WIRELESS CORNER MOUNT PIR OCCUPANCY SENSOR

LMPX-600

- 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
- Quick and easy wireless installation
- Up to 10-year battery life; battery level can be viewed with wireless DLM software
- Commissioning using DLM Configuration App
- Compact 2" x 5.7" sensor mounts easily on a wall, corner, or ceiling; multiple mounting options provide flexibility

DESCRIPTION

The LMPX-600 wireless low profile Digital PIR Corner 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 LMPX-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 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 LMPX-600 may be assigned to a specific load; load assignments and load parameters may be changed using Push n' Learn. The LMPX-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 LMPX-600 makes it ideal for renovations or any application where quick and easy installation of a lighting control system is desired. LMPX-600 sensors, with different lenses for different spaces, are ideal for high and low ceiling areas including large offices, computer rooms, kindergarten classrooms, aisle-ways, warehouses and open offices where coverage cut-off is desired.

The sensors can detect walking motion throughout an area of approximately 2,000 square feet. The high density lens provides coverage of desktop activity for an area up to 1,000 square feet. The long range and aisle-way lenses detect motion approaching the sensor as far out as 85 to 90 feet and 55 to 60 feet, respectively.

| 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

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

- 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

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

- 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.

- Plug n' Go™ automatic configuration for quick installation and maximum energy savings

- Push n' Learn™ functionality for customization without the need for tools or a PC

- Internal antennas with diversity provide robust signal strength and reliable communication

- 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

- Backward compatible with wired DLM via wireless bridge (LMBC-650) enabling easy hybrid architecture when wired product functionality is needed

- Device Security: Factory provisioned trusted hardware with Legrand-private certificate chain and signed ECC keypair.

- 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

- Wireless Encryption: AES 128-bit symmetric key

- Device Security: Factory provisioned trusted hardware with Legrand-private certificate chain and signed ECC keypair

- 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

PRODUCT DIMENSIONS
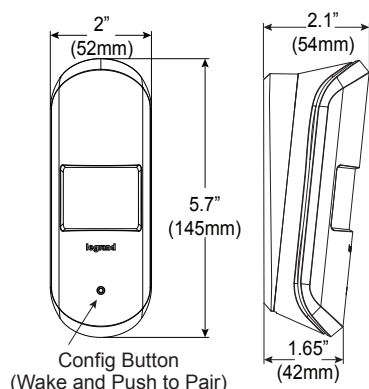

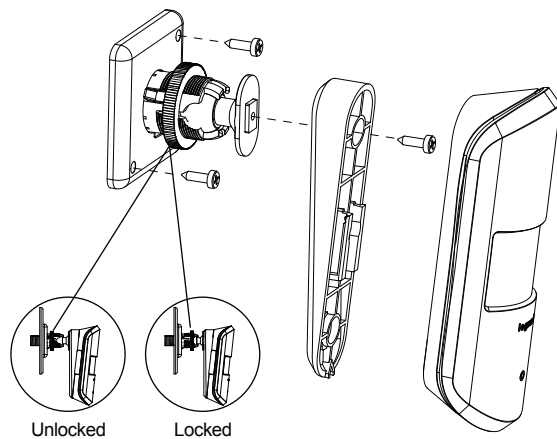**With Plate Mount Attached**
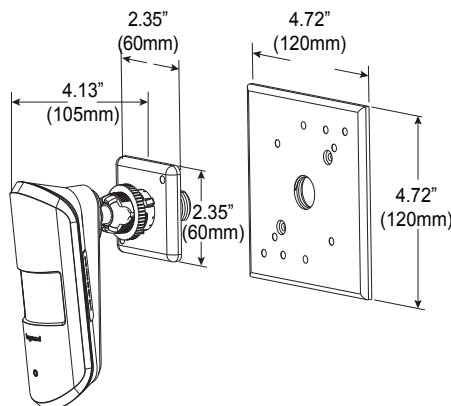
With Ball Mount

MOUNTING

The LMPX-600 can be mounted using one of thee possible methods:

- Mounted to a wall or corner using the included mounting plate
- Mounted directly to a wall, using the included ball mount
- Mounted to a j-box within a wall, using the included ball mount and ball mount plate
- Mounted to a ceiling, using the included ball mount and ball mount plate
- Mounted to a hanging threaded rod, for open ceiling environments, using the included threaded rod adapter
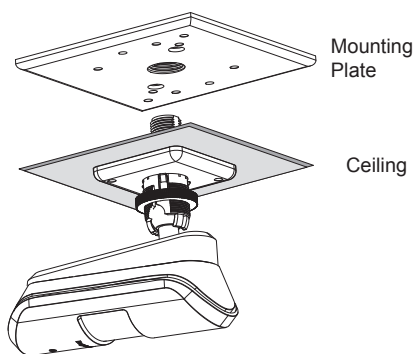
Beveled edges on plate allow for mounting into a corner
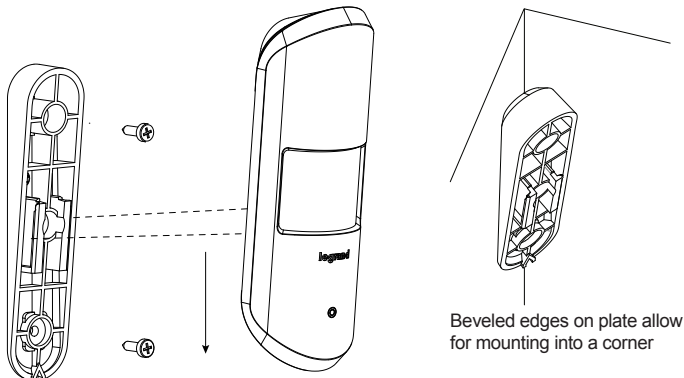
Align the slots of the bracket to the ribs on the back of the sensor. Then slide the unit into the bracket until it is locked in place.

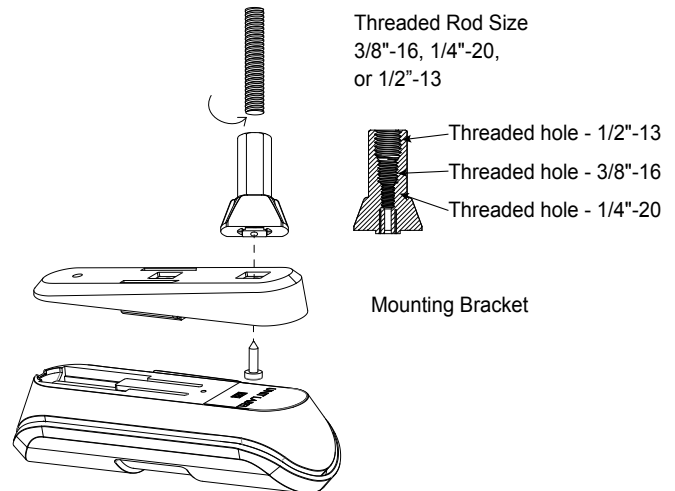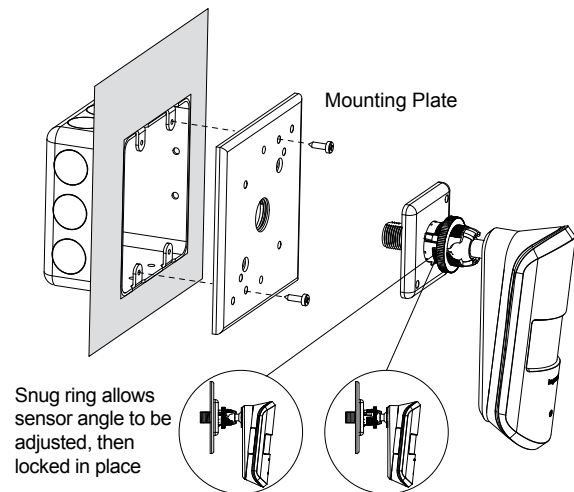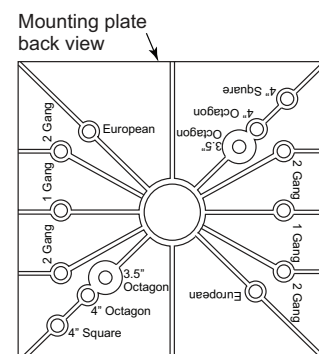**Wall/Corner Mount**

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

Threaded Rod Mount

Unlocked   Locked

Ball Mount to Wall

Mounting Plate

Snug ring allows sensor angle to be adjusted, then locked in place

Ball Mount to J-Box

Mounting Plate

Ceiling

Ball Mount to Ceiling

Mounting plate back view

4" Square
4" Octagon
3.5" Octagon
European
2 Gang
1 Gang
2 Gang
2 Gang
1 Gang
2 Gang
2 Gang
1 Gang
2 Gang
European
3.5" Octagon
4" Octagon
4" Square

Mounting plate accommodates different size J-boxes

COVERAGE PATTERNS

60'

Top view 100°

LMPX-600, wide angle lens

Side view

8'

0 7' 12' 25' 60'

Top View

16ft
8ft
0
8ft
16ft

Side View

8ft

0   6' 10ft 16ft   27ft   60ft
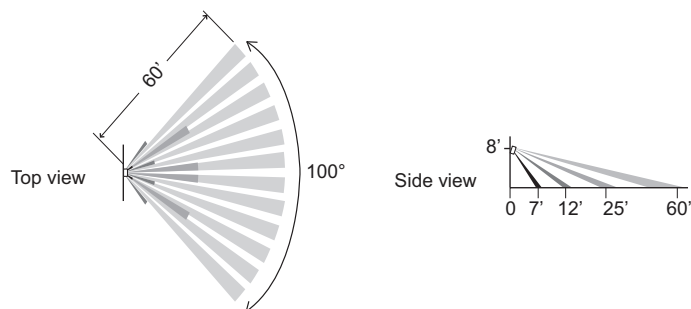
LMPX-600-1, long range lens

LMPX-600-4, extra wide angle lens

Top View:

20ft
10ft
0
10ft
20ft

Side View

8ft

0   10ft 20ft 30ft 40ft 45ft
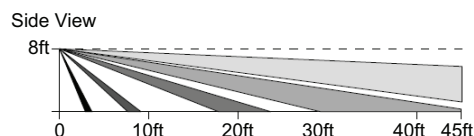
CONNECTION

Wireless Room

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

LMRC-611MCC

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

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

Wireless Dimmer and/or Scene Switch

LMPX-600 Wireless Sensor

DLM Configuration App on a mobile device
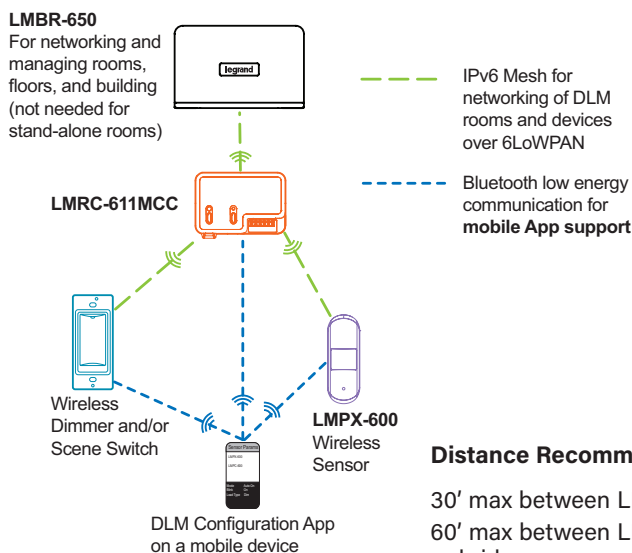
Hybrid Room (Wired and Wireless Devices)

Line Voltage

LMPX-600 Wireless Occupancy Sensor

Room Controller (LMRC-112)

Line Voltage

Load Examples (any relay)

Switched
A

etc.

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

Class 1 Dimming (Class 2 also available)

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.

Distance Recommendations:

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

ORDERING INFORMATION

Catalog #		Description
☐	LMPX-600	Wireless Corner Mount PIR Occupancy Sensor, wide angle lens
☐	LMPX-600-1	Wireless Corner Mount PIR Occupancy Sensor, long range lens
☐	LMPX-600-4	Wireless Corner Mount PIR Occupancy Sensor, extra wide angle lens

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