

# OCCUSWITCH WIRELESS LRM1760

## Wireless Multi-Sensor

Philips OccuSwitch Wireless Control System is a simple, easy, and effortless way to create a more sustainable work environment



LR176000 Ceiling mount wireless occupancy and light level sensor

### Features

#### Easy-to-install retrofit

- Wireless controls means [no sensor wiring](#) needed, eliminating the task of opening the ceiling to install sensor.
- Integral photocell signals wall dimmer to maintain proper lighting levels for day light harvesting.
- When linked to wall switch the photocell signals to hold-back the lighting if adequate daylight is present.
- Sensor easily links to wall switch or dimmer.
- Up to 16 devices can be linked to make a single network.
- Meets Federal Energy Mandate. Title 24, ASHRAE 90.1 (2010) & 189.1, IECC.

#### Advance Occupancy sensing

- Proven 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 2.4 GHz.

#### Sleek Low Profile Design

- Styles low-profile design blends easily into any office or other professional setting. 3.3 Inch (84mm) diameter X 0.98 inch (25mm) thin.
- 10 year no-maintenance operation with a heavy duty long life 3.6 volt Lithium-thionyl chloride battery.

### Description

**Philips LRM1760 Ceiling mount Occupancy Sensor with Photocell sensing** is part of the OccuSwitch Wireless family of products that provide automatic lighting control for energy management and user comfort. The wireless feature adapts well to retrofit installation where pulling wires across existing ceilings is too expensive.

The OccuSwitch Wireless Multi-Sensor can be installed with the other Day Light Regulation products to create a complete wireless lighting control system for a single space. Up to 16 devices (Switches, Dimmers, Occupancy Sensors & Multi-Sensors) can be linked to automatically control the lighting.

### Applications

Classrooms • Conference rooms • Offices • Restrooms (fan & lights)  
Multimedia rooms • Lounges • Break Rooms • Storage areas, etc . . .

### Ordering Information

Philips Part No.	Description
LRM176000	OccuSwitch Wireless occupancy and light level sensor

Job Information	Device Type #: _____
Job Name:	_____
Cat. No.:	_____
Notes:	_____

**PHILIPS**

# OccuSWITCH WIRELESS LRM1760

## Wireless Multi-Sensor

### Technical Specification

**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 than 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:** 1 FC to 150 FC (10 to 1500 Lux)

**Mounting Height:** Can be installed for up to 12ft ceiling height

**Wireless Network Protocol:**

ZigBee Pro 2.4GHz Universal license free band

**Wireless Range:**

Switch to Sensor: 50ft (17m) - In office buildings.

Switch to Switch (same plane): 18ft (6m)

Switch to Switch (line of sight): 50ft (17m)

**Colors:** Ceiling Off-White

**Operating Voltage:** 3.6 volts 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 inches (83 x 25mm)

Weight: 18 oz. (0.5 kg)

**Wireless Compatibility:** -Multiple devices can be linked to make a complete wireless control network in a single space

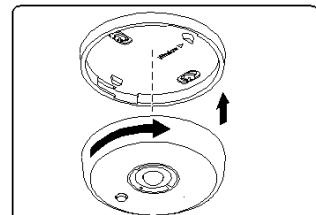
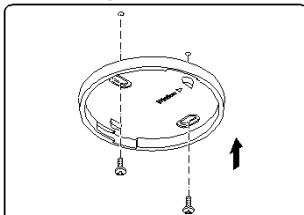
Switches (LRA1721)

Dimmers (LRD1730)

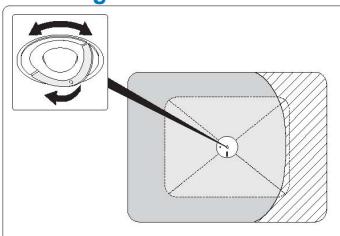
Occupancy Sensors (LRM1743)

Multi Sensors (LRM1769)

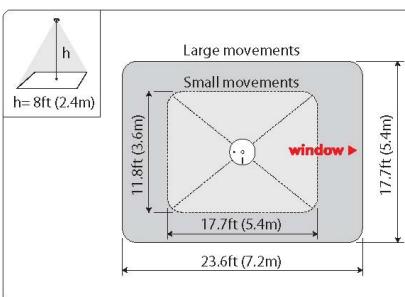
### Mounting



### Rotating Shield



Battery location and mini-  
mum timer set dial.



### Detection Area

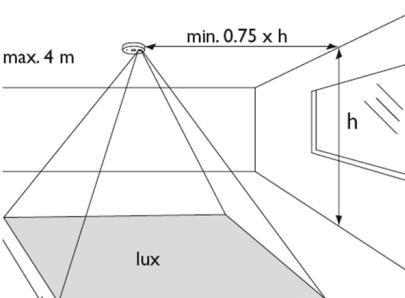
Will vary based on ceiling height.

For a typical ceiling height of 8 ft (2.4m):

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

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

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



### Photo Cell Day Light 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.

### Product Warranty

The Philips OccuSwitch™ Wireless products, when properly installed and under normal conditions of use (without overload, abuse or alteration), is warranted to you, the original user, for a period of two (2) years from the date of original purchase, to be free from defects in materials and workmanship. For further information, please contact Philips Lighting Electronics N.A. Customer Care at 1-800-372-3331 or [www.philips.com/advance](http://www.philips.com/advance).



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