

# Long Ranger-650-RX-4X

## Single Channel RF Transmitter & Receiver

### General

The Long Ranger-650 system comprises transmitter with fixed code and a receiver that can learn up to 15 different codes. The receiver can learn the codes on a first in first out basis. The 16th code will erase the first code programmed.

### Installation Notes

Mount the receiver where it is not surrounded by metal and where it is not exposed to the weather and moisture. For outdoor application please use the LR-650-RX-4X receiver in NEMA 4X housing.

For best range, pull the antenna wire as long and straight as possible. If the receiver receives interference from local RF activity (airport, police station ), fold the antenna to different lengths to minimize the interference. **DO NOT CUT THE ANTENNA WIRE.**

### Connections:

RED = +12-24V, BLACK = -12-24V, GREEN = Common, WHITE = Normally Open,  
BROWN = Normally Closed.

### Code Learning

1. Press mode switch #1 on the receiver for 3 seconds. The green LED will start flashing quickly.
2. While the green LED is flashing , press a button on the transmitter. The green LED will flash once and turn off to confirm that the code was learned. If all the transmitters have the same code there is no need for further programming.
3. Repeat step 1 and 2 if you want to program the receiver with additional codes.

### Note regarding code learning

Receiver will learn code only once. After the receiver learned 15 different codes and a new code is programmed the earliest code will be erased.

To clear all codes press the mode switch #1 for 3 seconds, when the LED starts flashing press the mode switch #1 again for 3 seconds. The LED will flash twice indicating that all the codes were deleted.

### Programming Receiver Relay Output Modes

Output Mode	Jumpers	
4-second momentary (default)	LP1 uncut	LP2 uncut
1-second momentary	LP1 uncut	LP2 cut
Toggle Open / Close	LP1 cut	LP2 uncut
Latch to Open until reset by switch #1	LP1 cut	LP2 cut

### Ordering Information

LR-650-TX - Transmitter	LR-650-RX - Receiver
LR-650-BA - Battery	LR-650-RX-4X Outdoor Receiver