**WIRING SWITCH:**

**Wiring Diagram (Figure 2)**

1. Connect (Neutral) wire in wall box to white wire on switch.
2. Connect (Hot) wire from wall to black wire on switch.

**COMPLIANCE:**

Most EnOcean Alliance devices enabled through the EnOcean ECO-Profile® offer compatibility with the WSS20 rocker switch. This includes but is not limited to room controllers, occupancy sensors, key cards, powered switches, door and window sensors made by Leviton as well as other EnOcean Alliance companies which support EEP 2.5 and above.

**DI-000-WSS20-00B**

**INSTALLATION OPTIONS:** (Software tools)

**LevNet RF WSS20 Decora® Rocker Switch (902.875MHz)**

**Commissioning Software Package:**

Please use the ComWi installation and operation instructions for additional details.

**General Operation**

**Walk-Through Time Delay:**

When used with an occupancy sensor the WSS20 has four time-out settings: 1, 2, 5, 10 minutes. If there is a power outage, when the load power is restored the occupancy sensor will send messages to the receiver switch, keeping the occupancy sensor station in Auto mode. The walk-through feature is only active in the Auto-ON/Auto-OFF mode with an occupancy sensor. When enabled, the WSS20 will turn the lights OFF shortly after the walk-through time delay expires. If the state of the lights to what they were at the time of the last known state as long as the device was in Auto mode. For additional details refer to the ComWi Installation & Operation instructions. Consult the factory for details.
4. Press the Programming Button for 1-2 seconds to leave the programming mode and go back to the Mode Selection Menu (Amber blink).

5. Device will exit Programming Mode after 20 seconds of inactivity. NOTE: Amber LED reflects the Mode Selection Menu of programming. No device can be learned into the WS200 until the blinking Red or Green LED indicates the Programming Learn Mode.

**Rocker Mode Programming Instructions**

(One Amber Blink)

1. Upon entering programming mode, the device will automatically begin in Rocker Mode (Amber LED blinking once).

2. To learn a device in Rocker Mode, hold the rocker button for 15 seconds until the changes from Amber to Red or Green to signify you are in the Programming Learn Mode.

3. When learning a wireless switch to the WS200, press one end of a switch contact. This will cause the Amber LED to flash 4 times. Press the LEARN button on the transmitter (see appropriate transmitter instruction sheet). The LED on the WS200 will take 5 seconds to indicate the transmitter has been read. For other devices, refer to their instruction manual to identify the learning button.

4. To exit Programming Learn Mode, the rocker button must be pressed for 20 seconds. The WS200 will return to the Rocker mode.

5. Follow Steps 4 of ‘Rocker Mode Programming Instructions’ described above.

**Toggle Mode Programming Instructions** (Three Amber Blinks)

1. Read all Rocker mode programming steps before taking any action to program the rocker in Toggle Mode.

2. While the WS200 is in the Mode Selection Menu (Amber LED blinking), press the Programming Button to advance the LED to blinking 3x (Toggle Mode).

3. To learn a device in Toggle Mode, press and hold the Programming Button for 5-10 seconds.

4. Press and release the Programming Button for 2-3 seconds (green blink), then press and release the Programming Button for 5-10 seconds. The WS200 will blink amber twice. Repeat this process until it is desired OFF for the Scene Mode being programmed.

5. To leave the mode and program new devices, press the Programming Button for 5 seconds. The LED will change from Amber to a double Red or double Green to signify the device is learned. When learning a transmitter other than a wireless switch or keycard, the WS200 will enter Programming Learn Mode.

6. To enter the Reprogram Mode, hold the Programming Button for 5-10 seconds. The WS200 will blink amber twice. Repeat this process until it is desired OFF for the Scene Mode being programmed.

7. To exit Programming Learn Mode, press the Programming Button for 5 seconds. The entire memory of the receiver will be deleted. The receiver LED will blink Red when the process is complete.

**Scene Mode Programming Instructions (Four Amber Blinks)**

1. Before going into Programming Mode toggle the load of the WS200 to the desired state. Turn load ON or OFF if it is desired OFF for the Scene Mode being programmed.

2. Enter Programming Mode (Hold down the Programming Button for 15 seconds until the Amber LED begins blinking).

3. While the receiver is in the Mode Selection Menu (Amber LED blinking) press the Programming Button to advance the LED to blinking 4x (Scene Mode).

4. To learn a device in Scene Mode, press and hold the Programming Button for 15 seconds until the Amber LED begins blinking. Then, after 5 seconds, the Amber LED will blink 5 times, indicating the receiver has the device learned. Note: A device can only be learned once. If the Amber LED blinks 5 times in 10 seconds, a device has not been learned, and the process should be repeated. A maximum of 10 devices may be learned for up to 20 devices learned, however, the Programming Mode will still exit after 5 seconds of inactivity so it will not be possible to tell if 20 devices are learned.

5. Follow Steps 4 of ‘Scene Mode Programming Instructions’ described above.

6. To exit Programming Learn Mode, press the receiver auto-return menu to leave Learn Mode after 20 seconds (indicated by the crossing of the LED blinking).

**Momentum Mode Programming Instructions (Two Amber Blinks)**

1. Read all Rocker mode programming steps before taking any action to program the rocker in Momentum Mode.

2. While the WS200 is in the Mode Selection Menu (Amber LED blinking), press the Programming Button to advance the LED to blinking 2x (Momentum Mode).

3. To learn a device in Momentum Mode press and hold the Programming Button for 5-10 seconds. The LED will change from Amber to Red or Green to signify the device is learned. When learning a transmitter other than a wireless switch or keycard, the WS200 will enter Programming Learn Mode.

4. To exit Programming Learn Mode, press the Programming Button for 5-10 seconds. The entire memory of the receiver will be deleted. The receiver LED will blink Red when the process is complete.

**Clear Mode Programming Instructions (Five Amber Blinks)**

1. While the receiver is in the Mode Selection Menu (Amber LED blinking) press the Programming Button to advance the LED to blinking 5 times (Clear Mode).

2. To clear the Momentum Mode, hold the Programming Button for 3-5 seconds. The LED will change from Amber to a single Red or Green blink to signify it is desired OFF for the Momentary Mode.

3. To CLEAR ALL devices from memory and reset to factory defaults press and hold the Programming Button for 5-10 seconds. The WS200 will return to the Mode Selection Menu (Amber LED blinking) select the mode desired for programming.

4. Follow Steps 4 of ‘Clear Mode Programming Instructions’ described above.

**Technical Notes:**

- Noise interference can be either line noise (from motors) or Radio Frequency (RF).
- The WS200 will go into a reduced range mode when in programming mode (learn devices within 10 feet).
- Receiver can be reduced by metal objects (metal decreases the effectiveness of all radio-based technology).
- A fixed-strap antenna is integrated into the product.
- Consider Factors affecting the Environment:
  - Device placement.
  - Obstructions (metal, concrete, other construction material).
  - Influence of nearby electronic devices.
  - Does the system work more reliably at close range (without obstructions)? Is there any noticeable benefit or possible effect on the performance?
  - Can other device be relocated (even slightly) away from obstructions to improve the system performance?

**Programming Tools:**

- To program additional transmitters to communicate with the WS200 in another mode, toggle the load of the WS200 to the desired state. Turn load ON or OFF if it is desired OFF for the Scene Mode being programmed.

- Enter Programming Mode (Hold down the Programming Button for 15 seconds until the Amber LED begins blinking).

- While the receiver is in the Mode Selection Menu (Amber LED blinking) press the Programming Button to advance the LED to blinking 4x (Scene Mode).

- To learn a device in Scene Mode, press and hold the Programming Button for 15 seconds until the Amber LED begins blinking. Then, after 5 seconds, the Amber LED will blink 5 times, indicating the receiver has the device learned. Note: A device can only be learned once. If the Amber LED blinks 5 times in 10 seconds, a device has not been learned, and the process should be repeated. A maximum of 10 devices may be learned for up to 20 devices learned, however, the Programming Mode will still exit after 5 seconds of inactivity so it will not be possible to tell if 20 devices are learned.

- Follow Steps 4 of ‘Scene Mode Programming Instructions’ described above.

- To exit Programming Learn Mode, press the receiver auto-return menu to leave Learn Mode after 20 seconds (indicated by the crossing of the LED blinking).

**Product LED indications:**

- One amber blink upon pushing of top button (>5s) represents entry into the Clear Mode.
- Indicates a device was learned when in the Programming Learn Mode.
- In programming mode indicates Mode Selection Menu (1-6 blinks).
- Pressing the Programming Button to advance the Amber LED to blinking 4x
- Will stay ON for 2-3 seconds indicating that the receiver has stored the information.
- Amber LED will be blinking 1x for up to 20 devices learned, however, the Programming Mode will exit after 2 seconds of inactivity so it will not be possible to tell if 20 devices are learned.

**Technical Notes:**

- A special debug mode is accessible by holding down the TOP Decora® switch button and device learned.
- Message received
- When learning a transmitter other than a wireless switch or keycard, the WS200 will enter Programming Learn Mode.
- While the receiver is in the Mode Selection Menu (Amber LED blinking) press the Programming Button to advance the LED to blinking 4x (Scene Mode).
- To learn a device in Scene Mode, press and hold the Programming Button for 15 seconds until the Amber LED begins blinking. Then, after 5 seconds, the Amber LED will blink 5 times, indicating the receiver has the device learned. Note: A device can only be learned once. If the Amber LED blinks 5 times in 10 seconds, a device has not been learned, and the process should be repeated. A maximum of 10 devices may be learned for up to 20 devices learned, however, the Programming Mode will still exit after 5 seconds of inactivity so it will not be possible to tell if 20 devices are learned.

**Troubleshooting:**

- If Red LED blinks keep in mind that the receiver has a low battery.
- While the WSS20 is in the Mode Selection Menu (Amber LED blinking) press the Programming Button for 5 seconds.
- The WS200 will blink amber twice.
- While in the Clear Mode of programming press and release the Programming Button for 5 seconds. The entire memory of the receiver will be deleted. The receiver LED will blink Red when the process is complete.

**Technical Notes:**

- Noise interference can be either line noise (from motors) or Radio Frequency (RF).
- The WS200 will go into a reduced range mode when in programming mode (learn devices within 10 feet).
- Ranges can be reduced by metal objects (metal decreases the effectiveness of the communication).