PIR CEILING MOUNT OCCUPANCY SENSOR

LMPC-100

Passive infrared sensor with a choice of three 360° coverage patterns

Extended height lens option for mounting heights up to 40'

Quick access to Push n' Learn for system personalization

Digital sensor with programming pushbuttons behind snap-off cover

IR transceiver for wireless configuration and remote control*

Low profile design for architectural appeal

DESCRIPTION

The LMPC-100 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 a Wattstopper Digital Lighting Management (DLM) system.

OPERATION

The LMPC-100 operates on Class 2 power supplied to a DLM local network by one or more DLM room controllers. It works with the room controller(s) to turn loads on and off based on occupancy. 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-100 may be assigned to a specific load; load assignments and load parameters may be changed using Push n' Learn. The LMPC-100 may be reconfigured using either the pushbuttons with LED feedback, LMCT-100-2 wireless configuration tool, or LMCS-100 software.

DIGITAL SETTINGS & IR COMMUNICATIONS

The LMPC-100 includes easy-to-access pushbuttons and LEDs used to change parameters. Time delay and sensitivity can be precisely adjusted. Additionally, walk through mode can be activated.

Changes can also be made with the LMCT-100-2 wireless configuration tool, which communicates with the sensor using a bi-directional infrared (IR) signal. The LMPC-100 IR transceiver allows wireless system operation in addition to configuration.

APPLICATIONS

The LMPC-100 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.

FEATURES

- 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
- Digital Lighting Management components plug together on a free-topology Category 5e DLM local network
- Infrared (IR) transceiver for wireless configuration and control*
- 360 degree PIR coverage
- 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
- BAA/BABA-compliant models available

*IR wireless communications may be disabled via LMCS-100 software

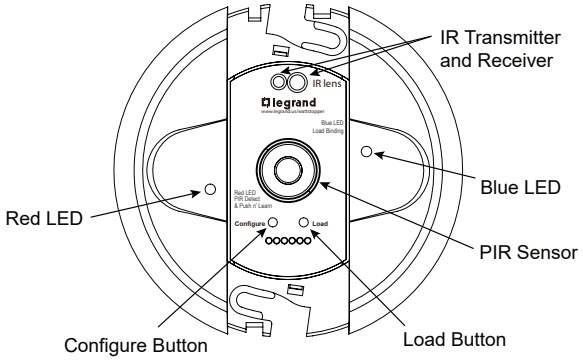
PROJECT		LOCATION/ TYPE	

SPECIFICATIONS

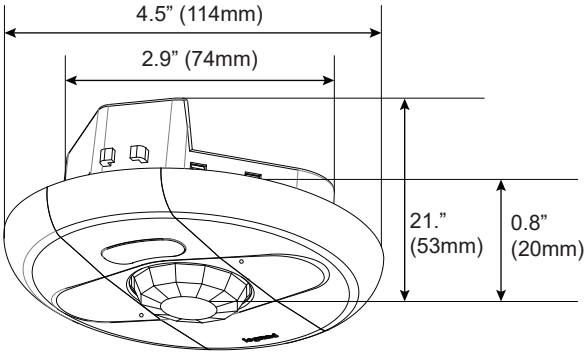
- Input voltage: 24VDC from DLM network
- Current consumption: 7mA
- DLM local network connection: 2 RJ45 ports
- Pushbuttons and LEDs for setting sensor and system parameters
- Infrared (IR) transceiver
- Operating conditions: for indoor use only; 32-131°F (0-55°C); 5-95% RH, non-condensing
- UL and cUL listed
- FCC part 15 compliant
- Five year warranty

CONTROLS & DIMENSIONS

Product Controls and Sensor Setting



Product Dimensions



NOTE: IR wireless communications may be disabled via LMCS-100 software

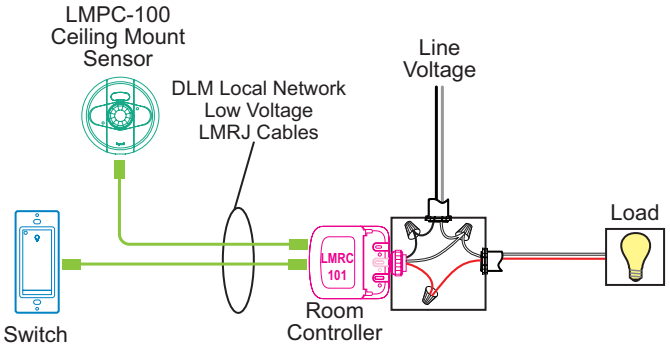
Sensor Parameter	Available Options	Default Setting
Time Delay	1-30 min. (1 min. increments) /Override*	20 minutes
Walk Thru**	On/Off	Off
PIR Sensitivity	10-100% (10% increments)/Off	90%
Test Mode	Activate	Off
Detection Technology**	PIR	On
Retrigger Technology**	PIR	On

* 5 minute increments via programming buttons. 1 minute increments available if using LMCT-100-2 Configuration Tool or LMCS-100 Software.

** These parameters only available using the LMCT-100-2 Configuration Tool or LMCS-100 Software.

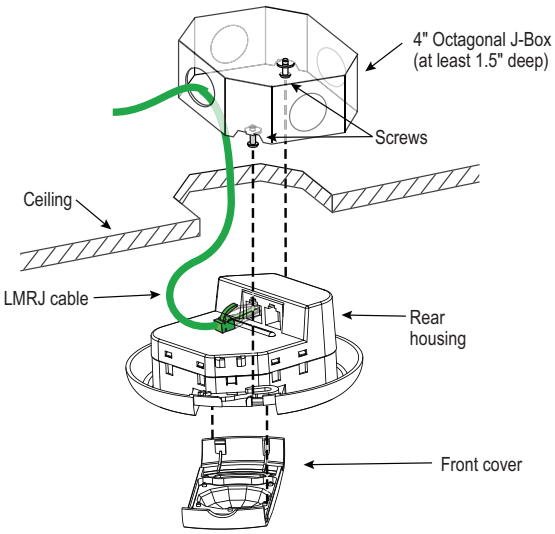
MOUNTING & CONNECTING

Sample Connection Diagram



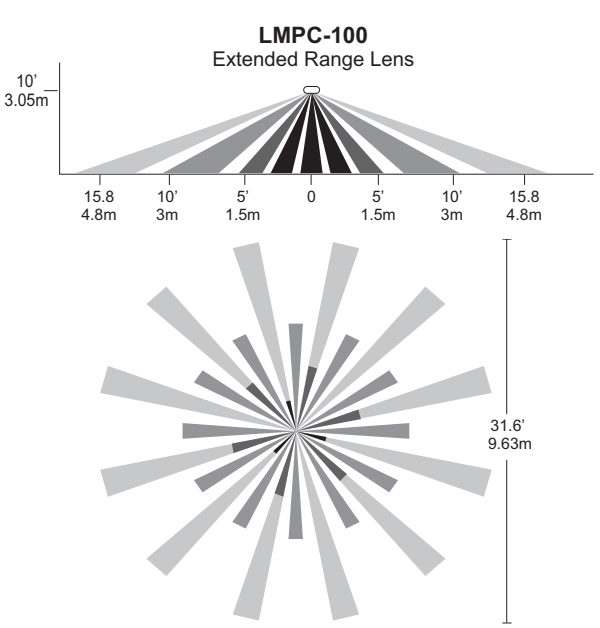
Plug DLM local network components together in any configuration using Cat 5e cables with RJ45 connectors.

Mounting Options

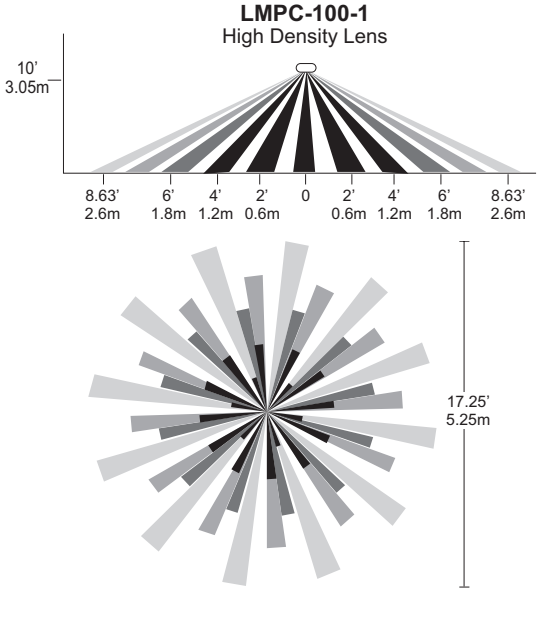


Mount to a 4" octagonal box (as shown) or directly to ceiling tile using spring clips (included). Box mounting required for plenum rating. See installation instructions for more details.

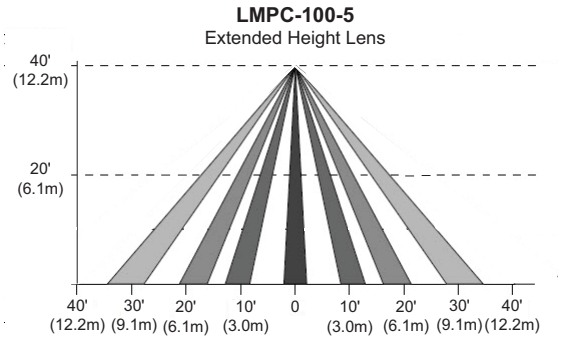
COVERAGE

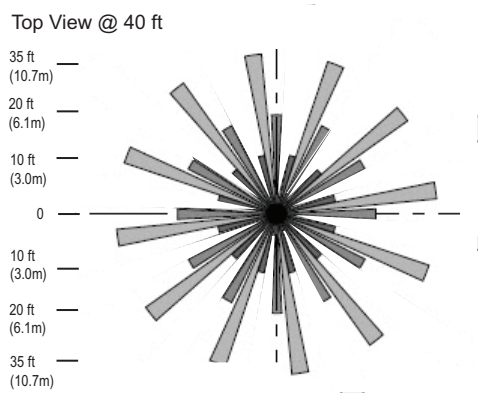


LMPC-100, extended range lens



LMPC-100-1, high density lens





LMPC-100-5, extended height lens

ORDERING INFORMATION

Catalog #		Color	Description
☐	LMPC-100	White	Digital PIR Ceiling Mount Occupancy Sensor, extended range lens
☐	LMPC-100-U	White	Digital PIR Ceiling Mount Occupancy Sensor, extended range lens, BAA/BABA-compliant*
☐	LMPC-100-1	White	Digital PIR Ceiling Mount Occupancy Sensor, high density lens
☐	LMPC-100-1-U	White	Digital PIR Ceiling Mount Occupancy Sensor, high density lens, BAA/BABA-compliant*
☐	LMPC-100-5	White	Digital PIR Ceiling Mount Occupancy Sensor, extended height lens
☐	LMCT-100-2		Digital Wireless Configuration Tool
☐	LMCT-100-2-U		Digital Wireless Configuration Tool, BAA/BABA-compliant*

*Product is compliant with the Buy American Act and Build America, Buy America Act

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