LMDW-101   LMDW-102

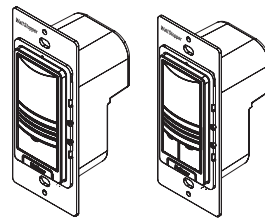# LMDW-101/102
Digital Lighting Management

Dual Technology Occupancy Sensor

This unit is pre-set for Plug n' Go operation, adjustment is optional.

For full operational details, adjustment and more features of the product, see the DLM System Installation Guide provided with the DLM room controllers and also available at www.wattstopper.com

Installation shall be in accordance with all applicable regulations, local and NEC codes.

To be connected to a Class 2 power source only.

Class 2 Device Wiring Only – Do Not Reclassify and Install

as Class 1, 3 or Power and Lighting Wiring.

Wire connections shall be rated suitable for the wire size (lead and building wiring) employed.

Do not apply cleaning solvent directly onto unit. Apply cleaning solvent onto a cloth, then wipe the unit to clean it.

Voltage 24VDC

Current Consumption 20mA

Power Supply .... Watt Stopper/Legrand Room Controllers

Connection to the DLM Local Network .... 2 RJ-45 ports

DLM Local Network Characteristics:
  Provides low voltage power over Cat 5e cable (LMRJ).
  Supports up to 24 communicating devices, including 4
  LMRC-10x or LMPL-101 max per each DLM Local Network.
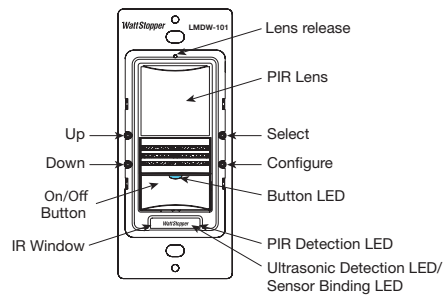 Free topology up to 1,000ft of low voltage cable.

Environment .... For Indoor Use Only

  Operating Temperature ....32° to 131°F (0° to 55°C)

  Storage Temperature .... 23° to 176°F (-5° to 80°C)

  Relative Humidity ....5 to 95% (non condensing)

Patent Pending

COVERAGE PATTERN

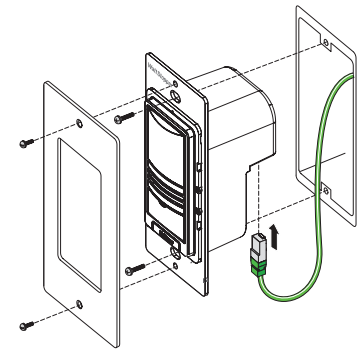Do not obstruct the lens.

Note: Plus 10° above horizon.
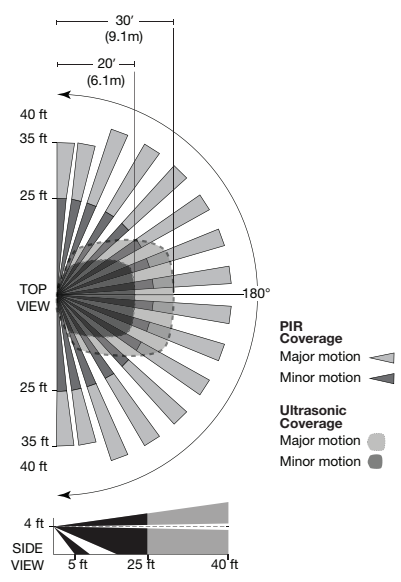
BUTTONS AND INDICATORS

MOUNTING

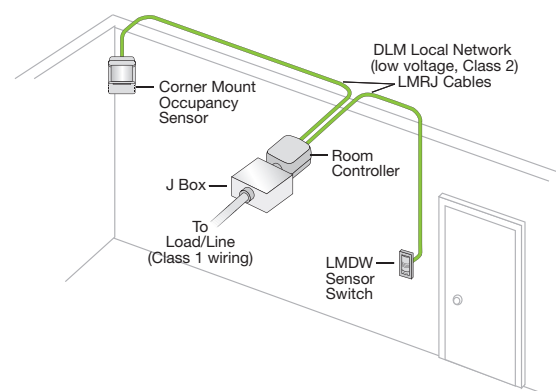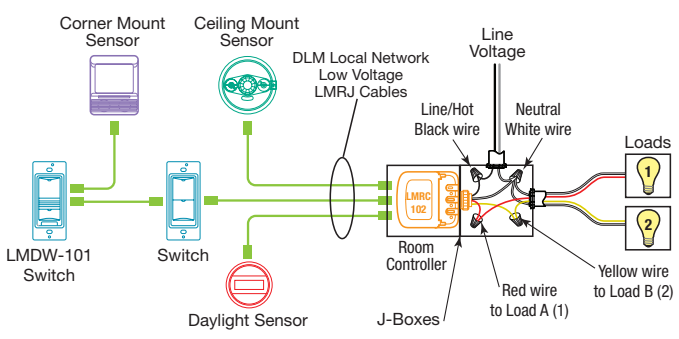**WARNING:** Do Not Install To Cover a Junction Box Having Class 1, 3 or Power and Lighting Circuits.

CONNECTIVITY

The illustrations below show examples of free-topology wiring. The LMDW communicates to all other Digital Lighting Management devices connected to the low voltage DLM Local Network, regardless of their position on the DLM Local Network.

PLUG n' GO OPERATION (PnG)

Each load is automatically assigned to a switch button.

- If there is only one load it will default to Manual ON/Auto OFF. If there is more than one load then the first load will default to Auto ON/Auto OFF and the rest of the loads will default to Manual ON/Auto OFF.
- If there are **more buttons** on a switch than there are loads, the extra button(s) do nothing and blink when pressed.
- If there are **fewer buttons** on a switch than there are loads, the last button controls all remaining loads.

UNIT ADJUSTMENT - PUSH n' LEARN (PnL)

Load Selection Procedure

A configuration button allows access to our patented Push n' Learn™ technology to change the binding relationship between switch buttons and loads.

Step 1: Enter Push n' Learn

Using a pointed tool, press and hold the configuration button for 3 seconds, until the Red LED on the switch begins to blink.

When you release the switch's configuration button, the red LED on other communicating DLM Local Network devices begins to blink.

The DLM Local Network is now in PnL mode. The Red LEDs continue to blink until you exit PnL mode.

All loads in the room turn OFF after entering PnL. After one second, one load turns ON. This is Load #1, which is bound to switch button #1 as part of the Plug n' Go factory default setting. **The Blue LED will be ON for all switch buttons and sensors that are bound to this load.**

Step 2: Load selection

Press and release the configuration button to step through the loads connected to the DLM Local Network. As each load turns ON note which devices (switch buttons and sensors) are showing the blue LED. These devices are currently bound to the load that is ON.

To **unbind** a switch button from a load, press the switch button while its blue LED is ON. The blue LED turns OFF to indicate the button no longer controls the load that is currently ON. Use the up and down arrow to bind and unbind the sensor.

Pressing the switch button again while the load is ON **rebinds** the load to the button and the blue LED illuminates.

Step 3: Exit Push n' Learn

Press and hold the configuration button until the red LED turns off, approximately 3 seconds.

RELEASING LENS

Insert a small paper clip into the small hole at the top of the trim ring. Press in firmly until the lens is released and springs forward. Grab the lens and remove it completely to expose the screen.
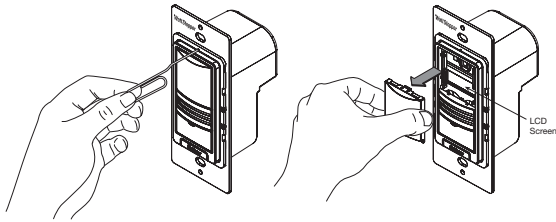
REINSERTING LENS

Reinsert the lens in the proper orientation: place the two posts at the bottom at a 30 degree angle with the chamfered edge facing up. Gently press the top of the lens until it locks in place.
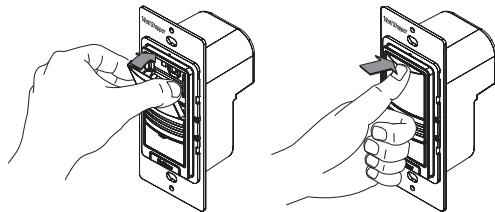
Sensor Parameters

Time Delay	20 minutes
Passive Infrared Sensitivty	90%
Ultrasonic Sensitivity	70%
Walk Through	OFF
Initial Occupancy	PIR and Ultrasonic
Maintain Occupancy	PIR or Ultrasonic

TROUBLESHOOTING

Loads do not operate as expected.

WARNING: TO CONNECT A COMPUTER TO THE DLM LOCAL NETWORK USE THE LMCI-100. NEVER CONNECT THE DLM LOCAL NETWORK TO AN ETHERNET PORT – DOING SO MAY DAMAGE COMPUTERS AND OTHER CONNECTED EQUIPMENT.

LEDs don't light, display is off	1. Check to see that the sensor is connected to the DLM local Network. 2. Check for 24VDC input to the sensor: Plug in a different DLM device at the sensor location. If the device does not power up, 24VDC is not present. • Check the high voltage connections to the room controller. • If high voltage connections are good and high voltage is present, recheck DLM local Network connections between the sensor and the room controller.
The wrong lights are controlled	1. Configure the sensor to control the desired lights using the Push n' Learn adjustment procedure.
LEDs turn ON and OFF but load doesn't switch	1. Make sure device is not in PnL. 2. Check load connections to room controller.