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› SENSORWORX SWX-851-WH Wireless Light Switch and Load Controller User Manual

SENSORWORX SWX-851-WH

SENSORWORX SWX-851-WH Wireless Light Switch and Load
Controller User Manual

Model: SWX-851-WH

Introduction	Safety Information	Package Contents	Setup & Installation	Operation
Maintenance	Troubleshooting	Specifications	Warranty & Support	

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the SENSORWORX SWX-851-WH Wireless Light Switch and Load Controller. This device is designed for seamless integration into lighting systems, offering wireless control for both residential and commercial applications. It operates on 120-277VAC line voltage and supports various load types.



Figure 1: SENSORWORX SWX-851-WH Wireless Light Switch and Load Controller with its packaging.

2. SAFETY INFORMATION

- **WARNING:** Risk of electric shock. Installation should be performed by a qualified electrician in accordance with all national and local electrical codes.
- Disconnect power at the circuit breaker or fuse before installing or servicing the device.
- Do not use this device with loads exceeding its specified ratings.
- Ensure all wire connections are secure and properly insulated.
- This device is intended for indoor use only.
- The device meets regulatory guidelines for current leakage, ensuring safe operation.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Wireless Wall Switch and Load Controller (SWX-851-WH)
- Wire Leads
- Mounting Screws
- Wire Nuts
- Instructions (this manual)

4. SETUP AND INSTALLATION

4.1 Wiring Instructions

The SWX-851-WH supports both 2-wire and 3-wire installations and does not require a neutral connection or a minimum load. It is compatible with 120-277VAC line voltage systems.

- **Before You Begin:** Turn off power at the circuit breaker.
- Identify the LINE (hot) and LOAD wires in the wall box.
- Connect the wires from the SWX-851-WH to the corresponding wires in the wall box using the provided wire nuts:
 - **Black Wire:** Connect to LINE (hot) wire.
 - **Blue Wire:** Connect to LOAD wire.
 - **Green Wire:** Connect to GROUND wire.
 - **White (or Yellow/Green) Wire:** This is the NEUTRAL connection. If a neutral connection is available and desired, connect it. If no neutral is present or required, cap this wire off.
- Ensure all connections are secure.



Figure 2: Rear view of the SWX-851-WH, illustrating wiring connections. Black for Line, Blue for Load, Green for Ground, and White/Yellow/Green for Neutral (optional).

4.2 Physical Installation

- Carefully push the wired controller into the wall box. The compact design allows for easier installation in crowded boxes.
- Secure the controller to the wall box using the provided mounting screws.
- Install the wall plate (not included) over the controller.
- Restore power at the circuit breaker.

4.3 Wireless Pairing

The SWX-851-WH can be paired with up to 30 wireless sensors and remote wall stations for automatic lighting control. Refer to the specific instructions for your SENSORWORX wireless sensors or remote wall stations for pairing procedures. Typically, pairing involves a sequence of button presses on both devices. For detailed instructions, you may scan the QR code on the back of the device or visit the SENSORWORX website. A

direct link to the instructions is available [here](#).

5. OPERATION

5.1 Basic On/Off Control

The primary function of the SWX-851-WH is to control connected lighting loads. Press the button on the switch to toggle the connected lights ON or OFF.



Figure 3: Front view of the SWX-851-WH, showing the control button.

5.2 Advanced Configuration

The SWX-851-WH offers configurable settings for time delays, operational modes (occupancy, vacancy, switch disable), and photocell settings. These adjustments can be made without removing the cover plate, typically through specific button press sequences or via a paired sensor/programmer.

- **Occupancy Mode:** Lights turn ON automatically when occupancy is detected and OFF after a set time delay when

the space is vacant.

- **Vacancy Mode:** Lights must be turned ON manually but turn OFF automatically after a set time delay when the space is vacant.
- **Switch Disable Mode:** Disables the local switch button, allowing control only via paired wireless devices.
- **Photocell Settings:** Adjusts light level thresholds for automatic control based on ambient light.

Consult the full product documentation or the SENSORWORX website for detailed instructions on accessing and modifying these advanced settings.

6. MAINTENANCE

- **Cleaning:** To clean the device, wipe with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure power is off before cleaning.
- **Inspection:** Periodically inspect the device for any signs of damage or loose connections. If damage is found, disconnect power and contact a qualified electrician.
- No user-serviceable parts are inside.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights do not turn ON/OFF.	No power to the switch; incorrect wiring; faulty bulb/fixture; switch in disabled mode.	Check circuit breaker. Verify wiring connections (refer to Section 4.1). Test bulb/fixture. Check if switch disable mode is active.
Wireless control not working.	Device not paired; out of range; interference.	Ensure proper pairing (refer to Section 4.3). Reduce distance between devices. Check for sources of wireless interference.
Lights turn OFF too quickly/slowly.	Time delay setting incorrect.	Adjust the time delay setting (refer to Section 5.2).
Automatic control not functioning.	Incorrect operational mode; photocell setting incorrect; sensor issue.	Verify occupancy/vacancy mode settings. Adjust photocell settings. Check paired sensor functionality.

If the problem persists after attempting these solutions, contact SENSORWORX customer support or a qualified electrician.

8. SPECIFICATIONS

Model Number	SWX-851-WH
Operating Voltage	120-277VAC, 50/60Hz
Load Rating (120V)	Up to 800W (LED, Ballast, CFL, Tungsten)
Load Rating (277V)	Up to 1200W (LED, Ballast, CFL, Tungsten)

Minimum Load	No minimum load required
Neutral Connection	Not required (supports 2-wire and 3-wire installations)
Product Dimensions (L x W x H)	2.74 x 1.68 x 1.39 inches
Weight	4.5 ounces
Operation Mode	ON-OFF
Circuit Type	1-way, 3-way, 4-way
Manufacturer	SENSORWORX
Country of Origin	USA

9. WARRANTY AND SUPPORT

9.1 Product Warranty

The SENSORWORX SWX-851-WH Wireless Light Switch and Load Controller comes with a**5-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims, please retain your proof of purchase.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact SENSORWORX customer support. Visit the official SENSORWORX website for contact information and additional resources.

Website: www.sensorworx.com

