

SmartSync™

Remote Control, Wireless

User Manual

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Section 2 – Safety Check List

Rolling doors are large, movable objects. They move with the help of electric motors or manual operators (chain, crank, push up, etc), and most have springs under high tension. These items and their components can cause injury. In order to avoid injury to yourself and others, please follow the instructions in this manual.

- Review the potential hazards and preventative measures listed below:

Table 2.1 - Potential Hazards and Preventative Measures

Potential Hazard		Preventative Measure
	⚠ DANGER Pinned or crushed by closing door.	<ul style="list-style-type: none"> • Keep yourself and others clear of opening while door is in motion. • Do not allow children to play near or operate door. • Do not operate if door becomes jammed or broken.
	⚠ WARNING Struck by adjusting wheel bar while applying spring turns.	<ul style="list-style-type: none"> • Be sure bar is adequate in strength and long enough to allow installer to apply the necessary torque. • Make sure bar is fully seated into the adjusting wheel slot before applying pressure. • Use two bars while applying turns to the adjusting wheel.
	⚠ WARNING Electrical shock.	<ul style="list-style-type: none"> • Make sure electrical operator is properly grounded. • Turn off source power completely prior to servicing the motor. • Make sure wires are clear of any moving or potentially moving parts. • Avoid pinching wires when installing the motor cover.
	⚠ WARNING Pinched by moving components.	<ul style="list-style-type: none"> • Make sure the motor is turned off and unplugged before working with moving parts such as roller chain and sprockets, drop-out mechanisms, adjusting wheels, etc. • Locate the possible pinch-points of the unit (Drive chain, coil area, bottom bar, etc.) Do not operate the door while someone is near these areas.

- Check the following during installation and before leaving the job site:
 - a. If the unit has tension springs, be sure the proper amount of tension is applied to the torsion springs, in order to properly counterbalance the weight of the curtain.
 - b. Securely fasten the tension adjusting wheel in place with the appropriate hardware provided.
 - c. Check that the keys and/or cotter pins have been set in place and fit properly at all sprockets or gears.
 - d. Check that the setscrews in each sprocket or gear (one over the key and one offset from the key) have been tightened properly.
 - e. Check all fasteners holding the unit to the building structures.
 - f. Check all fasteners used to assemble the components of the unit together.
 - g. Instruct owner or representative in the proper method of operating the door.

Section 3 – Introduction

- **Introduction**

The SmartSync Wireless edge kit includes a transmitter and a receiver. When the door is closing and an obstacle is triggering the sensing edge, the transmitter will send the trigger signal immediately to the receiver. The receiver will output this trigger signal as a relay output to the door operator to interrupt the door closing process and cause the door to open. The optional remote can be paired to multiple receivers which would allow one remote to open to multiple doors.

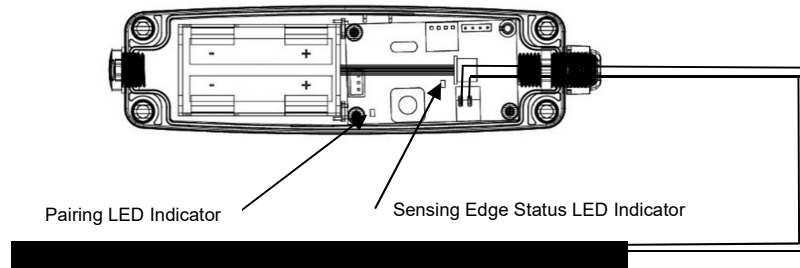
Section 4 – Wiring & Installation

▪ Transmitter Wiring

1. Wire the two wire 8.2K/10K Ohm ELR type sensing edge to the transmitter as shown in **Figure 4.1**. Polarity doesn't matter.
2. Insert the battery that is provided into the battery pack.
3. Edge triggering indicator is normally off. It will light up when the sensing edge is triggered.

Note: A Miller monitored edge (ELR type is required for Phantom Wireless. This complies w/UL 325-2010.

Figure 4.1 Transmitter Wiring

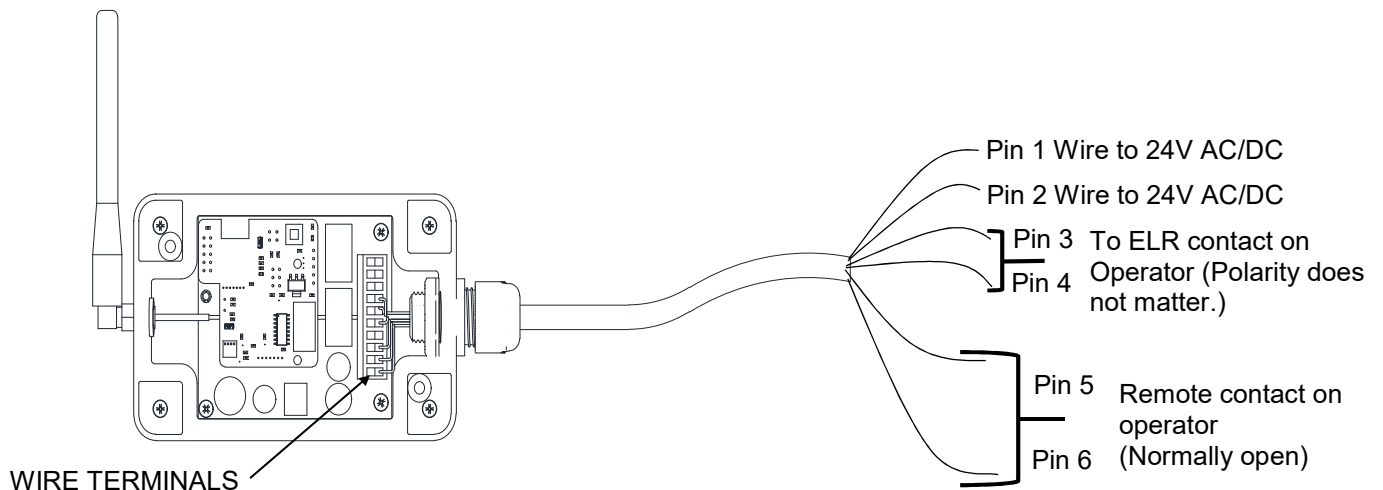


▪ Receiver Wiring

1. Connect the receiver to the operator control panel as shown in **Figure 4.2**. See **Figure 5.1** for wire terminal connections.

Note: Refer to operator manual for connection points.

Figure 4.2 Receiver Wiring



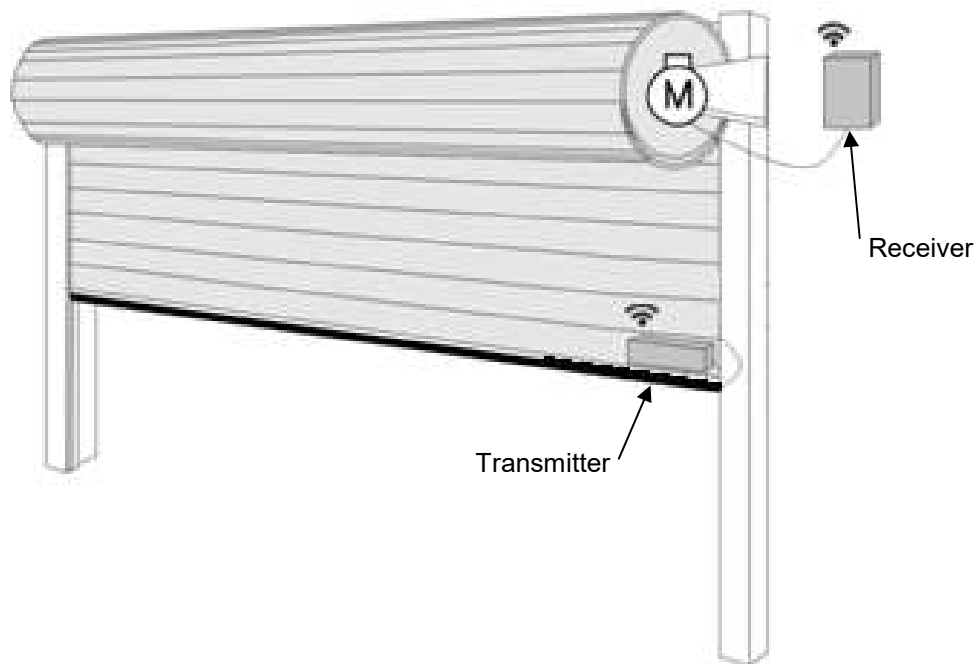
Note: Pin 5 and Pin 6 to be used when SmartSync remote is ordered.

Section 4 – Wiring & Installation

▪ Installation

1. Mount the transmitter on the door bottom bar as shown in **Figure 4.3**. Use provided double-sided tape or mounting holes w/ (4) #4 screws. Use (1) #4 screw to provide strain relief on pigtail.
2. Mount the receiver on or near the door operator as shown in **Figure 4.3**. Use provided double-sided tape for water resistant enclosure or mounting holes w/ (4) #4 screws for NEMA 1 enclosure.

Figure 4.3 Receiver and Transmitter Mounting



Section 5 - Operation

▪ Pairing the Transmitter and Receiver

1. **Power off the motor.**
2. Wire the receiver and transmitter as **Figure 4.1** and **Figure 4.2**.
3. Press and hold the transmitter pair button, Green LED will flash, then release the pairing button. The transmitter is now in pairing for 30 seconds. (Refer to **Figure 5.2**).
4. **Power on the motor, immediately, receiver will be in pair mode for 30 seconds.**
5. If pairing is successful, the pairing LED indicator on the transmitter should be solid green, and receiver should beep once.
6. If pairing is unsuccessful, the pairing LED indicator on the transmitter will flash yellow. Repeat steps 3 & 4 to retry.

Note: If pairing isn't achieved after 3 attempts contact customer service: +1-800-294-4358

▪ Unpairing the Transmitter and Receiver

1. **Power on the motor.**
2. Press and hold the transmitter pairing button until the yellow LED starts flashing on the pairing LED indicator, the unpairing operation is completed. A long beep from receiver will confirm the unpairing procedure is completed.

Note: The transmitter must be disconnected from one receiver in order to be connected to another.

▪ Replace Damaged/Broken Transmitter

1. Power on the motor and receiver.
2. Briefly press and hold the receiver pairing button, see **Figure 5.1**, once to RESET monitoring function to forget lost/damage safety devices.
3. Follow the pairing procedure to pair the transmitter to the receiver.

▪ Trouble Solving Procedure

1. Check the receiver wiring to the motor operator with **Figure 4.2**, and ensure motor is configured for ELR resistor type sensing edge.
2. Confirm the Transmitter is powered by a new pair of batteries (ER14505, 3.6V battery) **DO NOT USE AA BATTERIES.**
3. Briefly press the reset button on the receiver to refresh the receiver, network configuration won't change.
4. If the receiver and transmitter are not paired, follow the pairing procedures.

Note: The transmitter must be disconnected from one network in order to be connected to another

Section 5 - Operation

Figure 5.1 Receiver pairing button and LED indicator

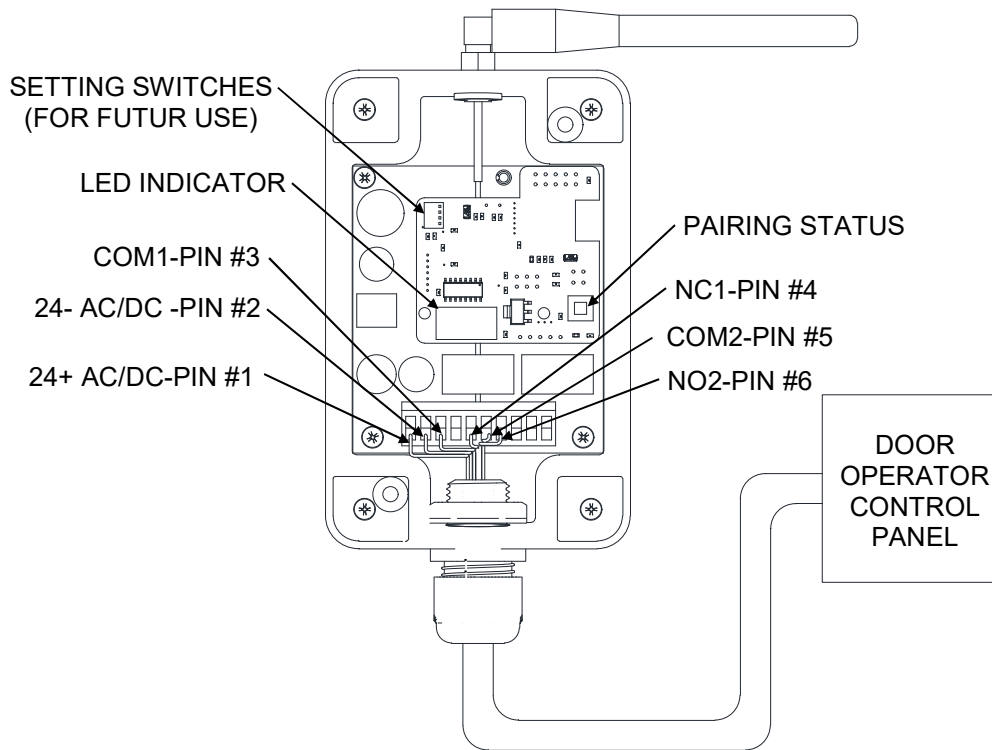
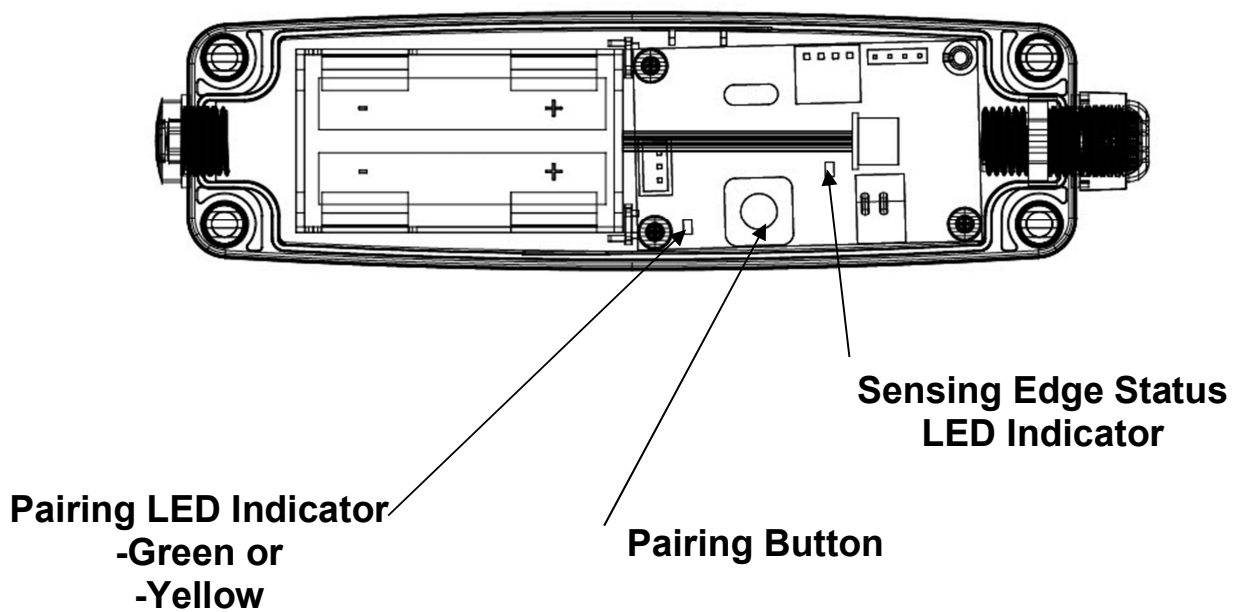


Figure 5.2 Transmitter pair button and LED pair indicator



Section 5 - Operation

▪ Test the Sensing Edge

1. For your safety, do not test the Sensing Edge on a moving door in the beginning.
2. When the door is still, press the Sensing Edge. If the Receiver Green LED blinks, then the Sensing Edge is working properly.
3. 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. Make sure testing occurs above 6" of the ground.

Note: **USE TOOLS INSTEAD OF YOUR BODY TO TRIGGER THE SENSING EDGE!**

▪ Indicators

1. The Digit LCD on the receiver will show the status of the receiver:

Indicator	Meaning
noP	Not Paired
C01	1 sensing edge, normal operation
E01	Sensing edge trigger
E02	Transmitter offline
E03	Batteries low

▪ Function Test

⚠ WARNING : FOR YOUR SAFETY, DO NOT TEST THE SENSING EDGE ON A MOVING DOOR AT THIS POINT.

⚠ WARNING : USE TOOLS INSTEAD OF YOUR BODY TO TRIGGER THE SENSING EDGE!

4. When the door is still, press the sensing edge, see if the relay in receiver will "click" and the LED indicator for relay status will switch on when the sensing edge is pressed.
5. 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. **Make sure testing occurs above 6" of the ground.**

▪ Indicators

2. Press and release the pairing button in less than 1 second on the transmitter to check the status of the transmitter:

Pairing LED Indicator	Meaning
Green LED flashes 3 times	Transmitter is paired
Yellow LED flashes 3 times	Transmitter is not paired
Red LED on	Sensing edge triggered

Section 5 - Operation

3. The LED on the receiver will show the status of the receiver:

Indicator	Meaning
Red LED flashing	Normal operation
Green relay indicator LED by the wire terminal 3-5. See Figure 5.1	On for output normal (not triggered)
	Off for output triggered (preventing the door to close)

Section 6 – Electrical

▪ Electrical Characteristics

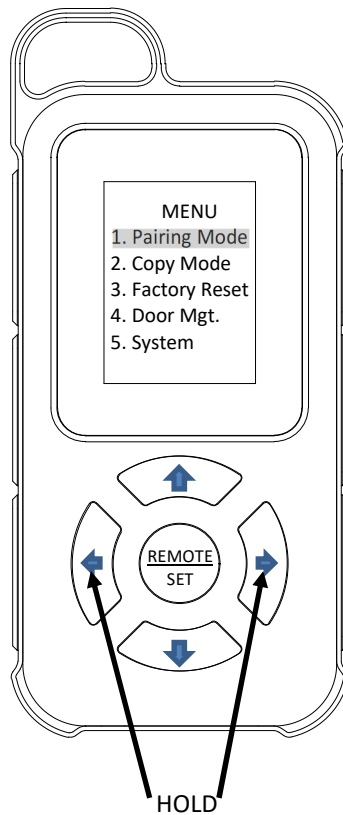
Parameter	Description
Communication	Zigbee 2.4GHz
Trigger react time	140ms
Receiver Power Supply	24V AC/DC Current <100mA
Receiver Dimension	7.09"*3.15"*1.57" (18cm*8cm*4cm)
Transmitter Battery	3.6V Lithium-thionyl Chloride Battery 2400mAh * 2
Transmitter Dimension	1.77"*6.1"*1.07" (4.5cm*15.5cm*2.7cm)
Transmitter IP rating for	IP67 NEMA 4 equivalent

Section 7 – Remote

▪ Pairing the Remote

1. Press “Remote/Set” on the remote then left and right arrows simultaneously to enter “Pairing mode” in the menu.
2. Once in pairing mode, cycle the power to the motor off then on. **See figure 7.1.**
3. Once power has been restored to the motor, a “Receiver was found” notification will pop up. Select the right arrow to confirm receiver. If there is a failure, repeat steps 1-3.
4. **Once receiver has been confirmed, select door number. Select up or down arrow to select door letter and left or right arrow to select number. To save, press “Remote/set” button.**
5. Once pairing has been completed, select paired door using left or right arrows. Once door is selected, press “Remote/set” to open or close door.

Figure 7.1 Remote Pairing



▪ Copying the Remote

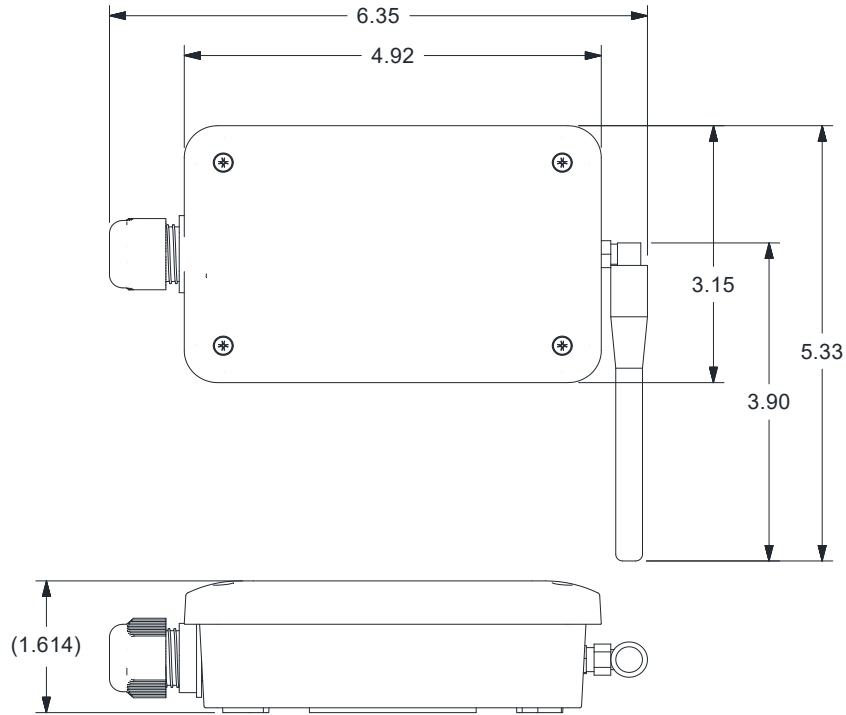
1. Press “Remote/Set” on the remote then left and right arrows simultaneously to enter “Copy mode” in the menu.
2. Once in Copy mode, press “Remote/set” to select “Master” role. Then “Wait...Network Init” screen will pop up.
3. Press right arrow to start transmission.
4. On “Slave” remote, repeat steps 1 and 2 but select option 2 for slave.
5. Press right arrow to start receiving process on “slave” remote.
6. Press right arrow on “master” remote to complete copy process.
7. Once the copy has been completed, press “Remote/set” and cycle to paired door using left or right arrows. Once door is selected, press “Remote/set” to open or close door.

Note: If pairing isn't achieved after 3 attempts contact customer service: +1-800-294-4358

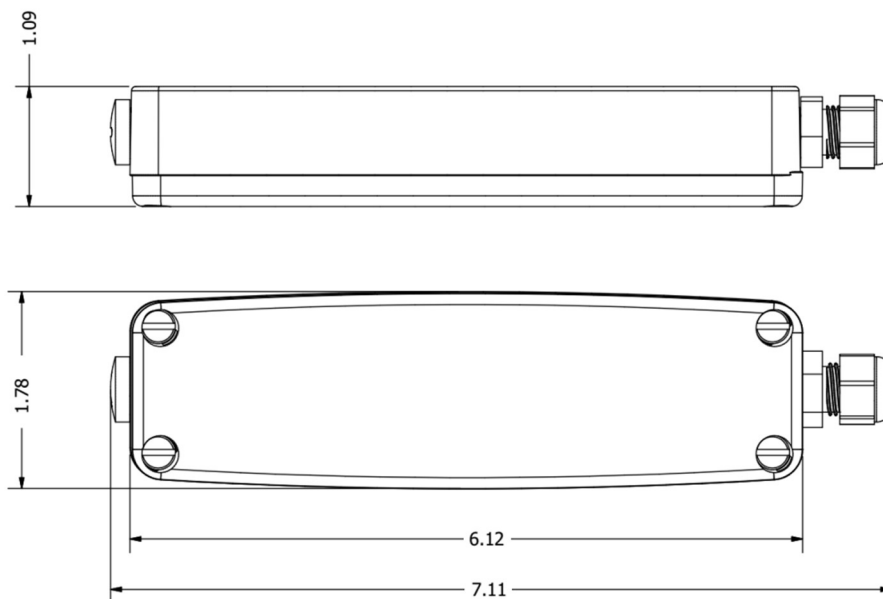
Section 8 – Dimensions

▪ Dimensions

Receiver
Units: Inch



Transmitter
Units: Inch



Section 8 – Dimensions

Remote
Units: Inch

