Choosing Wattstopper DLM Product

Wattstopper Digital Lighting Management system is both specifier and user friendly and is a great system for contractors interested in achieving energy efficiency in both simple and complex systems. In California, it is an easy way to achieve Title 24 compliance for lighting control systems. The Plug n Go system detects the devices connected via Cat5e cable and functions immediately at factory pre-set settings. You can also elect to buy the IR remote or configuration tool, which will allow you to adjust the settings from the ground post installation for components including: occupancy sensors and photosensors.

To find the components you will need to select for you system, you should ask yourself the following questions:

1- Are you dimming?

- No – Use Room Controller Series: LMRC-101 or LMRC-102)
- Yes – Go to 2.

2 – How is your lighting dimmed?

- 0-10 Volt (Use Room Controller Series: LMRC-211/2/3)
- Forward Phase (Use Room Controller Series: LMRC-221/2)

3 – How many relays/zones will you be controlling with your Room Controller?

- Non-Dimming: LMRC-10x: 1 or 2 relay option
- Dimming 0-10V: LMRC-21X: 1,2, or 3 relay option
- Dimming Forward Phase: LMRC-22X: 1 or 2 relay option

** remember that you can also plug in additional room controllers for additional relays/zones via Cat5e cable

4 – Within your space, what do you need to control?

- Outlets (LMPL-101)
- Occupancy Ceiling
  - LMDC-100 (Dual Technology)
  - LMPC-100 (PIR Technology)
- Occupancy Wall
  - LMDW-100 (Dual Technology)
  - LMPW-100 (PIR Technology)
- Occupancy Corner
  - LMDX-100 (Dual Technology)
  - LMPX-100 (PIR Technology)
- Daylighting Standard Closed Loop (LMPS-500)

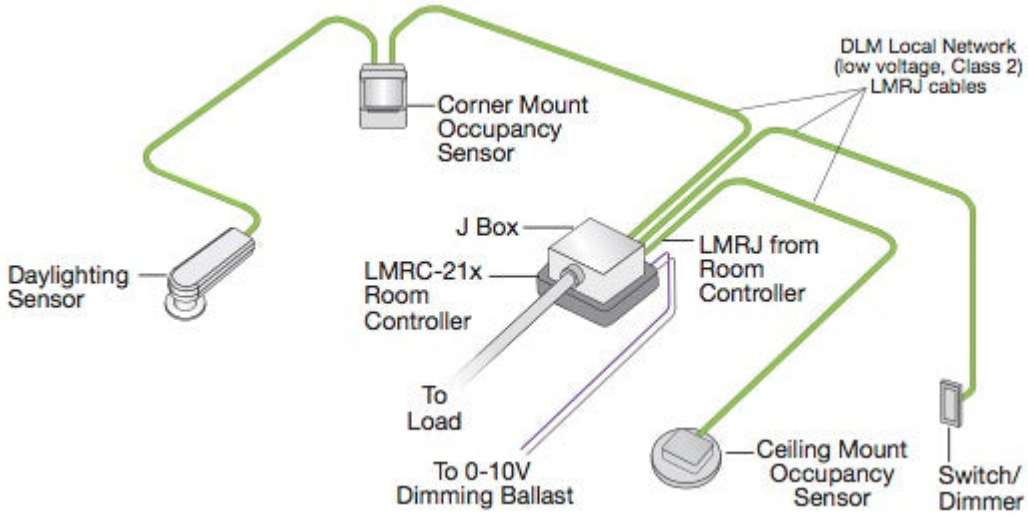
5 – Will you require wall controls?

- Dimming (LMDM-10X)
- Switches/ Stations 1,2,3,4,5,8 Buttons (LMSW-10X-W)

Once you narrow down your selections, you need to specify Cat5e runs lengths and you are ready to order your system.

Here is a sample of a simple Digital Lighting Management solution using the LMRC-212 Room Controller Network.

This sample shows a network of: Switching, Dimming, Occupancy, Daylighting and Dimming



Acuity BlueBox Compatible Occupancy Sensors

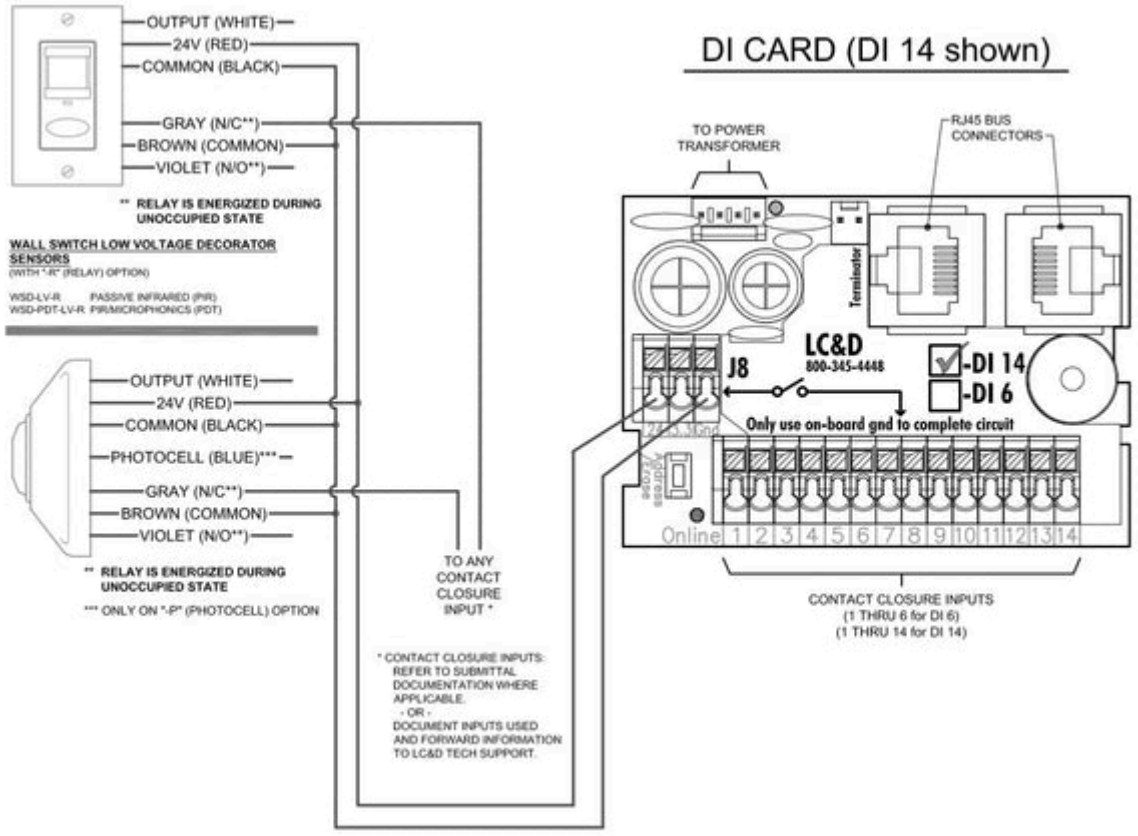
The Blue Box GR1400 LT and LTD control panels by Lighting Control and Design can be wired with compatible occupancy sensors for on/off control of lighting. There are multiple controls companies that have compatibility with these panels, however, we recommend Sensor Switch controls, which is also an Acuity Brands owned company. See below for information pertaining to the control panel you will be ordering for proper information and compatibility.

GR1400 BLUE BOX LT PANEL

On the traditional GR1400 LT panel, make sure you order the DigiLink Card (either 6 or 14 input) to wire your occupancy sensors. The DigiLink inputs of the Blue Box allow a single occupant sensor to control multiple relays in a variety of different scenarios. Sensors may be disabled by time of day if the 6 input card is used, or may be included as part of a combined occupant sensor / daylight harvesting controls

strategy. Make sure that your sensors have a have a “-R” (relay option) or dry contact output. Hook up is similar to a traditional power pack. Occupant sensors may be powered by the regulated 24 V dc/300 mA supply on the DigiLink Card.

A typical wiring diagram will look like this:



The following sensors from Sensor Switch are recommended for use with the Blue Box GR1400 LT panel:

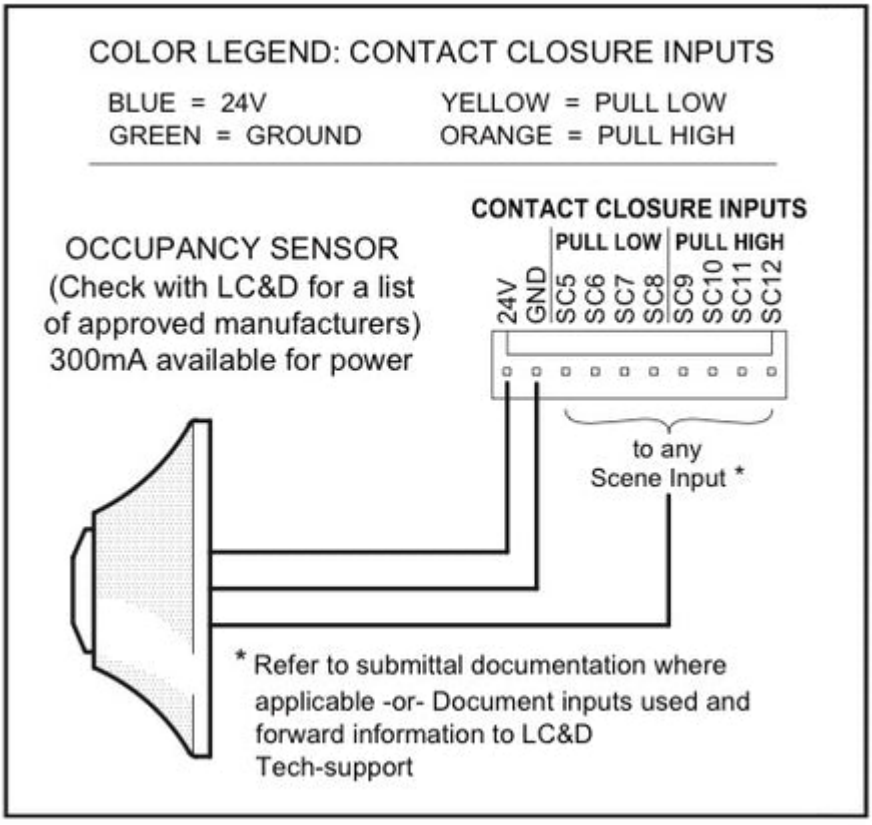
- STANDARD RANGE CEILING MOUNT 360
    - CM-9-R (PIR Detection)
    - CM-PDT-9-R (Dual Technology Detection)
- EXTENDED RANGE CEILING MOUNT 360
    - CM-10-R (PIR Detection)
    - CM-PDT-10-R (Dual Technology Detection)
- CORNER MOUNT/ WALL MOUNT
    - WV-16-R (PIR Detection)
    - WV-PDT-16-R (Dual Technology Detection)
    - HW-13-R (PIR Detection)

GR1400 BLUE BOX LTD DIMMING PANEL

The GR1400 LTD Dimming Panel is set up for occupancy sensor and daylighting inputs. On a GR1400 LTD panel, the driver board allows for:

- 4 indoor photocell inputs
- 4 pull high contacts for standard occupancy sensors (see Sensor Switch Occupancy Sensors)
- 4 pull low contacts for fire alarm, BMS, dry contact switches, and occupancy sensors with isolated relay (see list above)

A typical installation for an occupancy sensor to an LTD panel will look like this:



If more than one Occupancy Sensor is being used, the sensors can be wired in parallel if controlling the same lighting zone. If sensors are controlling different lighting zones then use different scene inputs.

For additional questions, please contact our Tech Department for compatibility of your occupancy sensors to Blue Box systems.

Lutron Wireless Energi Tri-Pak® Demonstration Video

Thought Lighting Control was complicated? Take a look at this video to see just how easy it can be with the Lutron Energi Tri-Pak® Wireless Lighting Control System