

Line Voltage Sensor
LRM2350/LRM2355/LRM2360
LRM2365/LRM2368
PIR, High Bay Sensor, Aisle Focus
Photocell, Low Temp Options



Specifier's Reference

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

description

• These 360° High Bay Aisleway PIR occupancy sensors provide bi-directional detection extending 70-110 ft when mounted at heights of 30-45 ft. They install to a junction box or fixture and have a detection pattern that covers the area lit by three typically spaced high bay fixtures. The LRM2368 enables direct switching of 480 VAC lighting loads.

features

- **Passive Infrared Technology (PIR):** 100% digital PIR detection, excellent RF immunity.
- **Coverage:** 360° coverage pattern provides bi-directional detection extending 70-110 ft (21.33-33.53 m) when mounted at heights of 30-45 ft (9.14-13.72 m).
- **Lens Rotation:** Sensor lens turret rotates 90° in order to easily adjust the direction of the view pattern.
- **Fast, Simple Installation:** Installs directly to luminaire or electrical junction box through a 1/2" knockout
- **Application:** Suitable for use in warehouses, manufacturing, and other high ceiling applications.
- **Energy Savings Minimum ON Timer.**
- **Push-Button Programmable Adjustable Time Delays:** No field calibration or sensitivity adjustments required.
- **Easy Wiring:** Interchangeable hot and load wires, impossible to wire backwards.
- **Masking Kit:** A masking kit is provided in order to mask off a portion of the view pattern for end-of-aisle applications, or to trim the sensor's side viewing to create a rectangular pattern for center-of-aisle viewing only.
- **Convenient Test Mode.**
- **Burn-In Timer:** 100 hour lamp burn-in timer.
- **Optional Luminaire Bracket:** If the sensor's field of view is partially blocked by the luminaire housing, the luminaire bracket, LRM2369 (order separately) can be used to lower the sensor down to a level where its view is not impaired.
- **Self-Contained Relay:** No power pack needed.
- **Photocell:** Provides hold back if adequate light is available (LRM2360/2365/2368 only) Photocell models feature auto set-point calibration, views down through sensor lens.

- **Photocell models offer two modes of operation:** on/off mode - photocell has full control during occupancy. inhibit mode - photocell can prevent lights from turning on if adequate daylight is available, but cannot turn lights on.
- **Low temp models offer corrosion resistance and operate down to -40°F/C** (required for cooler/freezer applications). Analog PIR used with LT units are non ROHS compliant.
- **Dimming outputs to control 0-10VDC dimmable ballasts are optional.** Consult factory.
- **Optional installed corded leads (36") are also available.** Consult factory.

specifications

- **Indicator:** Green LED lamp - Infrared motion
- **Lens:** High Bay Aisleway
- **Timer Delay:** 30s to 20 min. (factory set to 10 min.)
- **Construction:** Housing - rugged, high impact, injection molded plastic
- **Size:** 3.63"H x 3.63"W x 1.5"D, weight - 6 oz
- **Color:** White
- **Operating Environment:** 14°F to 160°F (-10°C to 71°C); 20% to 90% non-condensing, relative humidity. For indoor use only.
- **Operational Frequencies:** 50/60Hz
- **Wire Designation:**
LRM2350, LRM2360: Line-Black*, Load-Black*, Neutral-White
LRM2355, LRM2365: Black wires are replaced w/Red wires
LRM2368:
Phase A Line Input-Black*, Phase A Load Input-Black*
Phase B Line Input-Blue**, Phase B Load Input-Blue**
White-Connect to either Line Input
*Black wires can be reversed
**Blue wires can be reversed
- **Input Voltage:** 120-277 VAC (LRM2350, LRM2360) 347VAC (LRM2355, LRM2365) 480VAC (LRM2368 models)
- **Load Rating:**
800W @ 120VAC
1200W @ 277VAC
1500W @ 347VAC
5 Amps @ 480VAC (LRM2370) Motor: 1/4 HP Load
- **Listings:** UL Listed and cUL Listed.

operation

This sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. When occupancy is detected, a self-contained relay switches the connected lighting load on. The sensor is line powered, switches line voltage, and requires no field calibration or sensitivity adjustments. The LRM2368 can switch 2 phases of 480 VAC line power going to a load. It is best used for sensor per luminaire applications.

These sensors also contain technology that allows users to aggressively target energy savings while still protecting lamp life. A minimum ON timer, factory set at 15 minutes, helps preserve lamp life by eliminating all lamp cycles shorter than lamp warranties specify. A standard occupancy time delay is also present that ensures lights turn off (assuming minimum on timer has elapsed) if no occupancy is detected. This timer is factory set at 10 minutes to

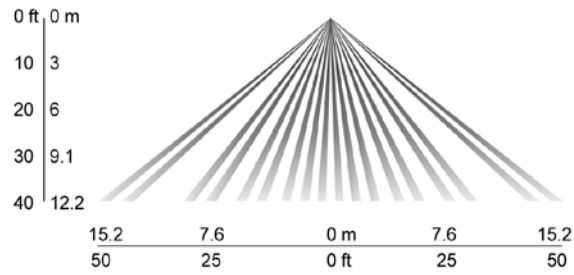
promote energy savings, but is adjustable between 30 seconds and 20 minutes. These adjustments can be done manually, through the units push-button, or automatically every two weeks through an advanced mode that determines the optimum time delay in order to maximize both lamp life and energy savings. Additionally, these sensors maintain statistics on total lamp on time and number of cycles.

Ordering Information:

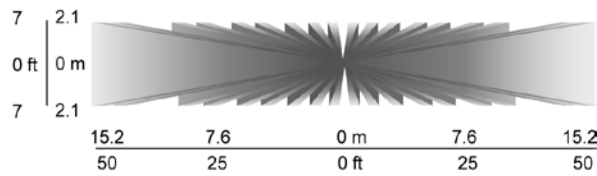
| Part Number | Description |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LRM235000 | Fixture-Mounted, High Bay, Aisle Focus PIR, Self Contained, 120/277V |
| LRM235500 | Fixture-Mounted, High Bay, Aisle Focus PIR, Self Contained, 347V |
| LRM236000 | Fixture-Mounted, High Bay, Aisle Focus PIR, Self Contained, Photocell, Low Temp, 120/277V |
| LRM236500 | Fixture-Mounted, High Bay, Aisle Focus PIR, Self Contained, Photocell, Low Temp, 347V |
| LRM236800 | Fixture-Mounted, High Bay, Aisle Focus PIR, Self Contained, 2 Pole, Photocell, Low Temp, 480V |
| Accessory | |
| LRM236900 | Optional Sensor Mounting Bracket - if the sensor's field of view is partially blocked by the fixture housing, this bracket may be used to lower the sensor down to a level where its view is not impaired. |

field of view

SIDE VIEW



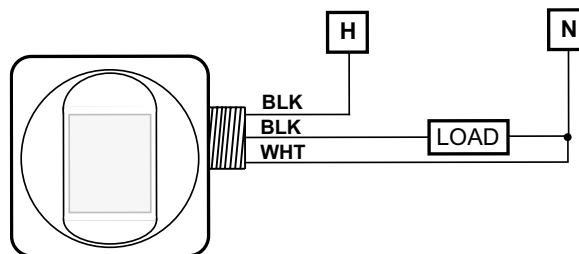
TOP VIEW



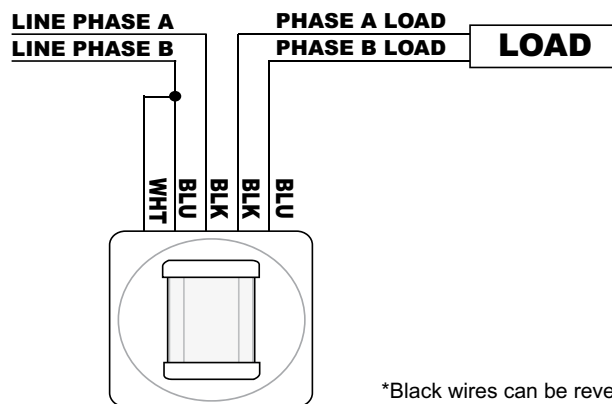
wiring diagrams

LRM2350
LRM2360

LRM2355
LRM2365
(black wires are replaced with red wires.)



LRM2368
(2 pole control)



*Black wires can be reversed

**Blue wires can be reversed



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776 South Green Street • Tupelo, MS 38804
p. 800.234.1890 • f. 662.841.5501 • www.daybrite.com
Canadian Division
189 Bullock Drive • Markham, Ontario L3P 1W4
p. 905.294.9570 • f. 905.294.9811

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