



CUBE Instruction of Optical Edge Sensors

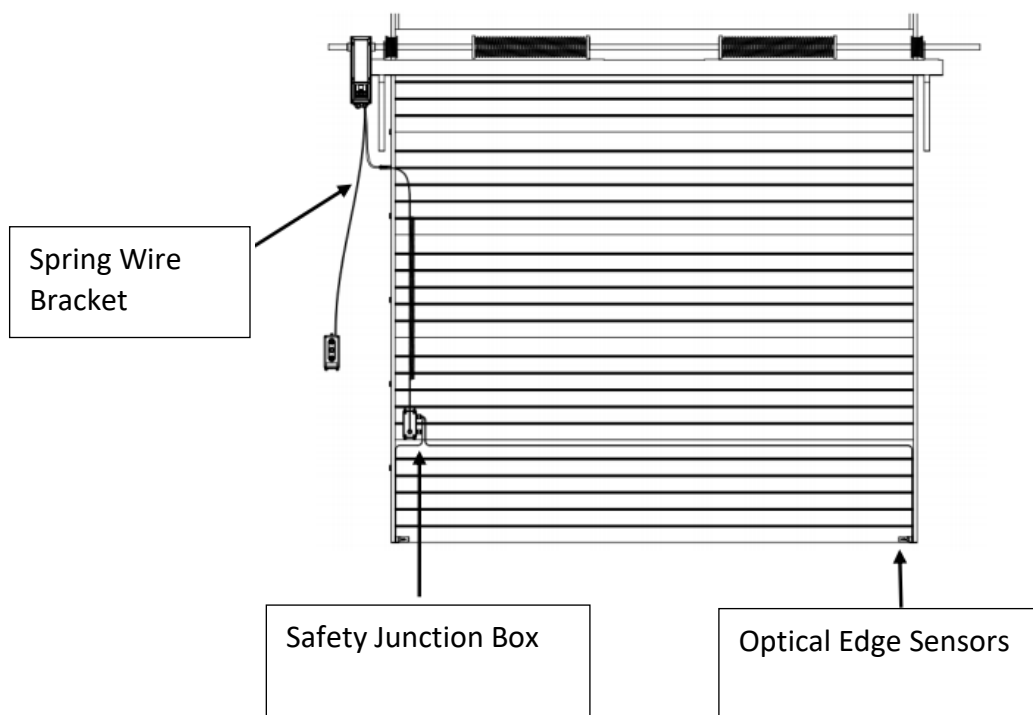
! Note: When connecting the optical edge sensors to the motor for use, Need to remove the 8.2K resistor on the control box first. Follow the instructions below to

access the control box interface, and set the function  to , the optical edge sensors can be used normally.

Installation

1. According to the installation position of the motor, fix the safety junction box on one side of the door. The transmitting and receiving ends of the optical edge sensors are fixed to the two ends of the door rubber strip by rubber plugs.
2. The optical edge sensors signal line is connected to the safety control box, and the safety junction box is connected to the motor through a spring wire.

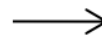
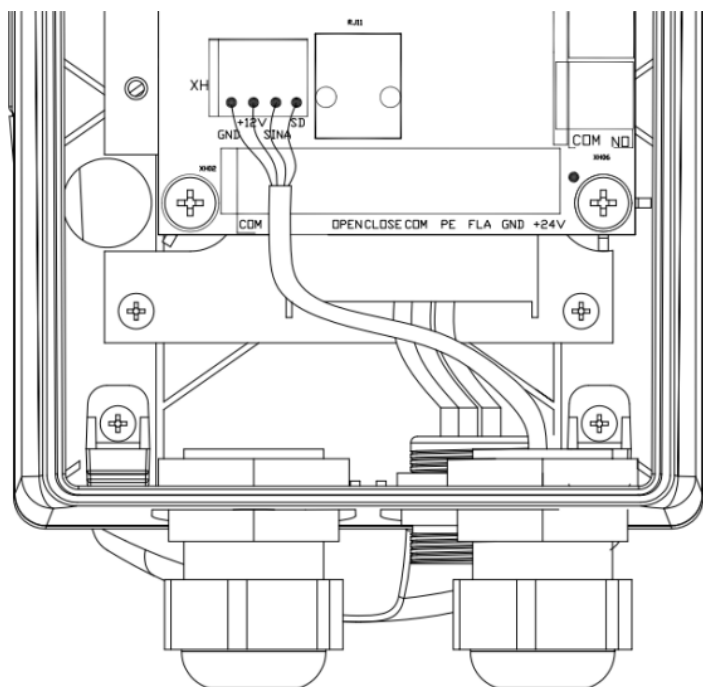
Note: The spring wire needs to be fixed on the side of the door frame with a spring wire bracket. Please see the following diagram for specific installation:



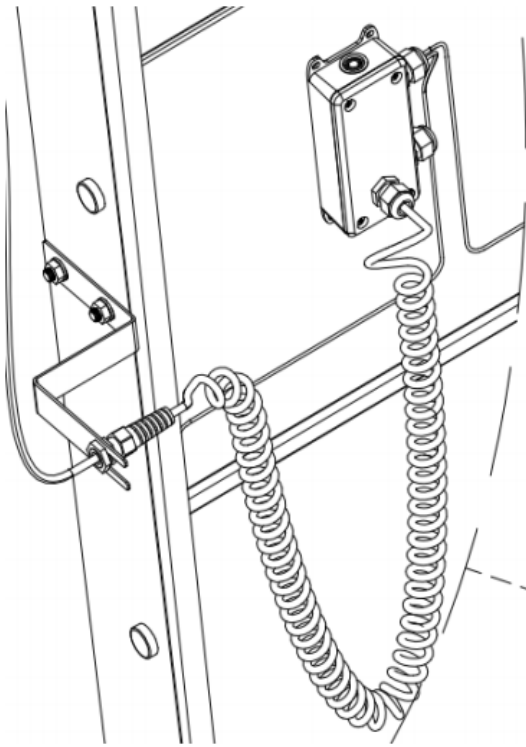
Parameters:

Voltage	DC 12-24V
Power Consumption	Below 6mA
Detection Distance	0.5m~10m
Error distance	Less Than 10% of Detection Distance
Detect Object	Translucent/Non-transparent Objects
Physical Dimension	37*13mm
Line Length of Transmission Interface	10m
Line length of receiving Interface	1m
Operating Temperature	-20°C~75°C
Waterproof Level	IP67
Weight	About 0.17Kg

Wiring Installation

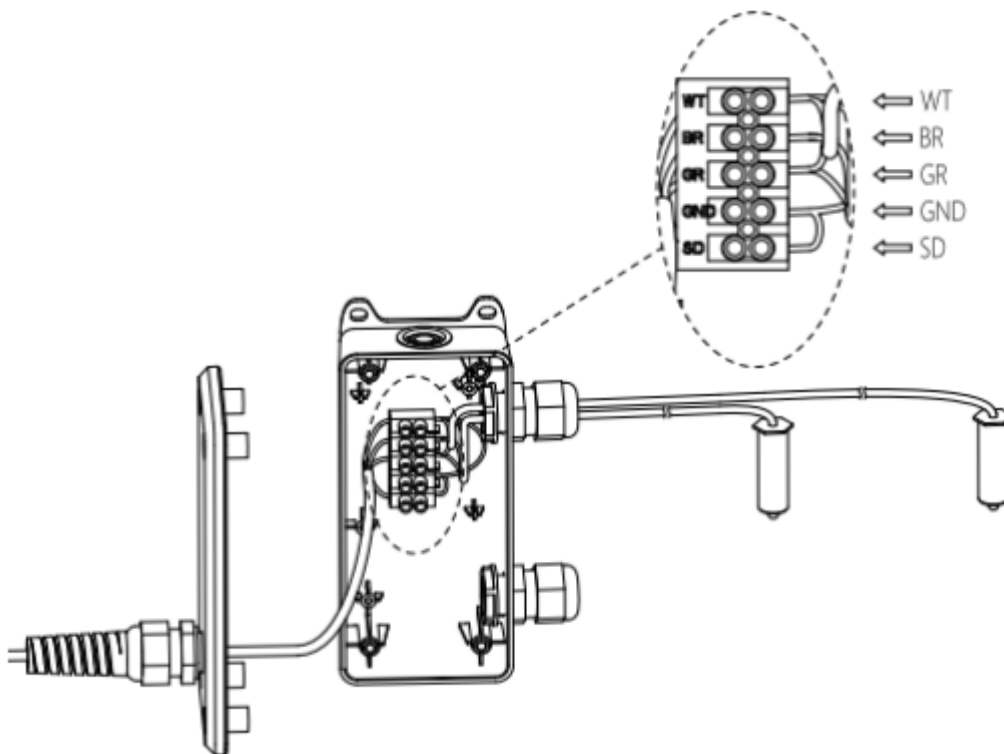


1. To connect the spring wire to the motor, you need to remove the 8.2K resistor and short wire from the original safety terminal, and then connect the spring wire to the safety terminal from left to right according to the color of the wire.
2. Input +12V, the green wire is connected to SINA, and the black wire is connected to SD.



1. A torsion-resistant waterproof connector is installed on the spring wire bracket, and then fixed on the side of the door frame by bolts, and the long straight end of the spring wire passes through the torsion-resistant waterproof connector to connect to the motor.

Note: After the spring wire passes through the torsion-resistant waterproof connector, the nut of the waterproof connector needs to be tightened to prevent the spring wire from sliding.



1. The spring wire is connected to the left side of the wiring terminal in the safety junction box, and WT and GND need to be short-circuited.

2. The white wire of the spring wire is connected to WT, the red wire is connected to BR, the green wire is connected to GR, and the black wire is connected to SD.

3. Optical edge sensors is connected to the right side of the terminal in the safety junction box, optical edge sensors white wire is connected to WT, brown wire is connected to BR, and green wire is connected to GR.

Note: When the safety junction box is installed on the door, but the door-in-door protection device is not installed, the SD on the wiring terminal in the safety junction box should be short-circuited with GND.

Maintenance

In order to make the optical edge sensors work stably for a long time, please carry out the following regular inspections.

1. Check whether the installation positions of the optical edge sensors transmitter and receiver are offset, loose or deformed.
2. Check the wiring and connections for looseness, poor contact and disconnection.
3. Check whether there is any dust or dust on the detection surface.
4. Check whether there is any abnormality in the mixing degree and surrounding environmental conditions.