Legrand

WIRELESS CEILING MOUNT PIR OCCUPANCY SENSOR

LMPC-600

ioXt
internet of secure things

- 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

GET IT ON Google Play   Download on the App Store   IPv6   Bluetooth   RoHS

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 any one of three options:

1. **DLM Configuration App available for iOS® or Android®.** Simply walk through the on screen prompts to connect the wireless DLM devices in the room and choose from sequence of operations profiles. Plug n' Go automatic configuration assigns all loads connected to the most energy efficient Sequence of Operation once the wireless network is created.

2. **Push-to-Pair**, by pushing the "config" button on each wireless device in the room to pair them together.

3. **LMCS for networked projects.** Wattstopper LMCS software provides an easy method for commissioning the entire building and applying desired settings to devices on the network.

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.

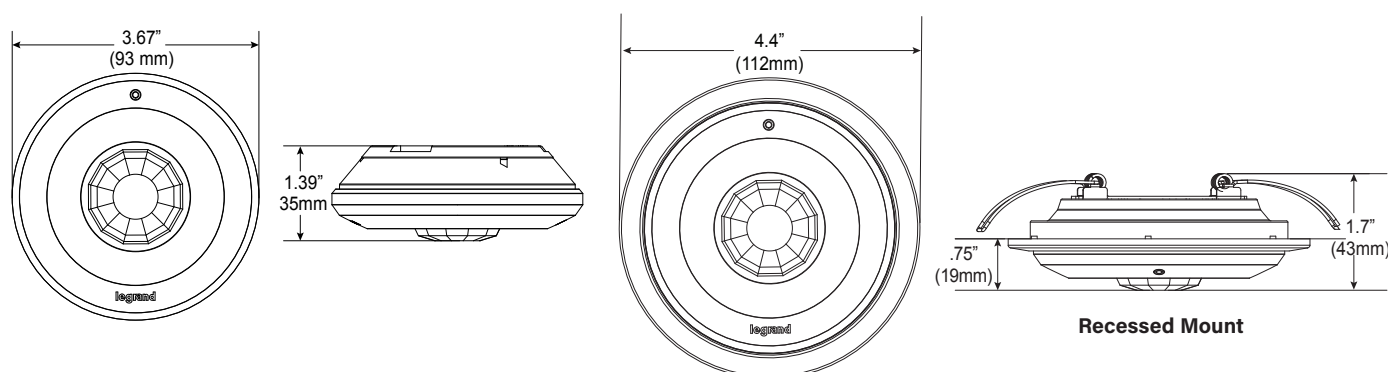| PROJECT		LOCATION/ TYPE	

FEATURES

- Component of the NEW 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

- Three options for commissioning: the DLM Configuration App for iOS or Android, Push-to-Pair, or LMCS for networked projects

- 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

- A fully networked DLM system, paired with RACCESS remote support, allows updates to be pushed to the entire building from the Wattstopper Remote Operations Center (ROC), avoiding downtime or service calls.

- Includes three 90° snap-on masks, for limiting coverage area

- Firmware can easily be updated over the air using the DLM Configuration App (which communicates via Bluetooth low energy technology) or LMCS software.

- 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
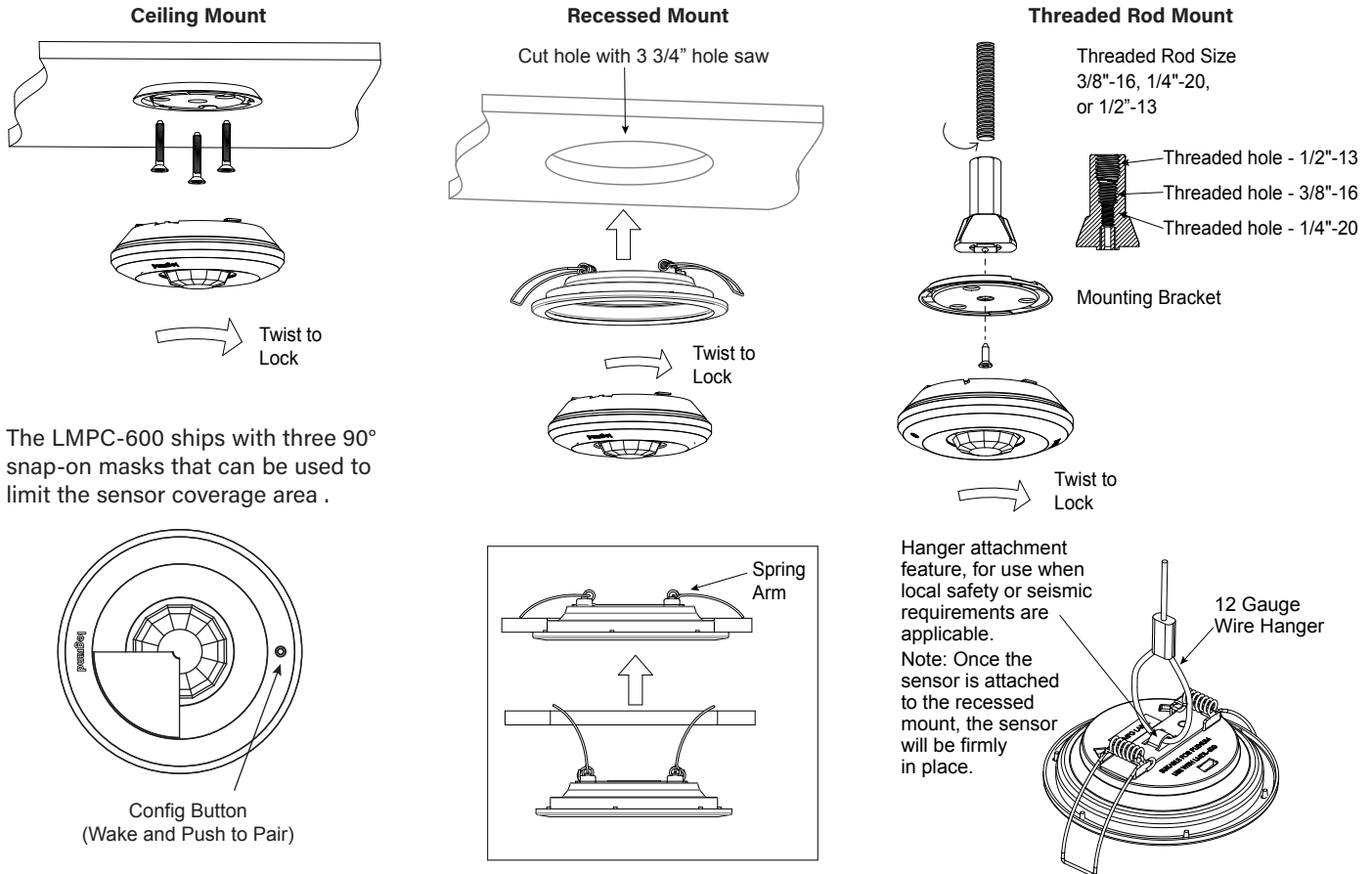
- FCC part 15 compliant
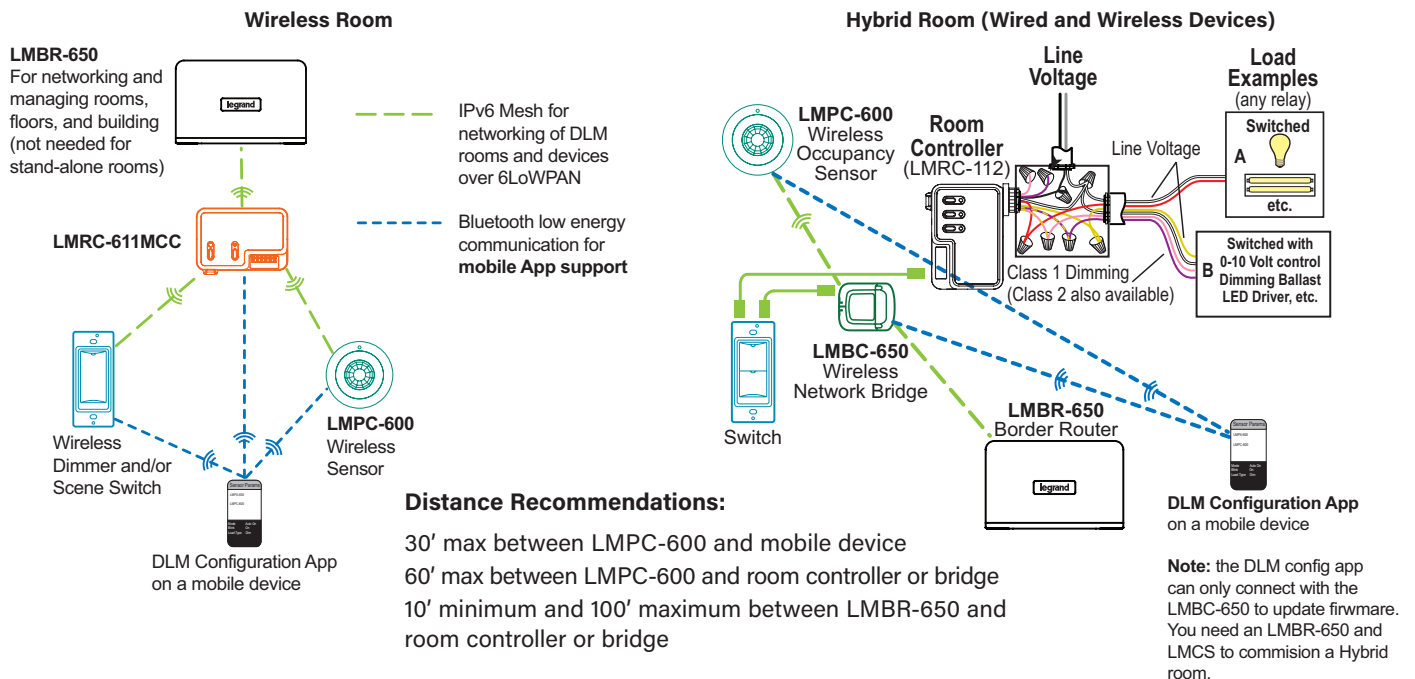
- Five year warranty

DIMENSIONS

3.67" (93 mm)

1.39" 35mm

4.4" (112mm)

.75" (19mm)

1.7" (43mm)

Recessed Mount

MOUNTING AND INSTALLATION

The LMPC-600 can be mounted using one of thee 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
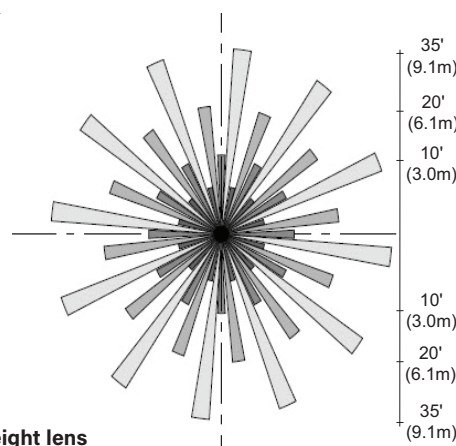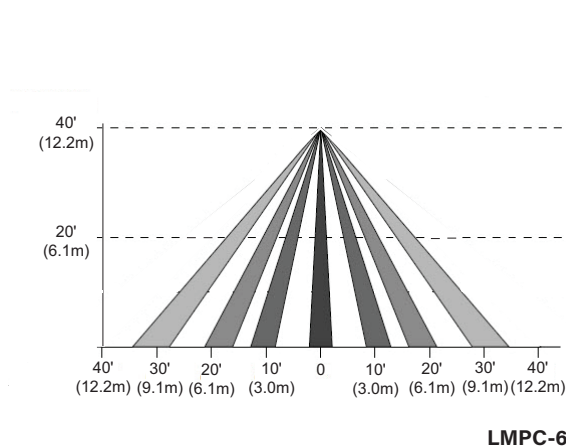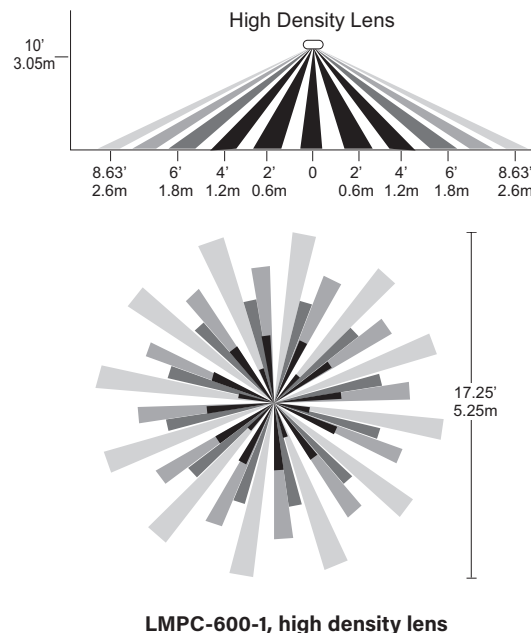- Recessed mounting, using the optional LMPC-600-RPM Plenum Recessed Mounting Kit
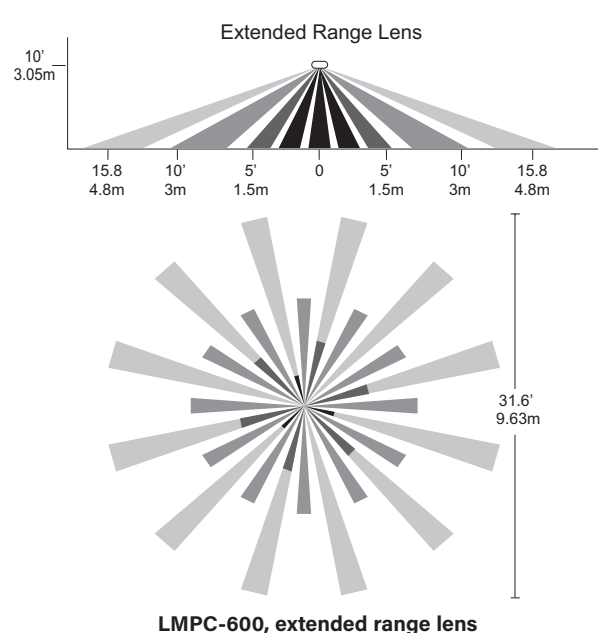
Ceiling Mount

Twist to Lock

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

Config Button
(Wake and Push to Pair)

Recessed Mount

Cut hole with 3 3/4" hole saw

Twist to Lock

Spring Arm

Threaded Rod Mount

Threaded Rod Size
3/8"-16, 1/4"-20,
or 1/2"-13

Threaded hole - 1/2"-13
Threaded hole - 3/8"-16
Threaded hole - 1/4"-20

Mounting Bracket

Twist to Lock

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.

12 Gauge Wire Hanger

CONNECTION

Wireless Room

LMBR-650
For networking and managing rooms, floors, and building (not needed for stand-alone rooms)

IPv6 Mesh for networking of DLM rooms and devices over 6LoWPAN

LMRC-611MCC

Bluetooth low energy communication for **mobile App support**

Wireless Dimmer and/or Scene Switch

LMPC-600 Wireless Sensor

DLM Configuration App on a mobile device

Distance Recommendations:

30' max between LMPC-600 and mobile device
60' max between LMPC-600 and room controller or bridge
10' minimum and 100' maximum between LMBR-650 and room controller or bridge

Hybrid Room (Wired and Wireless Devices)

Line Voltage

Load Examples
(any relay)

LMPC-600 Wireless Occupancy Sensor

Room Controller (LMRC-112)

Line Voltage

Switched A
etc.

Class 1 Dimming (Class 2 also available)

Switched with B 0-10 Volt control Dimming Ballast LED Driver, etc.

LMBC-650 Wireless Network Bridge

Switch

LMBR-650 Border Router

DLM Configuration App on a mobile device

Note: the DLM config app can only connect with the LMBC-650 to update firmware. You need an LMBR-650 and LMCS to commision a Hybrid room.

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COVERAGE

Coverages shown are maximum and represent half-step walking motion

Extended Range Lens

LMPC-600, extended range lens

High Density Lens

LMPC-600-1, high density lens

LMPC-600-5, extended height lens

ORDERING INFORMATION

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

*Product is compliant with Buy American Act and Trade Agreement Act

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