DUAL TECHNOLOGY CORNER MOUNT OCCUPANCY SENSOR

LMDX-100

Combines passive infrared and ultrasonic technologies for most comprehensive coverage

Component of Digital Lighting Management integrated control system

Quick access to Push n' Learn for system personalization



Digital sensor with LCD display and programming pushbuttons behind snap-down cover

IR transceiver for wireless configuration and remote control*

Compact 2.4" x 3" sensor mounts easily on a wall or ceiling

DESCRIPTION

The LMDX-100 Digital Dual Technology Corner Mount Occupancy Sensor uses both passive infrared (PIR) and ultrasonic technologies to achieve precise occupancy sensing 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 LMDX-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 LMDX-100 may be assigned to a specific load; load assignments and load parameters may be changed using Push n' Learn. The LMDX-100 may be reconfigured either using the pushbuttons and an LCD screen conveniently located behind a snap-down cover on the front of the sensor, or with a wireless configuration tool.

DIGITAL SETTINGS AND IR COMMUNICATION

The LMDX-100 includes a unique, easy-to-access, LCD screen that displays sensor parameters and simplifies changing those parameters. Time delay and sensitivity can be precisely adjusted. Additionally, walk through mode can be activated and detection and retrigger technologies may be changed. Changes are made at the sensor with easy-to-use pushbuttons, or via the LMCT-100-2 wireless configuration tool that communicates with the sensor using a bi-directional infrared (IR) signal. The LMDX-100 IR transceiver allows wireless system operation in addition to configuration. The LCD display also facilitates system personalization, showing load information when in Push n' Learn mode.

APPLICATIONS

The LMDX-100 senses both large and small motions and is recommended for spaces including conference rooms, private offices, classrooms and computer rooms where using just one detection technology could result in false triggers. Mounted at ten feet, the LMDX-100 can detect walking motion throughout an area of approximately 2,000 square feet, and desktop motion for up to 1,000 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
- Ultrasonic diffusion technology spreads coverage to a wider area (patented); 40KHz signal
- Infrared (IR) transceiver for wireless configuration and control*
- 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

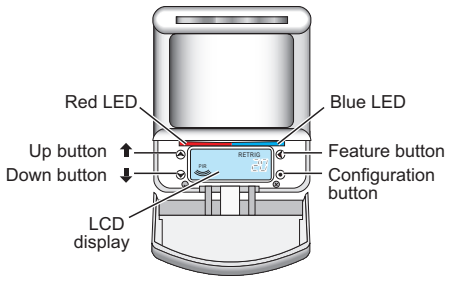
PROJECT		LOCATION/ TYPE	

SPECIFICATIONS

- Input voltage: 24VDC from DLM network
- Current consumption: 20mA
- DLM local network connection: 1 RJ45 port via RJ45 plug and coupler (included)
- LCD display and pushbuttons for setting sensor and system parameters
- Infrared (IR) transceiver
- Ultrasonic frequency: 40 kHz
- Mounting Plate pre-drilled hole sizes: 1-Gang, 2-Gang, 3.5" Octagon, 4" Octagon, 4" Square, European Mount
- 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

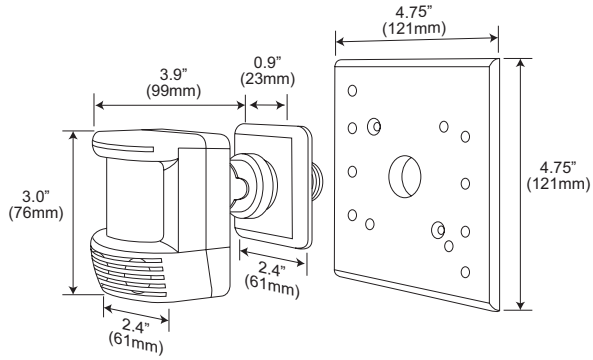
CONTROLS & INDICATORS

Product Controls and Sensor Settings



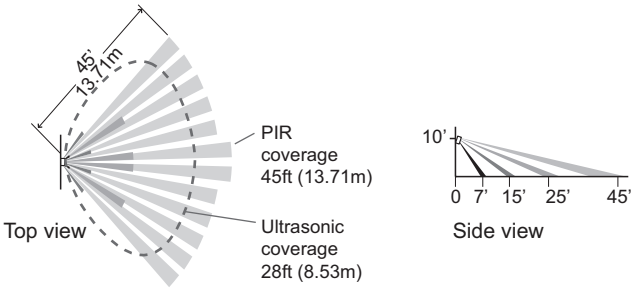
Sensor Parameter	Available Options	Default Setting
Time Delay	1-30 min. (1 min. increments) /Override	20 minutes
Walk Thru	On/Off	Off
PIR Sensitivity	10-100% (10% increments)/Off	90%
Ultrasonic Sensitivity	10-100% (10% increments)/Off	70%
Test Mode	Activate	Off
Detection Technology	Ultrasonic/PIR/Both/Either	Both
Retrigger Technology	Ultrasonic/PIR/Both/Either	Either

DIMENSIONS

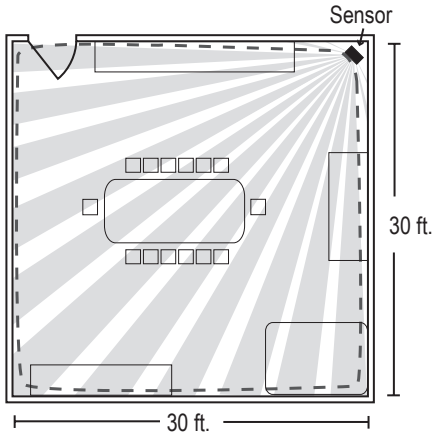


COVERAGE AND PLACEMENT

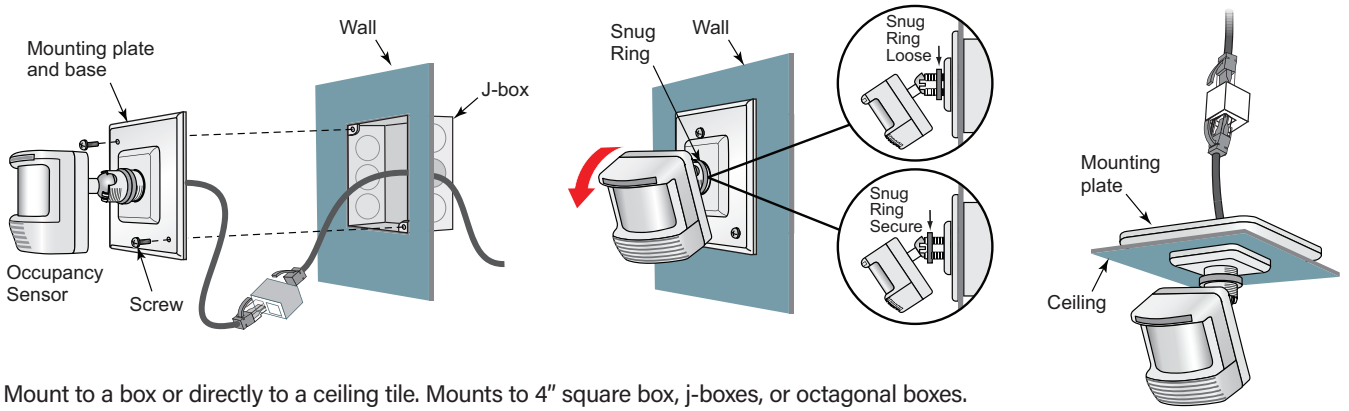
Coverage Patterns



Sensor Placement



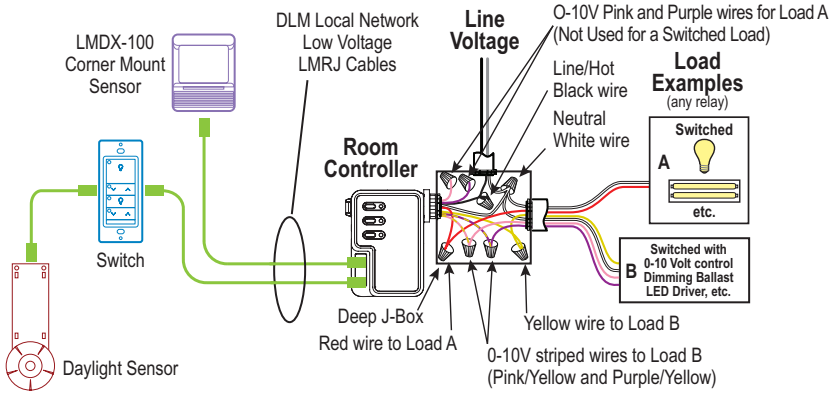
WALL AND CEILING MOUNTING OPTIONS



Mount to a box or directly to a ceiling tile. Mounts to 4" square box, j-boxes, or octagonal boxes. See installation instructions for more details.

WIRING

Sample Connection Diagram



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

ORDERING INFORMATION

Catalog #		Description
☐	LMDX-100	Digital Dual Technology Corner Mount Occupancy Sensor
☐	LMDX-100-U	Digital Dual Technology Corner Mount Occupancy Sensor, BAA/BABA compliant*
☐	LMCT-100-2	Wireless Configuration Tool with USB
☐	LMCT-100-2-U	Wireless Configuration Tool with USB, BAA/BABA compliant*

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

26647r7 Rev 10/26