24V DC)

maximum current	**RGB output:** 9A (3A per channel) **Presence output:** 250mA
number of outputs:	3 (RGB - distance thresholds) + 1 (presence detection)
output type	open-drain, mass control
sensor	ultrasonic
maximum detection range:	250cm
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
protection	reverse polarity, ESD

For more information visit our website

www.blebox.eu

Or send us an email to: info@blebox.eu

Support is available at support@blebox.eu

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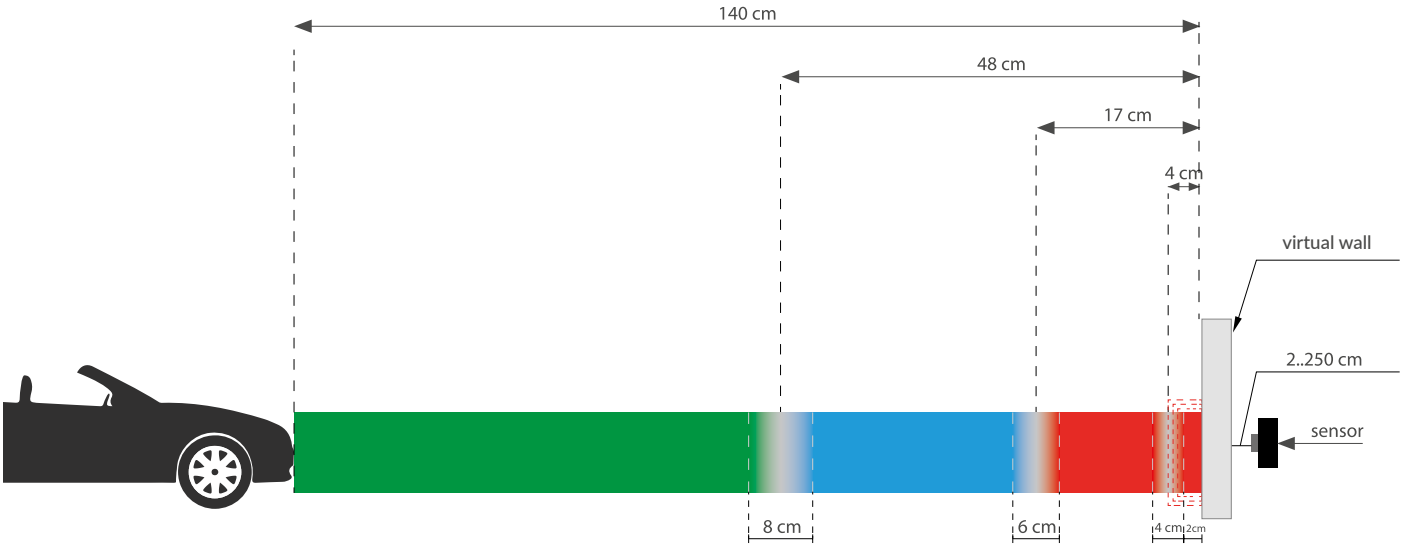
Movement of the virtual wall:



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