

- Read all installation steps for this option before taking any action to install SLT.
- It may be convenient to associate the SLT with all appropriate receivers prior to final installation. Steps 3-9 explain how to associate an SLT with a receiver. Test the range of the SLT before final installation.
- Make sure the SLT is within 16 feet (5 meters) of the desired receiver when programming. Receivers have reduced range during programming
- WARNING: To avoid risk of fire, shock, or death, TURN OFF POWER at circuit breaker or fuse and verify that it is OFF before installation begins. Make sure that it remains OFF until installation is complete.
- Connect wires as shown in Figure A. Twist wire nuts on clockwise making sure no bare wires show. Wrap connections with electrical tape.
- Programming: Restore power and follow receiver programming instructions found in receiver installation guide. For SLT Step 6: installations, program the receiver using Rocker Mode
- To associate an SLT with a receiver, simply press the Teach button (labeled "TCH") on the SLT while the receiver is in the desired Learn Step 7: Mode. (See Figure B.) This sends a signal containing the unique ID of the SLT to the receiver. The receiver memorizes the ID and knows to respond to the SLT in the future.
- Step 8: Activation: Test SLT. Once a Switch Leg Transmitter has been associated with a receiver, whenever power is provided to or removed from the SLT, the SLT transmits a wireless signal to control the receiver. (If SLT is not working, review wiring and programming instructions for both the SLT and the receiver.)
- Step 9: Stow all wires and SLT in wiring box to complete installation.

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.

Note: When the device is not in a learn mode and is operational, the CLR button can be pressed quickly to toggle the output. This is convinent in the Scene Mode application (See Below).

Overview

The Switch Leg TransmitterTM (SLT) replaces wires between a switch and an electrical load with an RF control signal. The SLT senses status of a photocell, timer, or manual switch master circuit to control wireless slave receiver(s).

Compatible Devices

- 3-Wire Relay; E3R-Rxx-3HOBP
- 5-Wire Relay; E3R-Rxx-5IBBP
- Plug-in Relay; E3R-R12GP-1
- 4-Channel Low Voltage Receiver; E3R-MICFP-04
- Room Controller; E3X-MRCFP-xx
- Thermostat; E3X-T02-U2W
- See website for more available receivers

Components Included

The following items are included with this product: ■ A -- (1) ILLUMRA Switch Leg Transmitter

Tools Needed for Installation

- Pencil or ball point pen
- Wire nuts
- Electrical tape

Installation

WARNING: To avoid risk of fire, shock, or death, TURN OFF POWER at circuit breaker or fuse and verify that it is OFF before installation begins. Make sure that it remains OFF until installation is complete.

CAUTION/NOTES:

- Always follow local electrical codes when installing this device. Installation should be performed by a qualified electrician.
- ILLUMRA SLTs are intended only for use indoors, in dry locations, and with permanantly installed fixtures.
- ILLUMRA SLTs should NOT be installed in locations where the units will be in close proximity to light bulbs or other sources of heat, such as above a ceiling hugger fixture, particularly with higher wattage loads. (See "Operating Temperature" on specifications table.)
- For in-wall installation, a wiring box must be used. For ceiling installation make wire connections inside a junction box. Ensure that the temperature in the ceiling box will not exceed 50 degrees C (see specifications). For best wireless signal performance install receiver in plastic box away from floor and away from metal objects.



Step 2: Select Other Modes

Step 1: Teach the Target Device



RESULT

3 SEC Indication light on the target device is on for three econds, then resumes blinking Learn Mode Pattern SLT has been learned.

Lights stop blinking. Device is configured and ready to use

NOTES et devices have duced range during rogramming (16 feet eters of the desired eiver).

onnect wires as show n Figure A. Twist wire nuts on clockwise naking sure no bare wires show.Wrap onnections with electrical tape.

After the target device has learned the SLT packet part B can be epeated to unlearn t . SLT (see device structions)

<u>RESULT</u>			<u>NOTES</u>	
•	It is important to understand that the entire device needs to be powered down. This can be done with a switch or breaker, or other means.	The TCH and MODE buttons have different functions in each of the two Transmission Modes.		
		SLT Mode		
	0	ТСН	MODE	
		Teach	Status	
		Packet	Packet	
Switch between transmission modes			PTM Mode	
	There are two transmission modes: SLT (default), and PTM.	TCH	MODE	
•	In SLT mode the SLT will transmit a ON/OFF packet every time the SLT is powered ON or powered OFF. In addition, the SLT will also send a status packet every ten seconds.	ON Packet	OFF Packet	

Specifications

	E3T-R02-2INTP	E3T-R12-2INTP	E3T-R24-2INTP	E3T-R27-2INTP	
Range	50-150 feet (typical)				
Frequency	315 MHz				
Power Supply Input Rating	24 VAC 50/60 Hz	120 VAC 50/60 Hz	240 VAC 50/60 Hz	277 VAC 50/60 Hz	
Operating Temperature	14° to +122°F (-10° to +50°C)				
Dimensions	2.11 x 1.73 x 1.09 inches (54 x 44 x 28 mm)				
Radio Certification	F	FCC (United States) SZV-TCM2XXC I.C. (Canada) 5713A-TCM2XXC			
Safety Approval	ETI	ETL (United States) UL244A and UL2043 ETL (Canada) CSAc22.2#14-05			
Addressing	Factory set unique ID (1 of 4 billion)				

Diagrams





Always install devices in accordance with local electrical regulations.

Figure A: Basic Installation of Switch Leg Transmitter



Figure C: Disable HVAC Unit When Existing Light Circuit is Turned Off

DISABLE HVAC UNIT WHEN EXISTING LIGHT FIXTURE IS TURNED OFF

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WHEN THE LIGHT IN THE ROOM IS TURNED ON USING THE EXISTING SWITCH, THE SLT SENSOR IS TRIGGERED TO TRANSMIT A WIRELESS CONTROL SIGNAL TO THE ILLUMRA THERMOSTAT, WHICH IN TURN ACTIVATES THE HVAC UNIT. WHEN THE LIGHTS ARE TURNED OFF, THE HVAC UNIT REVERTS TO A SET-BACK SETTING.

BREAKER PANEL #1







E3R-120-TSTCP

HVAC UNIT





protected by at least one U.S. or international patent or has at least one such patent applica-

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This device or certain aspects thereof is

property of their respective owners.

tion pending.

ILLUMRA is a trademark of Ad Hoc Electronics, LLC. Other trademarks herein are the Contains FCC ID: SZV-TCM2XXC Contains IC: 5713A-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.

ETL (US) – Conforms to UL STD 244A. This device was tested according to and was found to comply with UL 244A Solid State Controls for Appliances and UL 2043 UL Standard for Safety Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces.

ETL (Canada) – Certified to CAN/CSA STD C22.2 No. 14-05. This device was tested according to and was found to comply with CAN/CSA STD C22.2 No. 14-05.