

Overview

The Low Voltage Relay Receiver connects wireless light switches and sensors to new or existing control systems. The low voltage receiver responds to up to 80 different transmitters and provides 4 or 8 output channels (dry contact or 8-30V for relay and contactor applications). The outputs can be programmed as either momentary or maintained contacts

Compatible Devices

- Single Rocker Self-powered Wireless Light Switches; E9T-S1Axx
- Dual Rocker Self-powered Wireless Light Switches; E9T-S2Axx
- Dual Rocker Handheld Remote; E9T-S2Hxx
- Key Card Access Switch; E9T-C2AWH
- More transmitters available

Components Included

The following items are included with this product:

- A -- (1) ILLUMRA 4 Ch. / 8 Ch. Relay Receiver

Tools Needed for Installation

- Pencil or ball point pen (stylus)

Installation

To install the Low Voltage Relay Receiver, select your application from the options below. Follow the instructions for that application. For transmitter installation instructions, see appropriate installation guide(s).

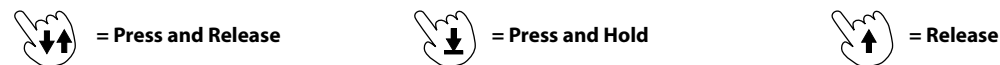
CAUTION/NOTES:

- Depending on circumstances, it may be convenient to pre-program the receiver prior to final installation.
- Always follow local electrical codes when installing this device. Installation should be performed by a qualified electrician.
- ILLUMRA Relay Receivers are intended only for use indoors, in dry locations, and with permanently installed fixtures.
- ILLUMRA Relay Receivers should NOT be installed in a location where the unit will be in close proximity to the light bulb(s) or other sources of heat, such as above a ceiling hugger fixture, particularly with higher wattage loads. (See "Operating Temperature" on specifications table.)
- Exceeding the voltage or current ratings of the LVRX-4 / 8 will void the warranty and may damage the unit.
- For optimal radio performance do not mount or place receivers close to the floor or inside a metal housing.

Teach/Learn Procedure (a Transmitter teaches a Receiver, a Receiver learns a Transmitter)

The receiver must be powered when teaching. After teaching a receiver, settings are retained when power is disconnected. The receiver sensitivity is reduced when in Learn Mode to prevent unintentionally teaching unwanted transmitters to the receiver. Transmitters should be within 15 feet (5 meters) of the receiver when teaching. Teach the receiver in any of the modes below.

Step 1: Determine the Desired Behavior

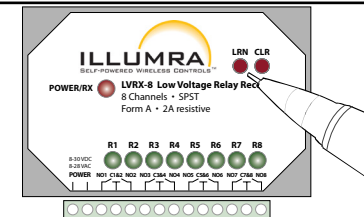


★ = most popular behavior

	SWITCHES	KEY CARD READER	VING(TM) CARD READER	MAGNETIC SENSOR
Learn Mode 1	<p>★ ROCKER</p> <p>Top of the rocker turns on load. Bottom of the rocker turns off load. Teach either the top or the bottom; the other half is automatically taught.</p>	FUTURE USE	FUTURE USE	<p>★ OPEN-OFF, CLOSED-ON</p> <p>Normally used to disable HVAC if a door or window is open.</p>
Learn Mode 2	<p>MOMENTARY</p> <p>Press and hold one side of the rocker to turn on load. Release to turn off. Each side of the rocker must be learned separately.</p>	<p>★ HOTEL GUEST CARD</p> <p>Insert card to turn on load. Remove card to turn off load.</p>	<p>★ HOTEL GUEST CARD</p> <p>Insert card to turn on load. Remove card to turn off load.</p>	FUTURE USE

Step 2: Teach the Receiver

Clear All Instructions: The CLR button can be used to clear all of the memory in the receiver (erases all previously learned transmitters). Press and hold the clear button (CLR) for several seconds. When the light starts to blink, this indicates that the memory has been cleared and that the receiver is in learn mode one.



PART	ACTION	RESULT	NOTES
A Enter Learn Mode 1	<p>Press LRN 0.5 SEC, Release</p>	<p>1</p> <p>Channel one LED flashes pattern on device.</p>	<p>This blinking pattern represents a light connected to the output.</p> <p>Part B applies to the eight channel relay receivers just the same, switching up through the eight channels before entering Mode 2.</p>
B Select Output	<p>QUICK</p> <p>Press and Release LRN quickly</p> <p>This advances to Learn Output 2. Repeat to advance to Outputs 3 or 4 and then to Mode 2 for Output 1 and so on...</p>	<p>Mode 2 (faster pattern)</p> <p>LED 1 CH1 CH2 CH3 CH4 and so on... LED 2 CH1 CH2 CH3 CH4 and so on... LED 3 CH1 CH2 CH3 CH4 and so on... LED 4 CH1 CH2 CH3 CH4 and so on...</p>	<p>More than one transmitter can be learned on each channel. To do this, learn each transmitter as explained to the left. After the 3 second learn (light on) indication, teach another transmitter, and so on.</p>
C Learn Transmitter	<p>Press "Teach" button ONCE</p>	<p>LED is on for three seconds, then resumes blinking Learn Mode Pattern. Transmitter has been learned. Learn another transmitter (Part C), select another mode (Part B), or exit (Part D).</p>	<p>A transmitter can also be unlearned by a receiver by repeating part C. Instead of a 3 second learn indication (light on) the receiver will give a 3 second unlearn indication (light off).</p>
D Exit Configuration	<p>Wait 30 SEC (or press LRN 2 SEC, Release)</p>	<p>LEDs stop blinking. Device is configured and ready to use.</p>	

Specifications

	E9R-R04FP-4	E9R-R04FP-8
Range	50-150 feet (typical)	
Frequency	902 MHz	
Power Supply Input Rating	8-28 VAC or 8-30 VDC 250 mA	
Relay Output	0-30 VAC or 0-30 VDC 2A	
Channels	4	8
Memory	Stores up to 80 switch IDs	
Dimensions	5.12 x 3.21 x 1.1 inches (10.7 x 7.2 x 2.9 cm)	
Operating Temperature	-13° to +140°F (-25° to +60°C)	
Storage Temperature	-40° to +140°F (-40° to +60°C)	
Radio Certification	FCC (United States) SZV-TCM2XXU, I.C. (Canada) 5713A-TCM2XXU	

Diagrams

Figure : LVRX-8 Basic Wiring Diagram

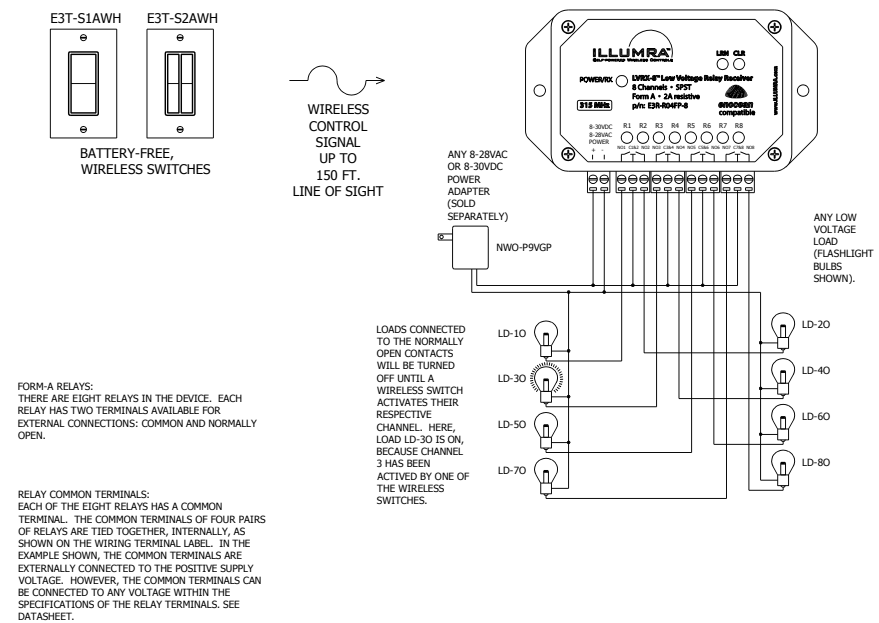
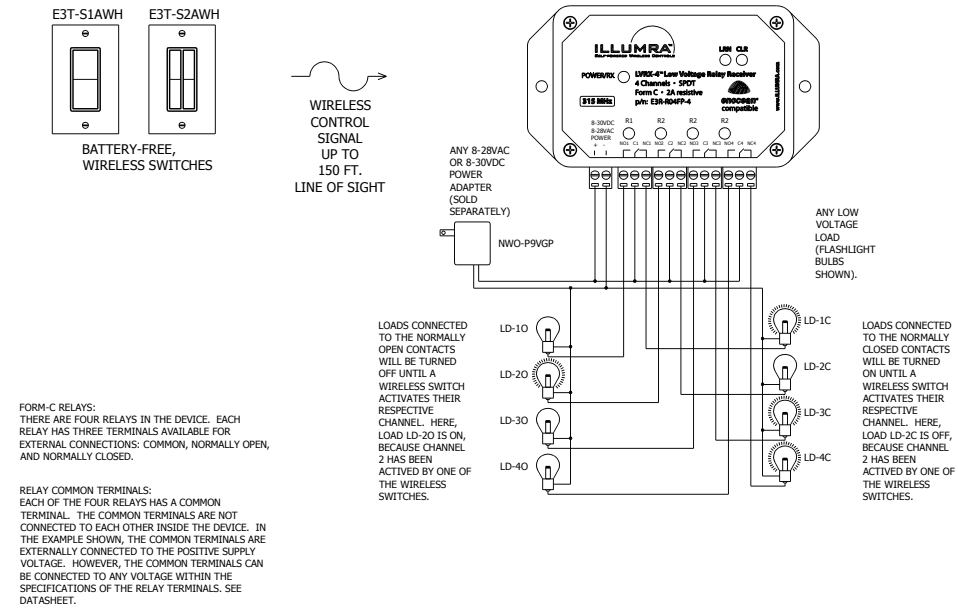


Figure : LVRX-4 Basic Wiring Diagram



This device or certain aspects thereof is protected by at least one U.S. or international patent or has at least one such patent application pending.

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Contains FCC ID: SZV-TCM2XXC
The enclosed device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (i) this device may not cause harmful interference and (ii) this device must accept any interference received, including interference that may cause undesired operation.

Contains IC: 5713A-TCM2XXC