
11Ghz Truck Microwave Reverse Sensor W11/Y11 Spec

1. Application:

The information contained in this specification is applicable to the W11 wireless reversing sensor and Y11 wired reversing sensor solutions, including module specifications, operating instructions, etc.

2. Overview:

- 1) The W-11 reversing sensor integrates 11Ghz microwave sensor and RF wireless radio frequency to form an integrated wireless reversing sensor, which outputs three-stage alarm buzzer signals. It is mainly used for the reversing obstacle avoidance function of semi-trailers.
- 2) Y11 reversing sensor uses 11Ghz microwave sensor and outputs three alarm beep signals. It is mainly used in reversing obstacle avoidance for passenger and trucks and obstacle avoidance for construction machinery.

3. Technical Specifications:

NO.	Items	Specifications
1	Rated Operating Voltage	12v~24vDC
2	Rated Operating Current	12V 160mA +/- 10mA
3	Operating Band	9.9~10.5GHz
4	Measuring Accuracy	0.1m
5	Detection Distance	3m
6	Horizontal Angle	160°
7	Vertical Angle	105°
8	Wireless Transmission Distance (W11)	40M

4. Product Image:

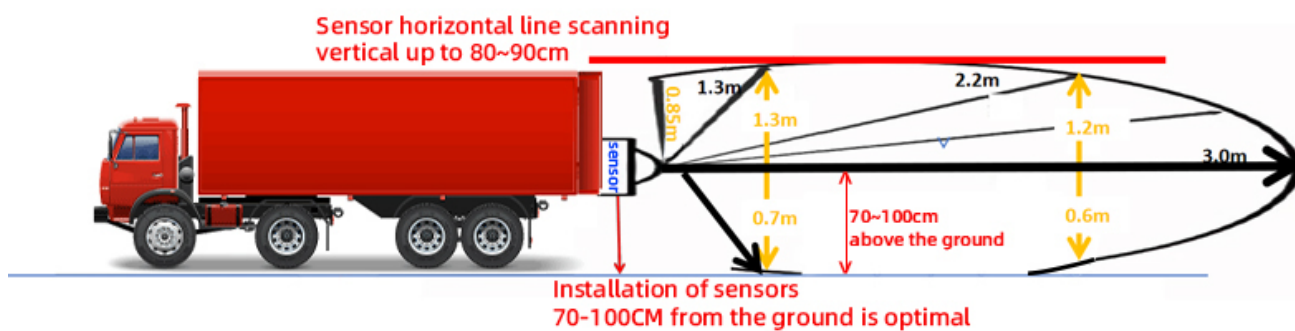
W11



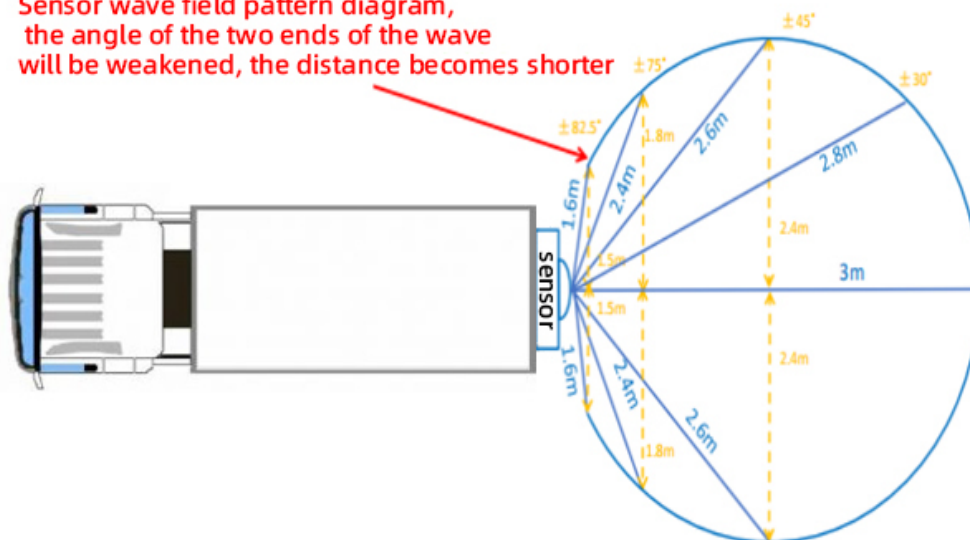
Y11



5. Sensor Detection Area:



Sensor wave field pattern diagram,
the angle of the two ends of the wave
will be weakened, the distance becomes shorter

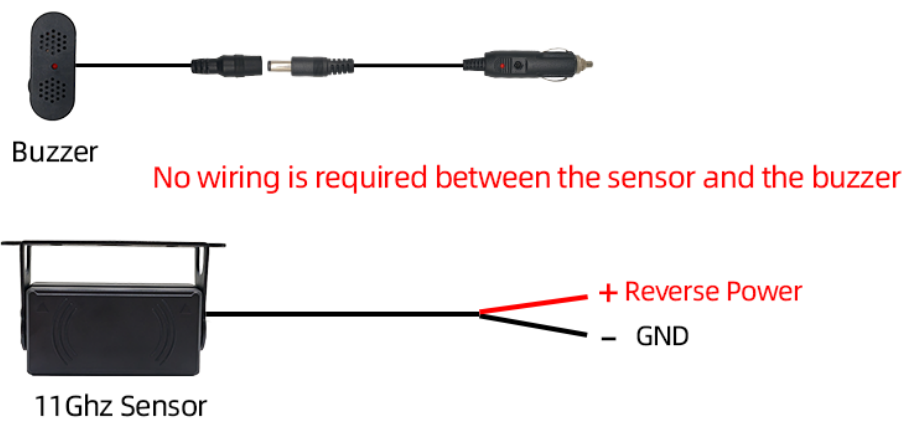


6. Wiring Diagram:

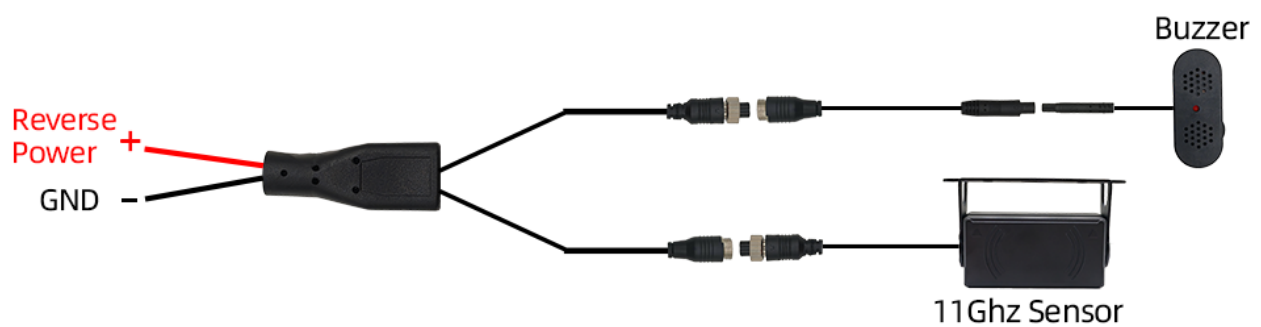
1) Installation location:



2) W11 Wiring method:



3) Y11 Wiring method:



Forklifts and excavators and other vehicles without reverse power supply, the positive pole is connected to the vehicle ACC power supply.

7. Early Warning Principle:

1、W-11The wireless reversing sensor is connected to the reversing power, and the sensor works when it is powered on, with millisecond delay.

2、After the sensor is activated, it will sense and warn objects that are relatively moving within a range of 3 meters. When it senses that an object within the signal range is moving at a relative speed, it will output an I/O buzzer sound signal.

3、Early warning mode:

Level 1:3M-2M: buzzer beeps-beeps-beeps, flashes and rings slowly ;

Level 2:1M-2M: Buzzer beeps-beeps-beeps, Rapid blinking and ring;

Level 3:0M-1M:buzzer beeps-beeps-beeps, flashes and rings slowly.

8. Note:

- 1、 When installing, try to stay away from frequently started high-power electrical equipment and motors and other locations with strong magnetic field interference.
- 2、 During testing, there should be no obstructions within the sensor beam range, and the test environment should be as open as possible to avoid affecting the measurement results.
- 3、 The best effect is when the visual radar is installed 80cm~100cm from the ground and in a horizontal position.

Features:

1. Microwave sensor has high sensitivity and low false alarm rate.
2. Rain, fog, light, dust and temperature have little effect on the sensor.
3. Rain, fog, light, dust and temperature have little effect on the sensor.
4. Single sensor is easy to install and has a wide signal angle.
5. IO alarm output can be connected to other sound and light alarms.
6. Accurately detect the distance of moving objects or obstacles.