

WSE7+WSR4/WSE7+WSR6

Remote Control Instructions

Contents:

1. Function and characteristics
2. Main technical parameters
3. Working principle and wiring diagram
4. Using method and Precautions
5. Maintenance and repair

1. Function and characteristics

1.1 Function

The wireless remote control produced by our company is mainly used to replace manual switch for operating winch. Through a radio connection between the remote transmitter and the winch, the winch can be operated remotely from a certain distance.

1.2 characteristics

The remote control uses 433MHZ wireless transmission technology. With easy-to-use, low power, automatic shutdown, stable performance, anti-interference ability and so on.

2. Technical parameters

2.1 Transmitter power: Powered by two 12V 23A batteries

2.2 Operating Voltage: 12V-36V

2.3 Remote control distance: 0-40m

2.4 Remote control angle: 0-360°

2.5 Operation delay: $\leq 20\text{ms}$

2.6 Number of coding groups: ≥ 10 million groups

2.7 Waterproof grade IP67

2.8 Transmitter shuts-off: If it is not used for more than 3min, the transmitter will automatically power off.

Normal operating conditions:

Temperature environment: $-40 \sim +45^{\circ}\text{C}$

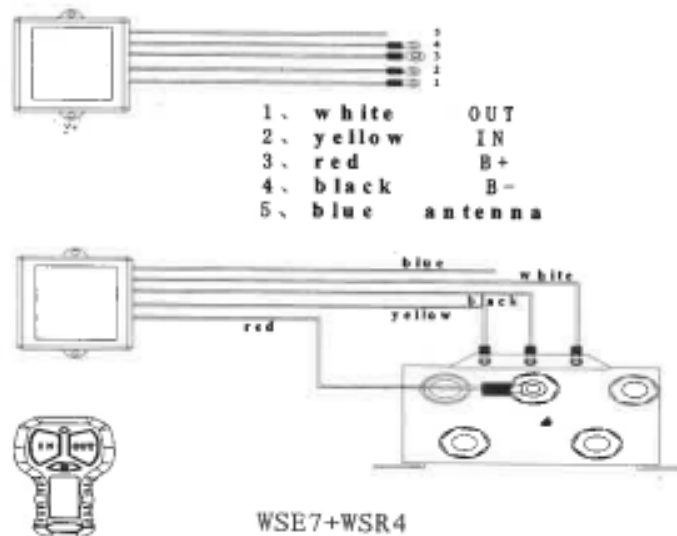
Relative humidity: $\leq 95\%\text{RH}$ (25°C)

3. Working principle and wiring diagram

3.1 This remote controller sends instructions to the receiver to control the winch.

3.2 wiring diagram (WSE7+WSR4)

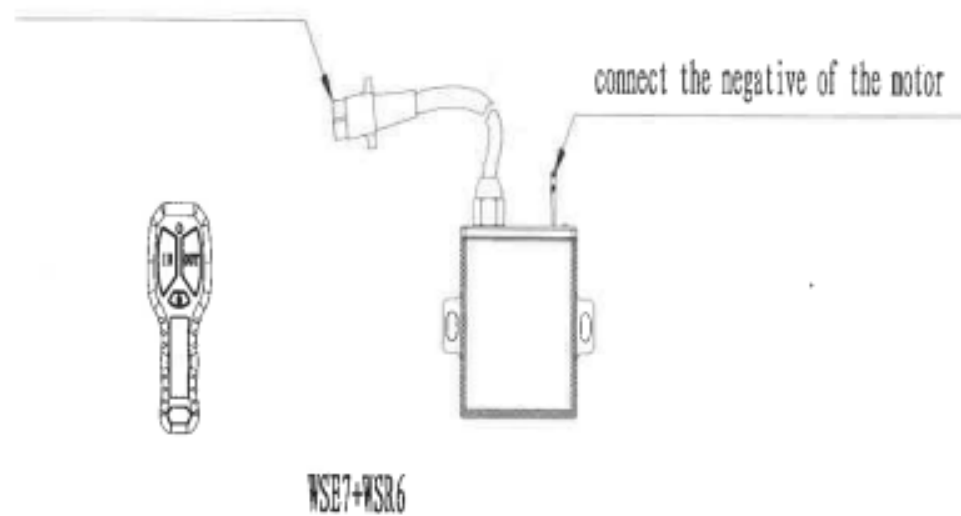
The following is the wiring diagram for the receiver. If the direction of the winch reverses, exchange the white and yellow lines connection.



3.3 wiring diagram (WSE7+WSR6)

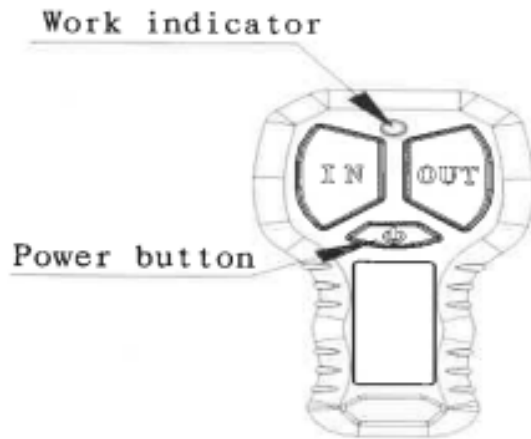
The following is the wiring diagram for the receiver.

wiring to the control box



4. Using method and Precautions

4.1 Remote controller transmitter function introduction



- (1) Press for 2-3S, the power of the remote control is turned on, and the red light of the work indicator is on;
- (2) Press the IN button on the remote control and the red light of the work indicator is flashing ;
- (3) Press the OUT button on the remote control and the red light of the work indicator is flashing ;

4.2 Precautions:

- (1) After the transmitter is turned on, the red light is on. And the red light is flashing when the IN / OUT button is pressed;
- (2) The maximum operating voltage of remote control is 36V. Please use a reasonable choice of power;
- (3) When installing and adjusting the winch, especially when finishing the wire rope, make sure that the transmitter power is off;
- (4) The transmitter and receiver of the remote control are paired and can't be interchanged unless the code is consistent;
- (5) If you do not use the remote control for a long time, remove the battery from the transmitter. Replace the battery regularly.

5. Maintenance and repair

5.1 When the transmitter is replaced, the same type of transmitter is required for pairing. The pairing method is as follows:

Code mode:

Turn on the power switch of controller → IN/OUT

button (the red light was flashing) → receiver power

on for 1-2s (the relay makes a sound of absorption)

5.2 During use, if the remote control doesn't work, the control system is faulty and needs to be serviced. The reason for the problem is as follows:

(1) The distance between the receiver and the transmitter is greater than the maximum stable distance; (reduce the using distance);

(2) The whole part of the electronic control is short circuit, (check the internal electronic control box or vehicle power supply).

(3) Replace transmitter battery

(4) Receiver internal failure, replace the receiver and re-code; (Coding method according to 5.1)