Switch Leg Transmitter

Cat. No. WSSLT-R10, WSSLT-010

4-Channel Switch Leg Transmitter

Cat. No. WSSLT-GP0

enocean alliance
No Wires. No Batteries. No Limits.

LEVITON

PK-93823-10-00-0B

INSTALLATION — **English**

WARNINGS AND CAUTIONS:

- TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH ELECTRICAL CODES AND REGULATIONS.
- IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT AN ELECTRICIAN.
- Leviton SLTs are intended only for use indoors, in dry locations, and with permanently installed fixtures.
- Leviton 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.
- 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. **Step 4** explains 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.

DESCRIPTION

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

COMPATIBLE DEVICES

- 3-Wire Relay
- 5-Wire Relay
- Plug-in Dimmer/Relay
- Plug-in Relay
- Room Controller
- 4-Channel Low Voltage Relay
- Thermostat
- More receivers available

TOOLS NEEDED FOR INSTALLATION

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

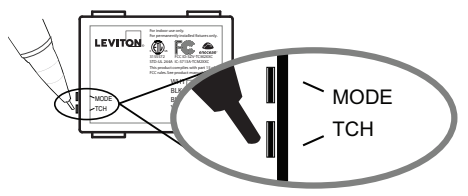
TO INSTALL

1. **WARNING:** TO AVOID FIRE, SHOCK, OR DEATH; **TURN OFF POWER** AT CIRCUIT BREAKER OR FUSE AND TEST THAT THE POWER IS OFF BEFORE WIRING!
2. Connect wires according to wiring diagram below (WSSLT-R10 & WSSLT-010). Twist wire nuts on clockwise making sure no bare wires show. Wrap connections with electrical tape.
   Connect wires according to wiring diagram below (WSSLT-GP0). Twist wire nuts on clockwise making sure no bare wires show. Wrap connections with electrical tape.
   a) Connect power (+) to the 8-28VDC IN + wire trap.
   b) Connect ground (-) to the GND wire trap.
   c) Connect a sensor signal to the IN 1 wire trap. This signal is what will trigger the SLT to transmit (Other signals may be connected to inputs 2-4 by repeating step C).
3. **Programming:** Restore power and **follow receiver programming instructions found in receiver installation guide.** For SLT installations, program the receiver using Rocker Mode.
4. 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 Mode **(See Figures).** 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 (Do not press the Learn button on the SLT multiple times while the receiver is in Learn Mode or the SLT may be accidentally deleted from or added to the receiver's memory).
5. **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).
   Advanced Features:
   Default Mode: The SLT transmits a unique radio packet that is recognized by most LevnetRF receivers. This unique packet is perfect for when you are using the SLT as a stand alone device or with multiple SLT's. The unique packet assures that there will not be interference with other SLT's. 3-way applications require the device to be put into PTM mode.
   Sense Invert: For some applications it may be convenient to transmit an "ON" signal to the receiver when the input to the SLT is asserted low, and transmit an "OFF" signal when the SLT is asserted high. The 4-channel SLT is capable of inverting the sense of its inputs to support this application.
   To invert all of the inputs, hold down the Teach (labeled TCH) button while powering up the device. The "Power" LED will blink twice to indicate that it has successfully entered into inverted mode. If the device is in inverted mode, and the Teach button is held down while powering up the device the "Power" LED will blink once indicating that it entered the non-inverted, or default mode.
   Individual inputs can also be inverted. While the device is powered, hold down the "Mode" button until the "Power" LED blinks. Any input that is asserted low (no power supplied) while the "Mode" button was held down will be in the non-inverted mode (The "OFF" signal will be sent when the input is asserted low). Any input that is asserted high (power supplied) while the "Mode" button was held down will be in the inverted mode (The "OFF" signal will be sent when the input is asserted high).
   PTM Mode (True 3-way function): The SLT transmits as default a unique radio packet that is recognized by LevNet RF products, but may not be recognized by all EnOcean compatible receivers. The SLT can be put into a PTM mode which will send a radio packet that is recognized by any standard EnOcean receiver. To enter this mode hold down the "Mode" button while powering up the device. The "Power" LED will blink twice, indicating that it has entered the PTM mode. The transmitter can be put back into the default SLT mode by holding down the "Mode" button while powering up the device. The "Power" LED will blink once, indicating that it is in the default mode.
6. Stow all wires and SLT in wiring box to complete installation.
7. Restore power at circuit breaker or fuse. **Installation is complete.**

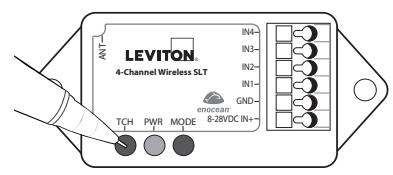
SPECIFICATIONS

	WSSLT-R10	WSSLT-010	WSSLT-GP0
Range	50-150 feet (typical)		
Frequency	315 MHz		
Power Supply Input Rating	24 VAC 50/60 Hz	120 VAC 50/60 Hz	8-28 VDC, 40mA
Inputs	N/A		30 VDC max, 100 mA max
Operating Temperature	14° to +122°F (-10° to +50°C)		-13° to +140°F (-25° to +60°C)
Storage Temperature	-40° to +140°F (-40° to +60°C)		
Dimensions	2.11 x 1.73 x 1.09 inches (54 x 44 x 28 mm)		2.88" (W) x 1.30" (H) x 0.67" (D) 7.32 cm x 3.30 cm x 1.70 cm
Antenna	Attached whip antenna (5.85")		
Radio Certification	FCC (United States) SZV-TCM2XXC I.C. (Canada) 5713A-TCM2XXC		
Safety Approval	ETL (United States) UL244A ETL (Canada) CSAc22.2#14-05		
Addressing	Factory set unique ID (1 of 4 billion)		

WSSLT-R10, WSSLT-010

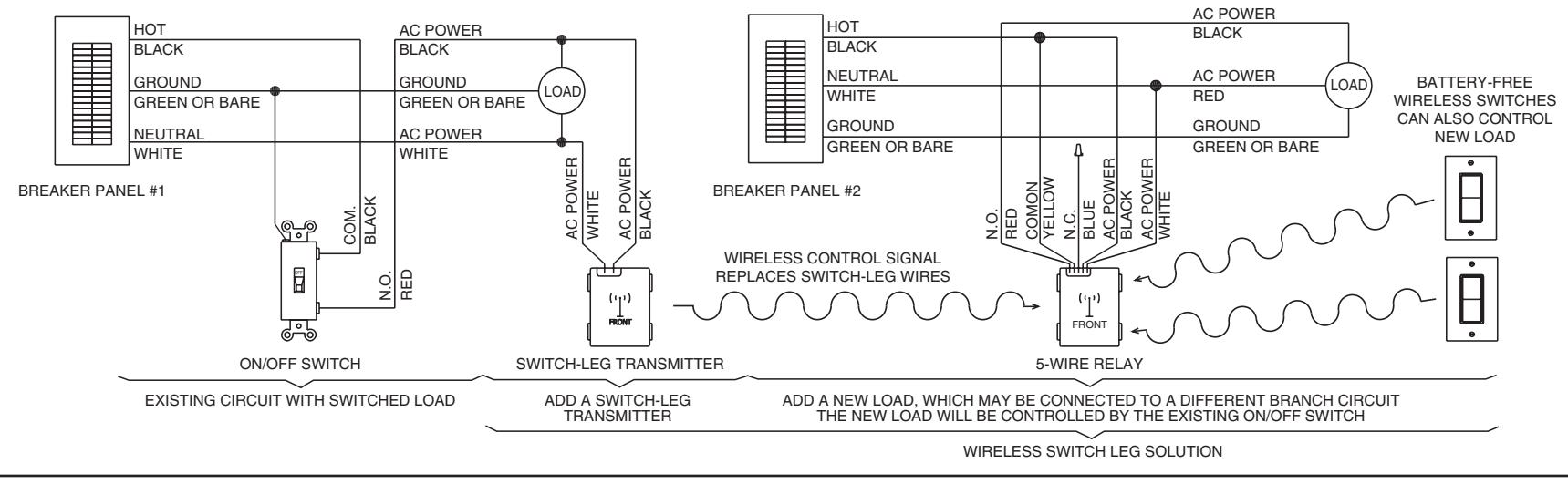


WSSLT-GP0

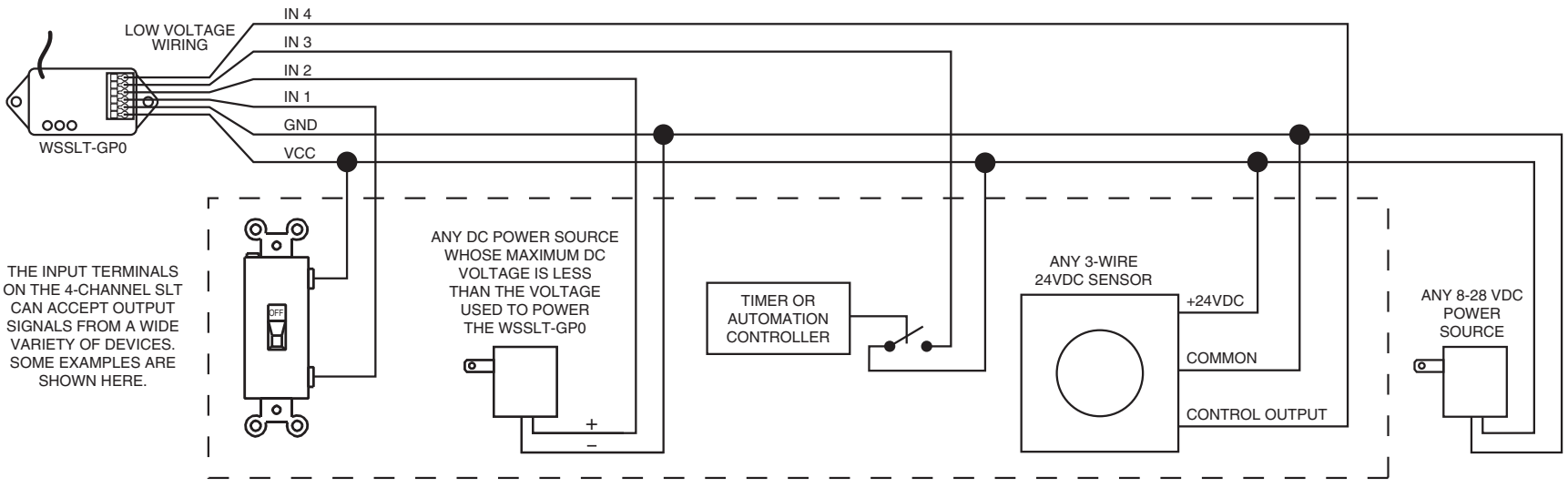


WSSLT-R10 & WSSLT-010 WIRING DIAGRAM

Basic Installation of Switch Leg Transmitter



WSSLT-GP0 WIRING DIAGRAM



LIMITED 2 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for two years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if within such two year period the product is returned prepaid, with proof of purchase date, and a description of the problem to **Leviton Manufacturing Co., Inc., Att: Quality Assurance Department, 201 North Service Road, Melville, New York 11747.** This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. **There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose**, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to two years. **Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation**. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

For Technical Assistance Call: 1-800-824-3005 (U.S.A. Only) www.leviton.com