

WIRELESS CEILING MOUNT PIR OCCUPANCY SENSOR

LMPC-600



- Passive infrared occupancy sensor with a choice of three 360° lens options for different coverage patterns
- Dual IPv6 and Bluetooth® low energy antennas provide robust signal strength and reliable communication
- Uses IPV6 to establish network communication with all DLM wireless devices
- Streamlined low profile design and optional recessed mounting, for architectural appeal
- Quick and easy wireless installation
- Snap-on sensor mask for quick and easy coverage pattern customization
- Up to 10-year battery life; battery level can be viewed with wireless DLM software
- Extended height lens option for mounting up to 40'
- Commissioning using DLM Configuration App



DESCRIPTION

The LMPC-600 wireless low profile Digital PIR Ceiling Mount Occupancy Sensor uses passive infrared (PIR) technology and one of three lenses to detect occupancy in different types of spaces for energy-efficient control of lighting and plug loads. It is a digital sensor, and is part of the NEW wireless Wattstopper Digital Lighting Management (DLM) system.

OPERATION

The LMPC-600 communicates with the room controller(s) to turn loads on and off based on occupancy. It operates on an included CR123A battery providing a 10+ year lifespan. An installer can create a wireless mesh network via Push-to-Pair, connecting it to other wireless DLM devices in the room (e.g. LMRC-611 wireless dimming room controller or LMBC-650 wireless bridge) drastically reducing installation time and eliminating wiring errors. Default operation is established by Plug n' Go, which automatically configures system components to maximize energy savings. Initially, all occupancy sensors control all loads on the same local network. Each LMPC-600 may be assigned to a specific load; load assignments and load parameters may be changed using Push n' Learn. The LMPC-600 may be reconfigured using one of two options:

1. **DLM Configuration App** available for iOS® or Android®. Simply walk through the on screen prompts to connect and configure wireless DLM devices in the room. Plug n' Go automatic configuration assigns all loads connected to dimming room controllers to the dimming switch upon system startup.

2. **Push-to-Pair** – Press the “config” button on each wireless device in the room to pair them together.

DIGITAL SETTINGS AND WIRELESS COMMUNICATION

Changes are made at the sensor using the DLM Configuration App that communicates with the sensor via Bluetooth low energy technology. The built-in IPv6 and Bluetooth low energy radio transceivers in the LMPC-600 allows two-way communication for both wireless configuration using the DLM Configuration App and system operation. Time delay and sensitivity can be precisely adjusted and walk through mode can be activated.

APPLICATIONS

The wireless nature of the LMPC-600 make it ideal for renovations or any application where quick and easy installation of a lighting control system is desired. LMPC-600 sensors, with different lenses for different spaces, are ideal for high and low ceiling areas including open offices, computer rooms, conference rooms, classrooms, warehouses and gyms. Sensor coverage for walking motion is approximately 1,000 square feet using the extended range lens, 450 square feet using the high density lens and 3,800 square feet using the extended height lens. The high density lens is ideal for detecting desktop activity, and small motion coverage is up to 300 square feet.

PROJECT

LOCATION/
TYPE

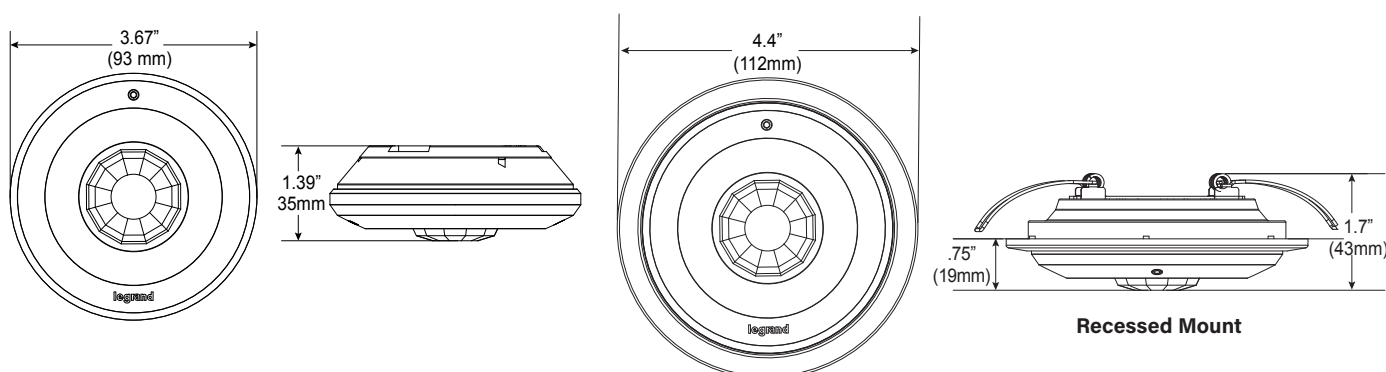
FEATURES

- Component of the wireless Digital Lighting Management integrated control system
- Robust and reliable BACnet over IPv6 Network based on open standards & protocols formed automatically with other wireless DLM components
- Backward compatible with wired DLM via wireless bridge (LMBC-650) enabling easy hybrid architecture when wired product functionality is needed
- Multiple options for commissioning: the DLM Configuration App for iOS or Android, Push-to-Pair
- Internal antennas with diversity provide robust signal strength and reliable communication
- IPv6 wireless standard delivers reliable, long range, low latency wireless communication that is scalable for a single room or entire buildings with thousands of rooms
- Plug n' Go™ automatic configuration for quick installation and maximum energy savings
- Firmware can easily be updated over the air using the DLM Configuration App (which communicates via Bluetooth low energy technology).
- Includes three 90° snap-on masks, for limiting coverage area
- Device Validation: Trusted hardware chips prevent any outside devices from being able to connect to the lighting control network.
- Zero touch provisioning: Pre-loaded digital identity and security profile increases system security level.
- Ongoing AES encryption: Communication between devices is protected by AES128 symmetric key encryption
- Push n' Learn™ functionality for customization without the need for tools or a PC
- 360 degree PIR coverage with extended range, high density, and extended height lens options
- Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
- Sensor coverage tested to NEMA Guide Publication WD 7-2000
- The product meets the materials restrictions of RoHS

SPECIFICATIONS

- Power Supply: Battery powered, Lithium Ion, CR123A 3V, 1500 mAh (included)
- Connection to DLM Network: Wireless IPv6 Mesh
- Wireless Standards supported:
 - IPv6 (6LoWPAN / 802.15.4 / 2.4GHz), range up to 60 ft.
 - Bluetooth low energy (802.15.4 / 2.4GHz), range up to 30 ft.
- Built-in Antennas: IPv6 and Bluetooth low energy
- Device Security: -Factory provisioned trusted hardware
- Wireless Encryption: AES 128-bit symmetric key
- Operating conditions: for indoor use only; 32-104°F (0-40°C); 5-95% RH, non-condensing
- UL and cUL listed
- FCC part 15 compliant
- Five year warranty

DIMENSIONS

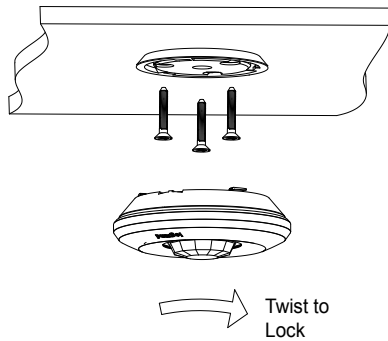


MOUNTING AND INSTALLATION

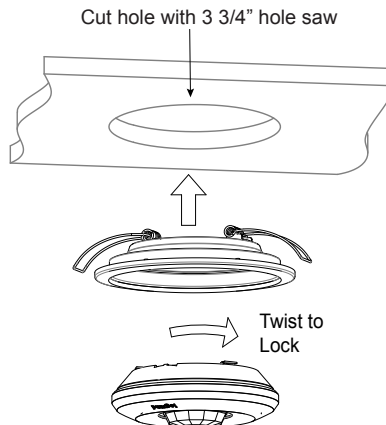
The LMPC-600 can be mounted using one of three possible methods:

- Mounted to the ceiling using the included mounting plate
- Mounted to a hanging threaded rod, for open ceiling environments, using the included threaded rod adapter
- Recessed mounting, using the optional LMPC-600-RPM Plenum Recessed Mounting Kit

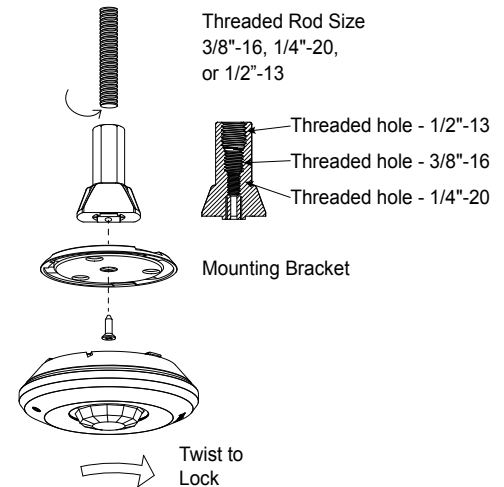
Ceiling Mount



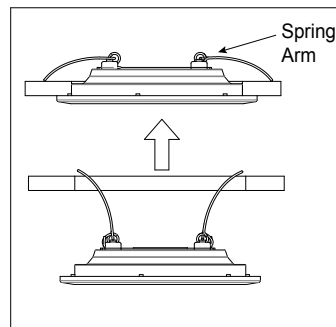
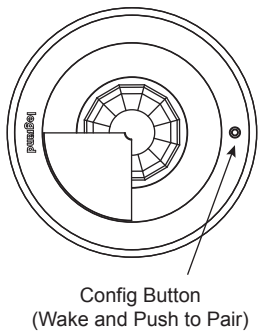
Recessed Mount



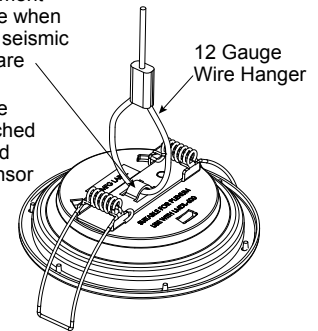
Threaded Rod Mount



The LMPC-600 ships with three 90° snap-on masks that can be used to limit the sensor coverage area.

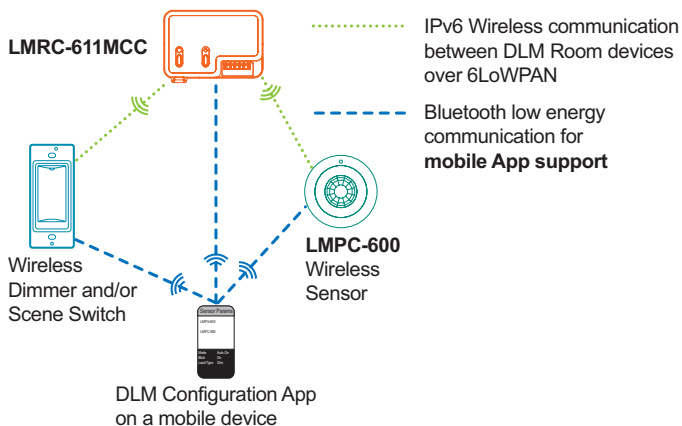


Hanger attachment feature, for use when local safety or seismic requirements are applicable.
Note: Once the sensor is attached to the recessed mount, the sensor will be firmly in place.

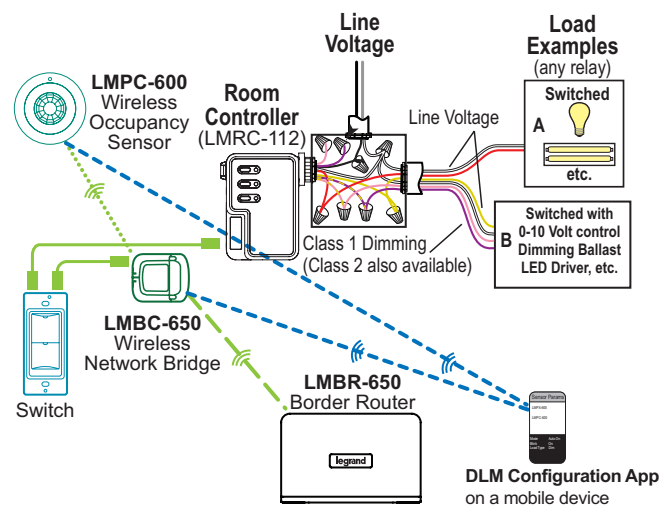


CONNECTION

Wireless Room



Hybrid Room (Wired and Wireless Devices)



Distance Recommendations:

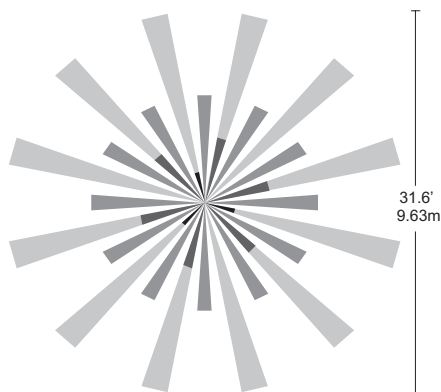
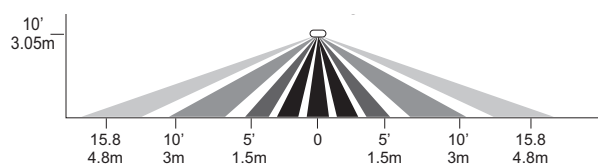
- 30' max between LMPC-600 and mobile device
- 60' max between LMPC-600 and room controller or bridge

Note: For a single (non-networked) hybrid room, the LMBR-650 is not required.

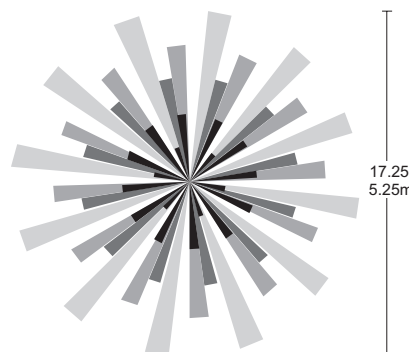
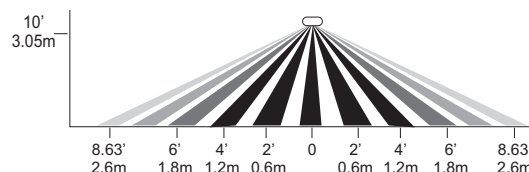
Note: The DLM Config App can only connect with the LMBC-650 to update firmware or pair devices. You need an LMBR-650 and LMCS to commission a Hybrid room. For a single room, without an LMBR-650, LMCS can connect to the LMBC-650 via the LMCI.

COVERAGE

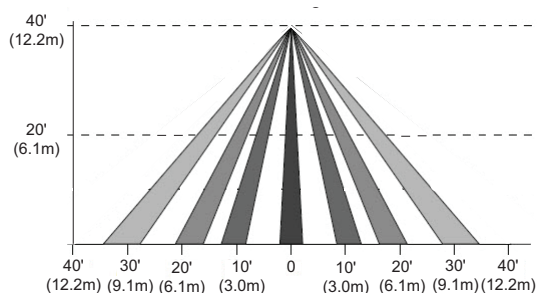
Coverages shown are maximum and represent half-step walking motion



LMPC-600, extended range lens

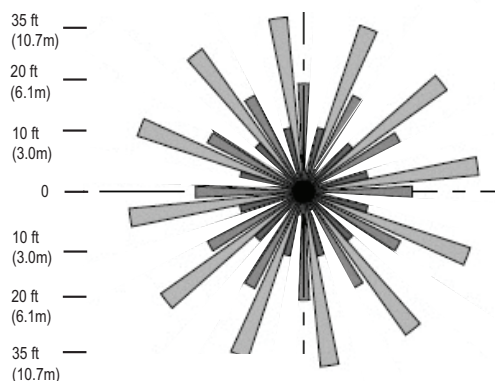


LMPC-600-1, high density lens



LMPC-600-5, extended height lens

Top View @ 40 ft



ORDERING INFORMATION

Catalog #		Description
☐	LMPC-600	Wireless Ceiling Mount PIR Occupancy Sensor, extended range lens
☐	LMPC-600-1	Wireless Ceiling Mount PIR Occupancy Sensor, high density lens
☐	LMPC-600-5	Wireless Ceiling Mount PIR Occupancy Sensor, extended height lens
☐	LMPC-600-RPM	Recessed Plenum Mounting Kit for LMPC-600

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