

User Manual

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1 Introduction

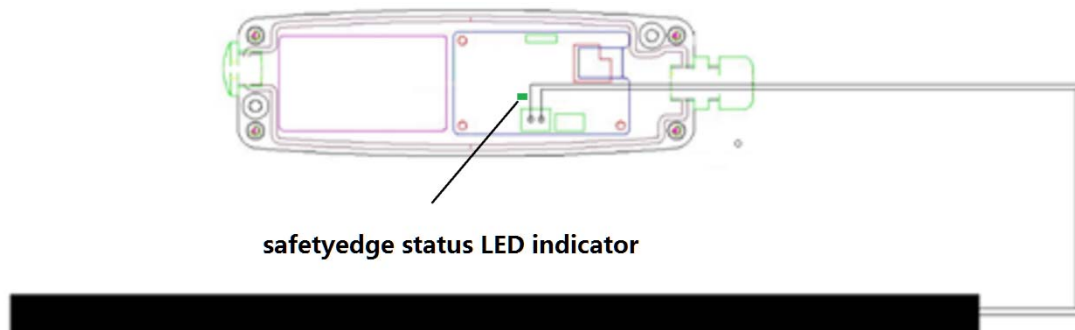
Cornell Phantom Sensing edge wireless kit includes a transmitter and a receiver. When the sensing edge is lowering with the bottom bar and an obstacle triggers the sensing edge, the transmitter will send the reverse signal immediately to the receiver. The receiver will output this reverse signal as a relay output to the door operator to interrupt the door closing process.

2 Wiring and Installation

2.1 Wiring

Transmitter wiring:

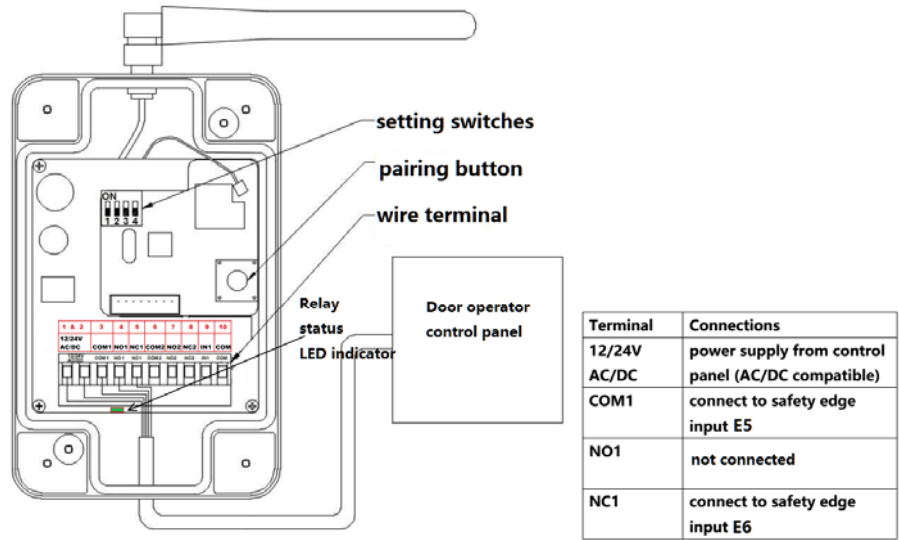
1. To comply with UL 325, Rev5, the edge terminal should be with 8.2K ohm resistance when it is not triggered and be closed circuit when it is triggered to maintain the sensor monitoring function. Wire the sensing edge to the transmitter as shown in the picture.
2. Insert the battery (come with the factory package) into the battery pack, the LED light on the PCB will indicate the transmitter starts working.
3. When sensing edge is not triggered, edge triggering indicator light will be off.



Pic 1. Transmitter Wiring

Receiver Wiring:

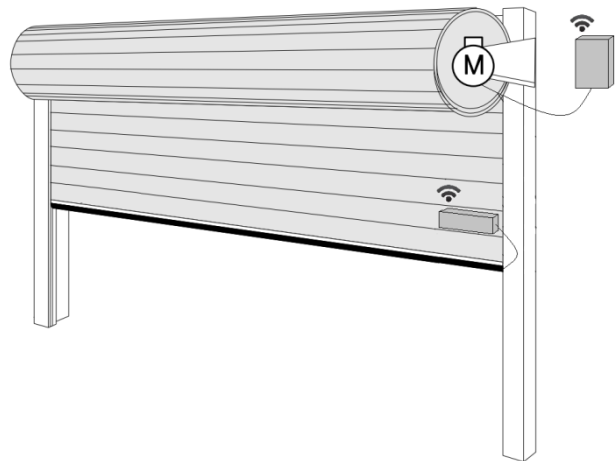
Connect the Receiver to the Operator control panel as shown below.



Pic 2. Receiver Wiring

2.2 Installation

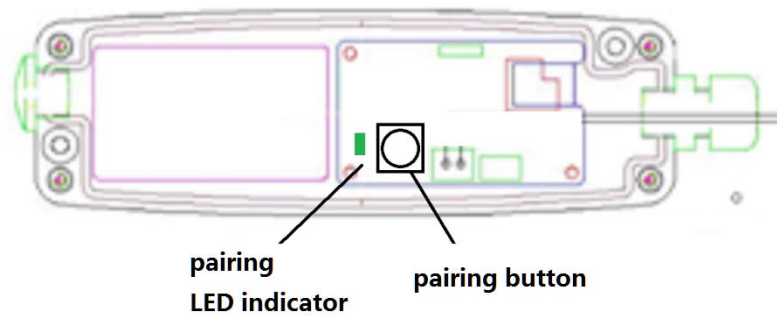
1. Mount the transmitter on door bottom bar.
2. Mount the receiver near the door operator as shown blow.



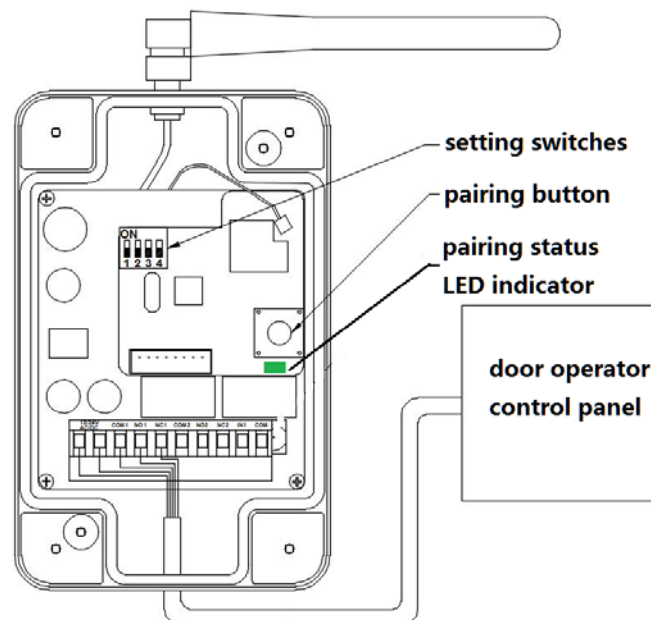
Pic 3. Mount the receiver and transmitter

3 Operation Instruction

3.1 Pair the units



Pic 4 Transmitter pair button and LED pair indicator



Pic 5 Receiver pair button and LED pair indicator

Pair the transmitter and receiver:

1. Power on the receiver, plug in the transmitter battery pack connector;
2. Press the receiver pair button for 3 seconds, Green LED light on, release the button;
3. Press the transmitter pair button for 3 seconds, Green LED light on and start flashing, release the button;
4. Transmitter LED light turn from flashing status to solid on for 5 seconds, pairing complete.

Unlink the transmitter and receiver:

1. Press the transmitter pairing button for 3 seconds, Red light on and start flashing, release button;
2. Red light turn from flashing status to off, disconnection complete;

3. Only if transmitter is disconnected from one network, it could be connect to another network.

3.2 Function Test

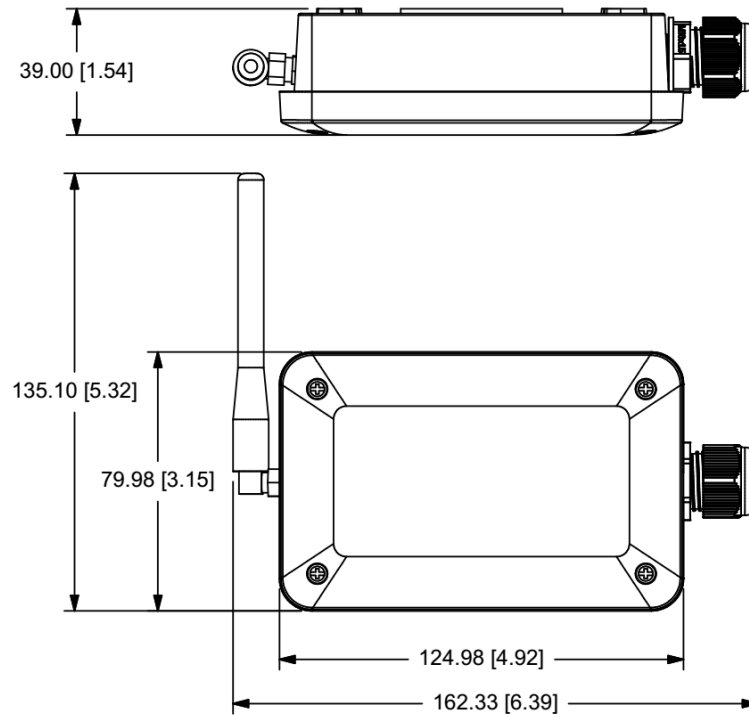
1. Install and wire the transmitter and receiver, and then switch the power on; Make sure the transmitter and receiver are properly paired.
2. For your safety, do not test the sensing edge on the moving door in the beginning;
3. Press the sensing edge, see if the relay in receiver will engage and the LED indicator for Relay status will switch on when the sensing edge is pressed;
4. Test the unit while the door is closing. When the door is closing, press the sensing edge, see if the door will stop and reverse.

ATTENTION! USE TOOLS INSTEAD OF YOUR BODY TO TRIGGER THE SENSING EDGE!

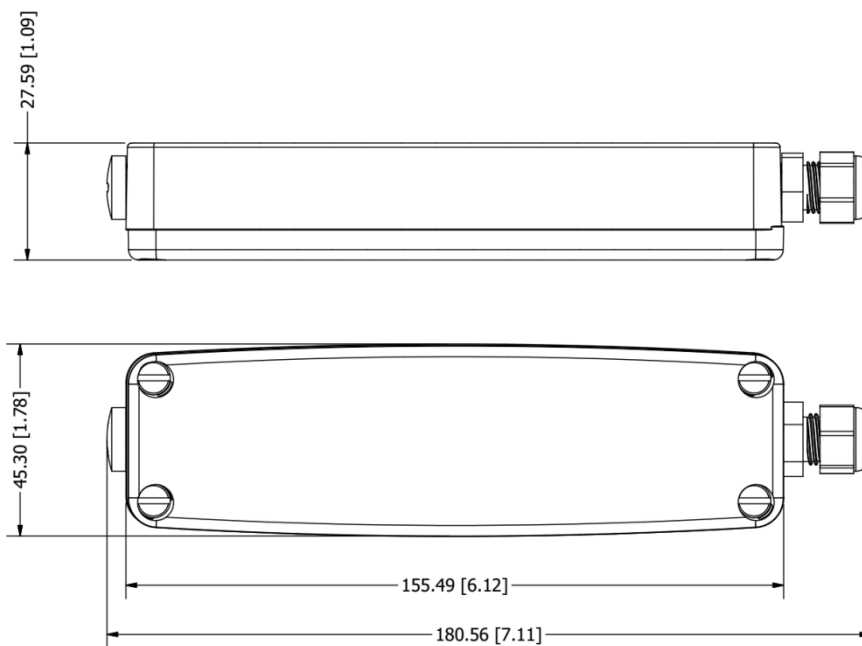
4 Electrical Characteristic

Parameter	Description
Communication	Zigbee 2.4GHz
Trigger react time	140ms
Receiver Power Supply	24V AC/DC Current <100mA
Receiver Dimension	18cm*8cm*4cm
Transmitter Battery	3.6V Lithium-thionyl Chloride Battery 2400mAh * 2
Transmitter Battery Life	3 years
Transmitter Dimension	4.5cm*15.5cm*2.7cm
IP rating	IP55

5 Dimensions



Pic 5 Receiver Dimensions Unit: mm[inch]



Pic 6 Transmitter Dimensions Unit: mm[inch]

Federal Communications Commission (FCC) Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications made to this device not expressly approved by CornellCookson Inc. may void the FCC authorization to operate this device.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF exposure statement:

The transmitter must not be colocated or operated in conjunction with any other antenna or transmitter. This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.