

Line Voltage Sensor

LRM2240/LRM2245

PIR, Ceiling Mount, 530 sq. ft. @ 8'



Specifier's Reference

| |
|-----------|
| Project |
| Type |
| Model No. |
| Comments |

description

- This self-contained passive infrared ceiling occupancy sensor is the cost-effective choice for commercial and institutional applications where installation of the recessed ceiling unit is difficult, inconvenient, or costly.

features

- **Passive Infrared Technology (PIR).**
- **Field of View:** 360° field of view with approximately 530 sq. ft. of coverage when mounted at 8 ft. This reduces the number of additional sensors typically required in many spaces.
- **Small Size:** The spherical-section shape makes the installation almost invisible.
- **Fast, Simple Installation:** Unit may be mounted directly to a three or four inch octagon box. The sensor wires directly to the luminaire.
- **Application:** Suitable for storage areas, copy rooms, small spaces w/out wall switches, small bathrooms, closets, and retrofit.
- **Time Delay Settings:** Adjustable delayed-OFF time setting between 20 seconds and 15 minutes allows custom adjustment for maximum savings.
- **Ambient Light Recognition:** An ambient light override option can be set between 2 and 500+ footcandles and full brightness to prevent the sensor from switching lights ON when ample natural sunlight is available. Hold-OFF feature.
- **OFF Switching:** A standard A/C toggle switch may be used to provide manual-OFF override so that lights may be switched OFF.
- **LED Indicator Light:** Flashes when sensor detects motion, to verify power placement and function of the sensor at installation.
- **Sensor and Switching Relay in One Unit:** reduces labor and need for additional materials.

specifications

- **Indicator:** Red LED lamp - Infrared motion.
- **Lens:** Segmented Fresnel lens contains 79 segments for optimum sensitivity and detection performance.
- **Timer Settings:** Manual - 20s to 15 min.
- **Construction:** Housing - rugged, high impact, injection molded plastic.
- **Operating Environment:** 32°F to 122°F (0°C to 50°C); 20% to 90% non-condensing, relative humidity. For indoor use only.
- **Listings:** UL Listed and CSA Certified, complies with California Title 24 Energy Code and FCC regulations.
- **Line Voltage:** 120-277 VAC
- **Power Consumption:**
120V-1.45W
277V-1.89W
- **Operational Frequencies:** 60Hz
- **Wire Designation:**
Line-Black; Neutral-White;
Load-Blue
- **Load Rating:**
1000VA @ 120V
2700VA @ 277V

operation

The LRM2240/LRM2245 uses passive infrared (PIR) detection technology to monitor a room for occupancy through a segmented Fresnel lens. This specialized lens divides the field of view into sensor zones. When a person passes into or out of a sensor zone, the sensor detects motion and switches its lighting loads ON. The lights will remain ON as long as there is an occupant moving through the sensor zones.

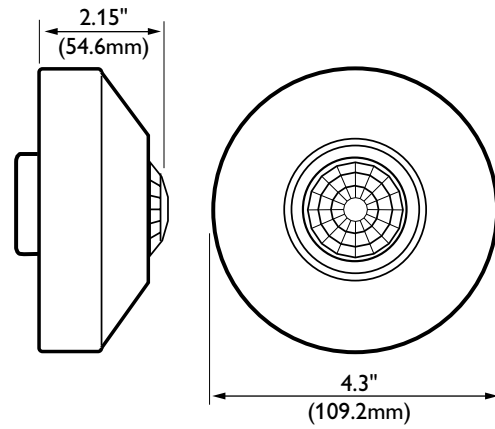
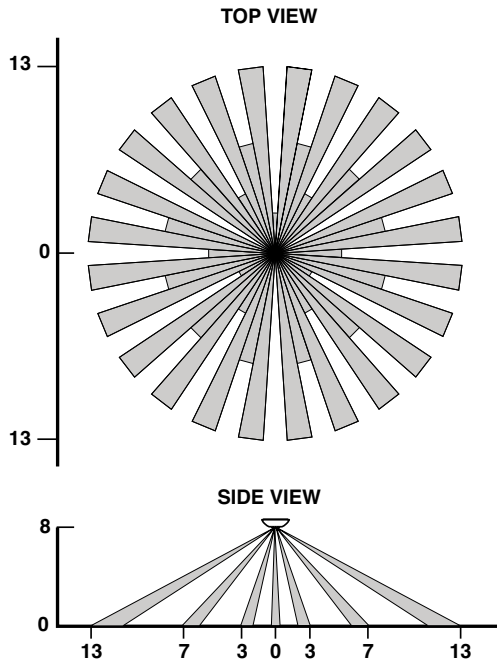
The ideal location for the sensor is in a ceiling area that provides a full view of the space with an unobstructed path to the entrance way(s), but out of line from hallway traffic. The sensor should be positioned at least 6 feet from HVAC registers to prevent false triggering.

Ordering Information:

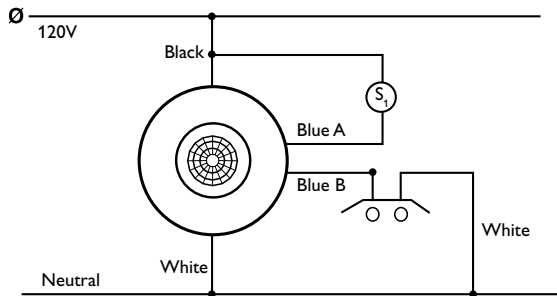
| Part Number | Voltage | Coverage | View Pattern |
|-------------|---------|------------------|---------------|
| LRM224000 | 120V | 530 sq. ft. @ 8' | 360° 26' x 8' |
| LRM224500 | 277V | 530 sq. ft. @ 8' | 360° 26' x 8' |

field of view

dimensions



wiring diagrams



LRM2240/LRM2245 Wiring Diagram with optional switch for override to OFF
* Same wiring for all voltages.



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Contact Factory for Additional Configurations.
Specifications are subject to change without notice.