WIRELESS WALL SWITCH & LOAD CONTROLLER
LINE VOLTAGE

OVERVIEW

The Intelligent Lighting Controls wireless wall switch load controller links to remote occupancy sensors and switches without low voltage wiring in order to provide automatic lighting control. Designed with contractors in mind, the unit is significantly shallower than typical wall controllers, resulting in less crowded wall boxes. Additionally, versatile wiring enables usage with or without a neutral connection and never requires a minimum load. This switch also matches the ILC family of wall switch occupancy sensors and 0-10V dimming wall switch sensors. All ILC products are proudly made in the USA.

FEATURES

ELECTRICAL FEATURES
- Accommodates Neutral (3-Wire) and No-Neutral (2-Wire) Installations
- Electronically Timed Switching Ensures Long Relay Life
- No Minimum Load or External Load Capacitor (MLC) Requirements
- Meets Regulatory Guidelines for Current Leakage

PHYSICAL FEATURES
- Enclosure is 25-40% Shallower than Other Wall Controllers (< 1” Depth into Wallbox)
- Self-Grounding Mounting Strap
- Modern Look and Intuitive Easy-Tap Button

OPERATIONAL FEATURES
- Pairs in Seconds with Wireless Sensors & Remote Wall Stations
- Configurable Time Delays and Operational Modes (e.g. Occupancy, Vacancy, Switch Disable)
- Blue Locator LED when Lights are Off
- Settings are Adjustable Without Removing Cover Plate
- Links with up to 30 sensors and/or switches

SPECIFICATIONS

ELECTRICAL
- OPERATING VOLTAGE
  120-277 VAC, Single Phase, 50/60 Hz
- LOAD RATINGS
  MAX:  800W @ 120VAC
       1200W @ 277VAC
  MIN: None
- LOAD TYPES
  LED Driver/Lamps
       CFL, Electronic/Magnetic Ballasts (Fluorescent)
       Tungsten (Incandescent)
- ESD IMMUNITY
  Tested to withstand electrostatic discharge without damage or memory loss.
- SURGE IMMUNITY
  Tested to withstand surge voltages without damage or loss of operation.
- NON-VOLATILE MEMORY
  Saves all settings even if power is disrupted.

WIRELESS
- RANGE
  80’ line of site w/o obstruction (walls)
  40’ with obstruction (walls/floors)
- FREQUENCY
  915 MHz Band
- WIRELESS LINKING
  Simple 3 sec. Push Button Process
- SECURITY
  All Wireless Data is Encrypted

PHYSICAL
- SIZE
  2.74”H x 1.68”W x 1.39”D
  (<1” Wallbox Mounting Depth)
- WEIGHT
  4.5 oz

ACCESSORY PART #
- ILC-SWX-199 Single Gang Wall Plate

ORDERING INFO

<table>
<thead>
<tr>
<th>PRODUCT DESCRIPTION</th>
<th>COLOR*</th>
<th>PACKAGE COUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILC-SWX-851 Wireless Wall Switch &amp; Load Controller</td>
<td>White - WH</td>
<td>Single Pack Blank</td>
</tr>
<tr>
<td></td>
<td>Ivory - IV</td>
<td>10 Pack** - J10</td>
</tr>
<tr>
<td></td>
<td>Light Almond - LA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gray - GY</td>
<td>*WALLPLATE NOT INCLUDED</td>
</tr>
</tbody>
</table>

SAMPLE MODEL #: ILC-SWX-851-WH

** THE CONTRACTOR PACK OPTION (-J10) REDUCES JOB SITE WASTE AND INVENTORY TIME
APPLICATIONS

SMALL SPACES
For control of small spaces like a private office, a wireless wall switch controller linked to single wireless ceiling sensor (ILC-SWX-201-B) is recommended (see diagram on right). Both occupancy (auto-on) and vacancy (manual-on) operation are achievable in order to meet energy code requirements.

- Small Offices
- Copy Rooms
- Private Restrooms

MEDIUM SIZE SPACES
For control of medium size spaces like a conference room or small classroom, a wireless wall switch controller linked to a single wireless wide view sensor (ILC-SWX-401-B) provides an excellent solution. Linking additional sensors is also an option if necessary. Switching from a second location (e.g. 3-way) is achieved by linking a remote wireless wall switch (ILC-SWX-852) to the wireless switch controller.

- Small Classrooms
- Conference Rooms
- Short Hallways
- Break Rooms

COMPATIBLE WIRELESS DEVICES
The below chart lists the devices that can be used in a ILC wireless application. Note that sensors and remote switch & dimmer devices are transmit only devices and therefore must be linked to a load controller for switching or dimming of lighting.

<table>
<thead>
<tr>
<th>MODEL #</th>
<th>DESCRIPTION</th>
<th>WIRELESS TYPE</th>
<th>POWER TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILC-SWX-201-B</td>
<td>Small Motion 360° Sensor, PIR</td>
<td>Transmit</td>
<td>Battery</td>
</tr>
<tr>
<td>ILC-SWX-401-B</td>
<td>Wide View Sensor, PIR</td>
<td>Transmit</td>
<td>Battery</td>
</tr>
<tr>
<td>ILC-SWX-402-B</td>
<td>Long Range Hallway Sensor, PIR</td>
<td>Transmit</td>
<td>Battery</td>
</tr>
<tr>
<td>ILC-SWX-851-xx</td>
<td>Wall Switch Load Controller, No Neutral Required, &lt;xx = color&gt;</td>
<td>Transmit &amp; Receive</td>
<td>120/277 VAC</td>
</tr>
<tr>
<td>ILC-SWX-852-B-xx</td>
<td>Remote Switch (On/Off), &lt;xx = color&gt;</td>
<td>Transmit</td>
<td>Battery</td>
</tr>
<tr>
<td>ILC-SWX-854-B-xx</td>
<td>Remote Dimming Switch (On/Off, Raise/Lower), &lt;xx = color&gt;</td>
<td>Transmit</td>
<td>Battery</td>
</tr>
<tr>
<td>ILC-SWX-950</td>
<td>Power Pack Load Controller, 20A</td>
<td>Receive</td>
<td>120/277 VAC</td>
</tr>
<tr>
<td>ILC-SWX-950-D2</td>
<td>Power Pack Load Controller, 20A, 0-10V Dimming</td>
<td>Receive</td>
<td>120/277 VAC</td>
</tr>
<tr>
<td>ILC-SWX-950-AX</td>
<td>Hybrid Wireless/Wired Power Pack Load Controller, 20A</td>
<td>Transmit &amp; Receive</td>
<td>120/277 VAC</td>
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<tr>
<td>ILC-SWX-950-AX-D2</td>
<td>Hybrid Wireless/Wired Power Pack Load Controller, 20A, 0-10V Dimming</td>
<td>Transmit &amp; Receive</td>
<td>120/277 VAC</td>
</tr>
</tbody>
</table>

WIRING
- Unit works both in installations where Neutral connection is available as well as installations where only Ground connection is present.
- If no neutral is present, remove the white sleeve from the wire & connect the now green/yellow wire to Ground.
- Note, either the white wire or green/yellow wire must be connected. The all green wire is just for safety.

BASIC WIRING

- IF NO NEUTRAL PRESENT, REMOVE WHITE SLEEVE FROM WIRE & CONNECT GREEN/YELLOW WIRE TO GROUND

NOTE: This product is UL listed and meets NEC 404.2(c) & 404.22 guidelines regarding powering over ground & current leakage. Device may be used in replacement or retrofit applications when no neutral conductor is present.
WIRELESS LINKING (PAIRING)

Linking a wall switch controller with a sensor, power pack, dimmer, or another wall switch controller is quickly done via the following procedure:

**Step 1.** Enter pairing mode by holding down the wall switch’s button for 3 seconds until the LED starts alternating blue and white, then release.

**Step 2.** At the sensor (or other remote device), hold down the programming button for 3 seconds until the LED starts alternating blue and white. Releasing will link the sensor with the switch in pairing mode (see note 1 below).

**Step 3.** Repeat step 2 to link another sensor or device.

**Step 4.** When all devices have been linked, exit pairing mode on the wall switch controller by pressing the button 1 time. Pairing will also be automatically closed after 15 minutes of no new devices being linked.

**Note 1:** Once a device(s) is linked, the alternating LED colors on the wall switch controller will periodically pause and blink out total number of linked devices. There will be no blinks during the pause until after the first device is linked.

![Diagram of wireless linking process]

INSTALLATION

- Designed to mount in 1-gang wall box with 3.28” hole spacing.
- Units can also share multiple gang wall boxes with other devices.
- Unit face is field removable in order to change colors. Contact factory for additional faces.

![Diagram of sensor and wall switch installation]

FCC INFORMATION (FCC ID: 2AVRY-SWX0001)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes and modifications not expressly approved by BLP Technologies can void your authority to operate this equipment under Federal Communications Commission’s rules.

INDUSTRY CANADA INFORMATION (IC: 26012-SWX0001)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes : (1) l’appareil ne doit pas produire de brouillage, et (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.