OccuSwitch Wireless

Wireless Multi-Sensor
LRM1760

Philips OccuSwitch Wireless control system is a simple, easy, and effortless way to create a more sustainable work environment.

This ceiling mount occupancy sensor with photocell sensing is part of the OccuSwitch Wireless Lighting Control family of products that provide automatic lighting control for energy management. The wireless feature adapts well to retrofit installations where pulling wires across existing ceilings is cost prohibitive.

The OccuSwitch Wireless multi-sensor can be installed with the other daylight regulation products to create a complete wireless lighting control system for a single space. Up to 16 devices (switches, dimmers, occupancy sensors and multi-sensors) can be linked to automatically control the lighting.

Features

- Passive Infrared (PIR) sensing technology coupled with high-tech logic delivers advanced occupancy detection.
- Unique daylight response curve adjustment provides higher (or lower) light levels during high intensity daylight periods.
- Micro controller based logic reduces false triggers to optimize energy savings and maintain lamp life.
- Self adaptive time delay—manual knob sets minimum time delay only, if longer time delay is needed, the sensor self adapts to improve performance.
- Robust wireless communication with ZigBee Pro 2.4 protocol at 2.4GHz.
- Integral photocell signals wall dimmer to maintain proper lighting levels for daylight harvesting.
- When linked to a wall dimmer, the photocell signals to hold back the lighting if adequate daylight is present.
- Easy to install retrofit sensor easily links to wall switch or dimmer.
- Meets energy codes device requirements: ANSI/ASHRAE/IESNA Standard 90.1-2010 & 189.1-2009, 2009 & 2012 IECC (International Energy Conservation Code), CEC Title 24-2010.
- Sleek low-profile design easily blends into any office or other professional setting.
- Designed for 10-year no-maintenance operation with a heavy duty long life Lithium-thionyl chloride battery.

Compatibility

- Compatible with Mark 10 Powerline and EssentiaLine Powerline ballasts.

Applications

- Classrooms, conference rooms, offices, restrooms (fan and lights), multi-media rooms, lounges, break rooms, lab spaces, storage areas, etc.

Job Information Device Type #: _____

Job Name: _____

Cat. No.: _____

Notes:

PHILIPS

OccuSwitch Wireless

Wireless Multi-Sensor (LRM1760)

Technical data*

Detection technology: Passive Infrared (PIR)

Intelligent delay timer: The switch-off delay minimum can be manually set between 1 and 30 minutes. Initial setting is automatically adjusted to the occupancy pattern, but never less then the manual setting.

Day light regulation: Photocell is designed to operate in a closed loop system. The photocell sees a combination of daylight and electric light. The system continuously adjusts the electric light to maintain the set light level.

Photo cell sensing range: 1FC to 150FC (10 to 1500 Lux)

Mounting height: Can be installed for up to 12' ceiling height.

Wireless network protocol: ZigBee Pro 2.4GHz
Universal license free band.

Wireless range:
Switch to sensor: 50' (17 m)—In office buildings
Switch to switch (same plane): 18' (6 m)
Switch to switch (line of sight): 50' (17 m)

Wireless compatibility: Multiple devices can be connected—Switches (LRA1721) Dimmers (LRD1730) Occupancy Sensors (LRM1743) Multi-Sensors (LRM1760) OSW Access Controller (OSWAC).

Operating voltage: 3.6V DC (Included)

Battery: Standard AA size 3.6V DC Lithium-thionyl chloride (Included) 10-year plus lifetime rating under normal operation.

Operating conditions: For Indoor use only. Temperature 41°F to 104°F (5°C to 40°C) Humidity 20% to 85%, (Non-condensing).

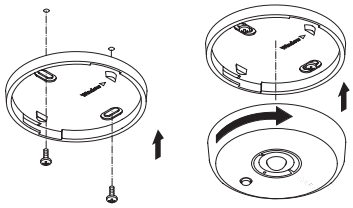
Regulatory compliance: UL, CSA, FCC, RoHS, California Title 24.

Physical dimensions:
Diameter x Depth: 3.3" x 0.98" (83 x 25 mm)
Weight: 18 oz. (0.5 kg)

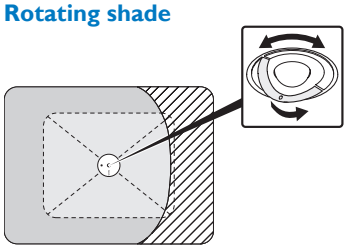
Colors: Ceiling off-white.

*Subject to change without notice.

Mounting



Rotating shade



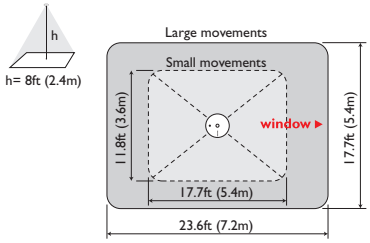
Detection area

Will vary based on ceiling height.
For a typical ceiling height of 8' (2.4 m):

Major motion 17.7' x 23.6' (5.40 m x 7.20 m)

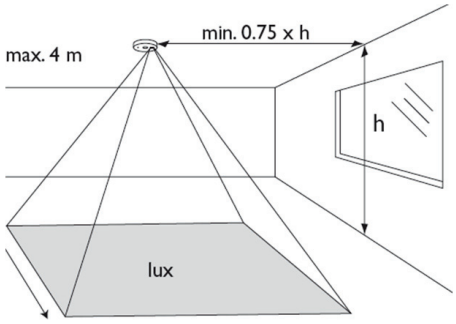
Minor motion 11.8' x 17.7' (3.60 m x 5.40 m)

Larger areas will require multiple sensors. Up to 16 devices can be linked for one space. The retractable sensor shield can be rotated to partially mask the sensor's field of view and prevent unwanted movement detection.



Photocell daylight harvesting area

Mount multi-sensor 1 to .75 times window height away from the window and where the occupancy sensor can see the space to detect movement.



Ordering information

Ordering Code	Description
LRM1760-00	OccuSwitch Wireless Occupancy and Light Level Sensor

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