NLCIWS102B1

Line Voltage Occ/Vacancy Sensor Bluetooth Wall Switch

Project

Catalog

Type

Date

Product Description

The NLCIWS102B1 is a line-voltage switch featuring integrated PIR occupancy and daylight sensing, with a built-in relay rated for lighting loads up to 6A. The unit consists of a 4-button interface that provides manual Dim Up, Dim Down, ON, and OFF control. Setup and commissioning require the NICOR NLC mobile app (iOS and Android).
Note: The NLCIWS102B1 does not provide wired 0-10V dimming connections. 0-10v dimming is controlled via Bluetooth through other NLC components.

Construction
- IP20
- Color: White
- Housing Material Flame Rating: UL 94-5VA

Network Technology
- Bluetooth Low Energy (BLE) 5.0, 2.4 GHz ±75 MHz with mesh networking
- Bluetooth range: up to 100ft (line of sight)
- Commissioned via NICOR NLC app (IOS and Android compatible)
- UL1376 Cyber Security Certification

Mounting
- Wall-mounted line-voltage occupancy/vacancy sensor switch
- Designed for indoor installation only
- Install in a standard wall switch location

Electrical
- Input voltage: 120-277 VAC, 50/60 Hz
- Output voltage: 120-277 VAC
- Output current: 6 A max
- Output power: 720 W max @120 V, 1662 W max @277 V.
- Operating temperature 0°C to 55°C (32°F to 131°F)
- Storage temperature -30°C to 85°C (-22°F to 185°F)

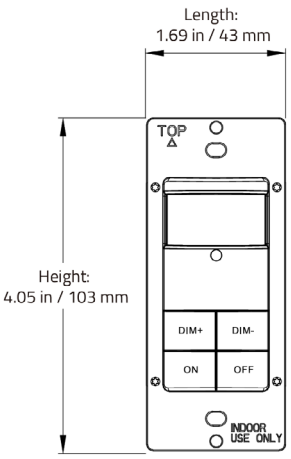
Listings
- UL 8750
- cULus Listed LED Controller
- DLC NLC5
- RoHS compliant

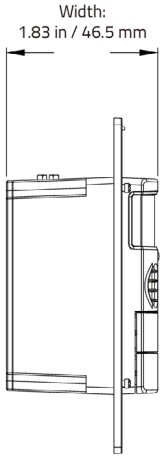
Warranty
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)









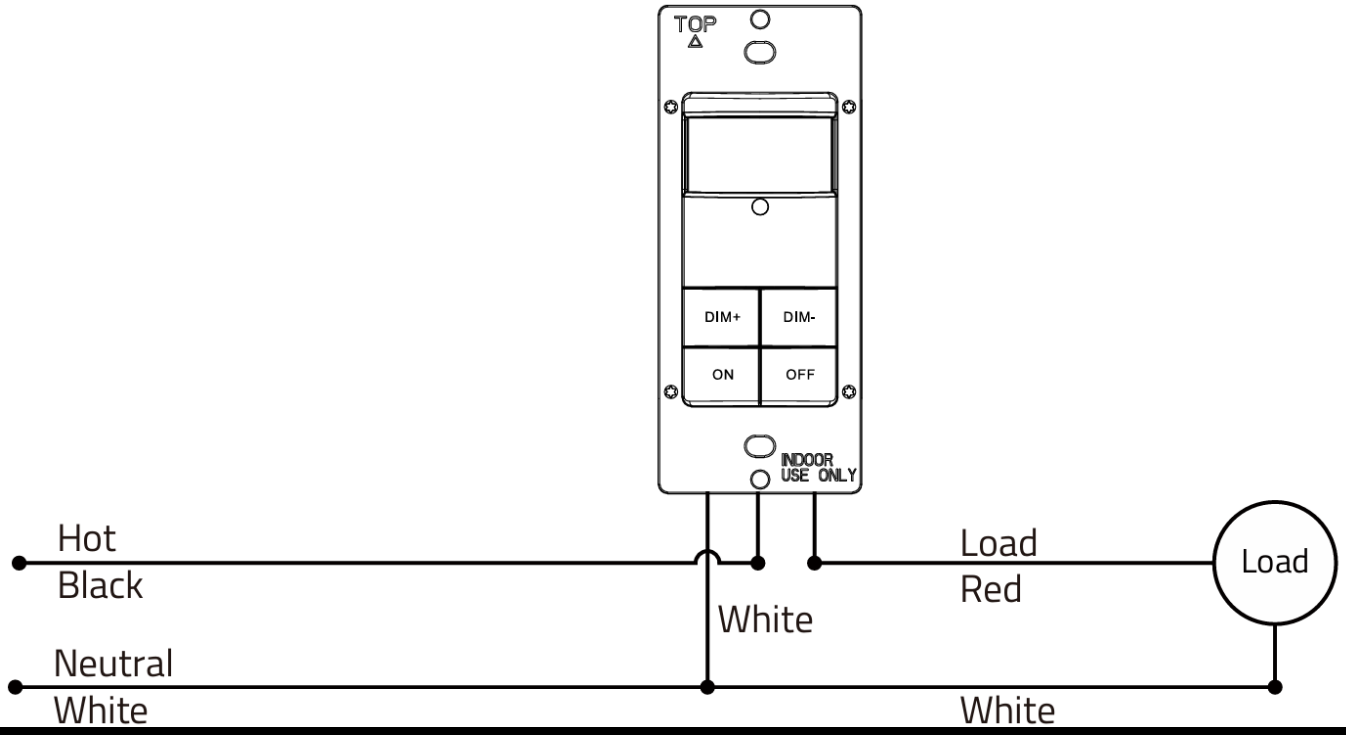


Ordering Information

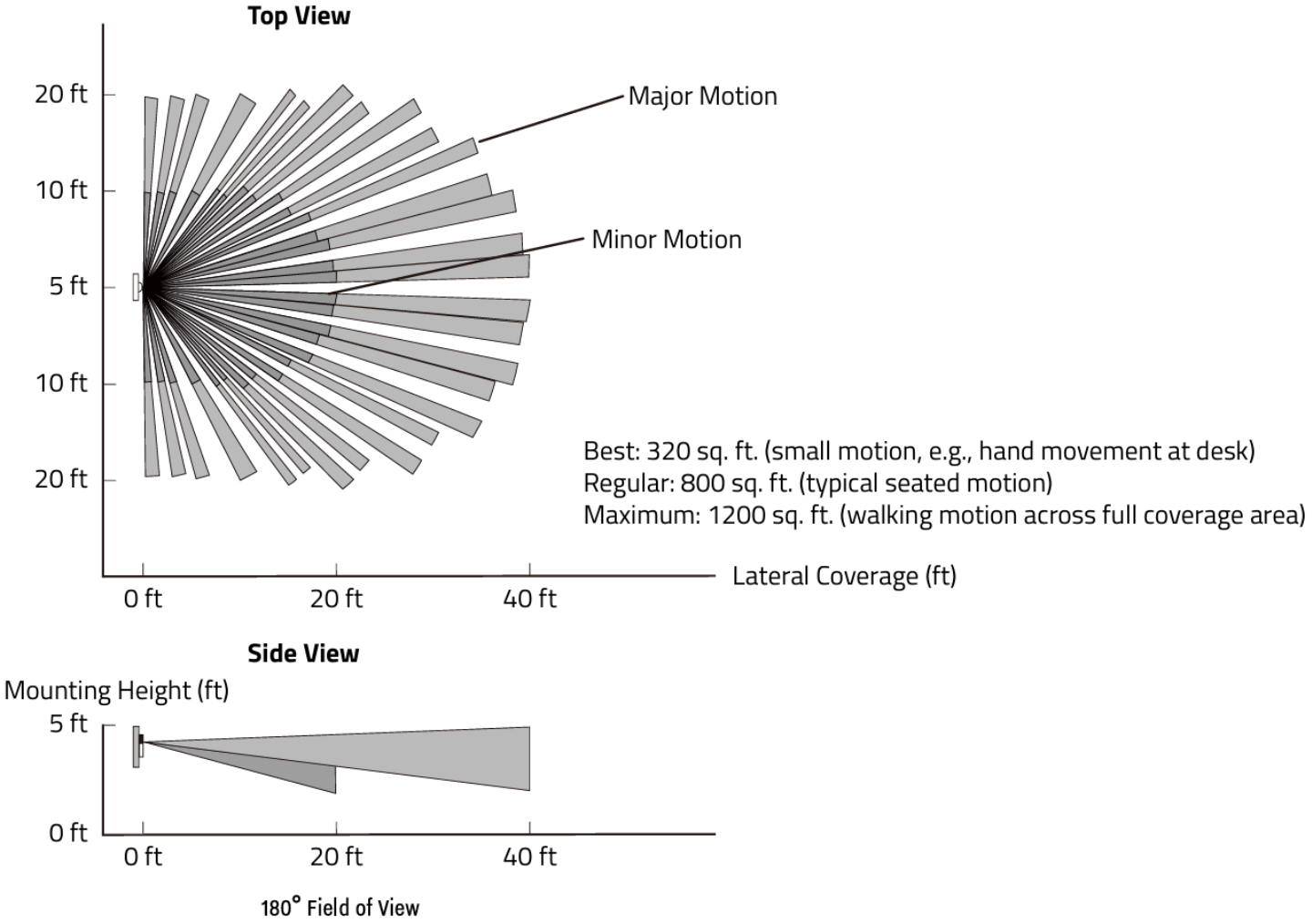
Part Number	Description
NLCIWS102B1	**Line Voltage Occ/Vacancy**

Specifications and dimensions subject to change without notice.

Wiring Diagram



Coverage



Indicator Light Guide

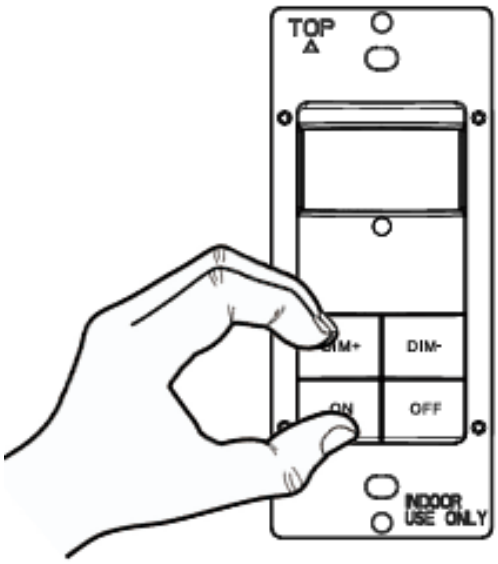
1. The indicator light will blink 5 times at a frequency of 0.25Hz every time when it is powered on.

2. The indicator light will blink 3 times at a frequency of 5Hz when receiving a data packet.

3. After pressing the button for 15 seconds, the NLCIWS102B1 enters the state of preparing to reset, and the indicator light blinks at a frequency of 1Hz for a maximum of 5 seconds.

4. When NLCIWS102B1 is in the state of preparing to reset, the indicator light will flash at a frequency of 1HZ. If user presses the button, the indicator light will remain on for 6 seconds, and the sound of the relay switching can be heard. After that, the device will immediately restart and return to the factory state.

Resetting the NLCIWS102B1



Download the NICOR NLC App

GET IT ON Google Play

Download on the App Store

Scan QR code or click on buttons to download the NICOR NLC App. NICOR NLC App will need access to network and Bluetooth. Accept prompt to allow access to photos for QR codes to be automatically saved in your album.

For more information check our **NICOR NLC Commissioning Guide.**
(https://nicorlighting.com/NLC/NLC%20Commissioning%20Guide.pdf)

NLCIWS102B1 Default Settings:

Motion Sensor: Enabled (Occupancy mode)

Daylight Hold-off (Photo Sensor): Enabled — lights won't turn on if ambient light is already sufficient

Relay Output: Single relay, defaults to ON when occupancy is detected

Bluetooth: Ready to pair (factory state)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two 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.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.