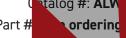


AirLink Wireless Mounted Sensors

talog #: ALW Part

The wireless moun occupancy or vacan passive infrared (PIR control lights via RF co dimming or switching of people moving within an the appropriate command or switching devices to tur automatically. They combin exceptional energy savings



ailab ease of installance

Applications









Features

- · All AirLink wireless controls are compatible with the wireless hub which enables a simple setup process using a standard web browser on any Wi-Fi enabled phone, tablet or computer. The hub also enables control and monitoring of all wireless devices
- · Wireless occupancy/vacancy sensor has 2 settings available: Auto-On/Auto-Off, and Manual-On/Auto-Off
- · Passive infrared motion detection with exclusive Lutron XCT Technology for fine motion detection
- 180° field of view model: Minor motion = 1500ft² (139.4m²) Major motion = $3000ft^2$ (278.7m²)
- 90° field of view model: Minor motion = 1225ft² (113.8m²) Major $motion = 2500ft^2 (232.3m^2)$
- · Hallway model with long, narrow field of view: Major motion = coverage of up to 150ft (45.7m)
- · Accessible test buttons make setup easy
- · Lens illuminates during test mode to verify ideal locations
- · Multiple sensors can be added for extended coverages
- Non-volatile memory (saved changes are stored during power loss)

· Adjustments for Auto-On, Timeout and Activity settings (defaults shown in **bold**):

Auto-On Settings:

- **Enabled:** Sensor turns lights ON and OFF automatically
- Disabled*: Lights to be turned ON manually from dimming or switching device; sensor turns lights OFF automatically

Timeout Options: 1 min**, 5 min, 15 min, 30 min

Activity Options: Low, Medium, High

- * 15 second grace period begins when the lights are automatically turned OFF. They automatically turn back ON in response to motion. This grace period is provided as a safety and convenience feature if the lights turn OFF while the room is still occupied. After 15 seconds, the lights must be manually turned ON
- ** Intended for high-activity, briefly occupied areas only
- 10-year battery life design

Certifications & Affiliations















Specifications

Regulatory Approvals

- · RoHS compliant
- · Lutron Quality Systems Registered to ISO 9001:2008
- · cULus® listed
- FCC, IC, COFETEL, ANATEL and SUTEL certified
- Meets CA (U.S.A.) Energy Commission Title 24 requirements (Vacancy model only)
- Complies with requirements for use in a compartment handling environmental air (plenum) per NEC® 2011 300.22(C)(3)
- UL Listed, UL 2043 Plenum Rated, NOM, and FCC Approved.
 Complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rule

Environmental

32°F to 104°F (0°C to 40°C), 0%-90%; indoor use only

Note: For environments where the air temperature may approach the temperature of the occupants, additional sensors will be needed (true for all exclusive PIR sensors)

Range

Distance between local load controls and sensor exceed 60ft (18m) line-of-sight or 30f (9m) through the controls.

Power / Load

- Operating voltage: 3V ===
- Operating current: 14 µA nominal
- Requires one CR 123 lithium battery

Tests

- · Sensor Coverage Test
 - Dedicated test button
 - Lens illuminates in response to notion in test mode
- · Wireless Communication Test
 - Dedicated test button
 - Turn associated loads on and off

Ordering Information

Sensors

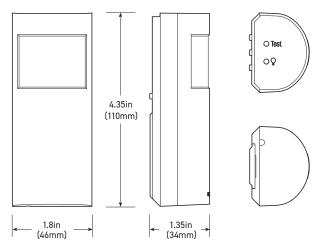
Part #	Catalog #	Description	Placement
632617	ALW OS WM	AirLink System — Wall-mounted Wireless Occupancy Sensor	Wall
632619	ALW VS WM	AirLink System — Wall-mounted Wireless Vacancy Sensor	Wall
624096	ALW OS CR	AirLink System — Corner-mounted Wireless Occupancy Sensor	Corner
632616	ALW VS CR	AirLink System — Corner-mounted Wireless Vacancy Sensor	Corner
632620	ALW OS HW	AirLink System — Hallway-mounted Wireless Occupancy Sensor	Hallway
632624	ALW VS HW	AirLink System — Hallway-mounted Wireless Vacancy Sensor	Hallway

Sensor Accessories

Part #	Catalog #	Description	Placement
632637	HW BKT	Flexible Mounting Armature	Wall, Corner, Hall
632635	WM WG	Wall-Mounted Wireguard (Accessory for Wall-Mount Sensor)	Wall
632634	CM WG	Corner-Mounted Wireguard (Accessory for Corner-Mount Sensor)	Corner
632638	HW WG	Hallway-Mounted Wireguard (Accessory for Hallway-Mount Sensor)	Hallway



Dimensions

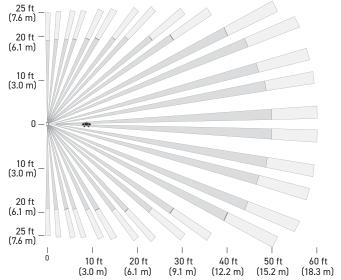




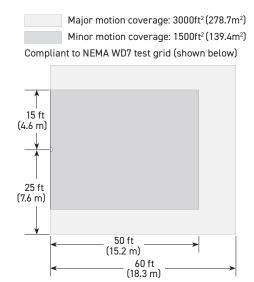
Coverage Diagrams

180° Wall-Mount Sensors: Available in occupcany (ALW OS WM) and vacancy (ALW VS WM)

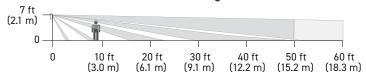
Horizontal Beam Diagram



Tested Coverage Area



Vertical Beam Diagram



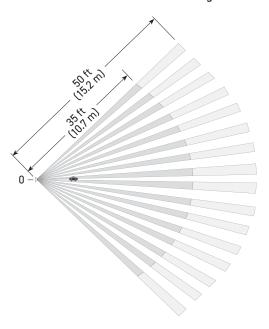
^{*}Sensor mounting shown at 7ft (2.1m). Mounting height should be between 6ft and 8ft (1.6m and 2.4m)



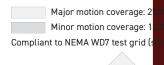
Coverage Diagrams (continued)

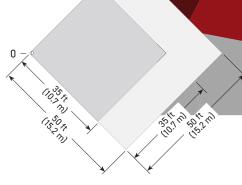
90° Corner-Mount Sensors: Available in occupcany (ALW OS CR) and vacancy (ALW VS CR)

Horizontal Beam Diagram

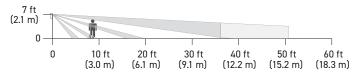


Tested Coverage Are





Vertical Beam Diagram



^{*}Sensor mounting shown at 7ft (2.1m). Mounting height should be between 6ft and 8ft (1.6m and 2.4m)



Coverage Diagrams (continued)

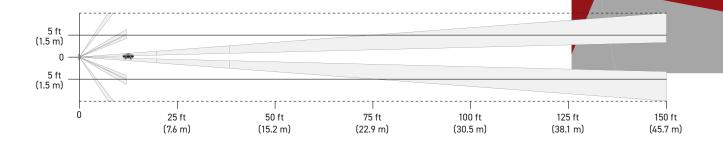
Hallway Sensors:

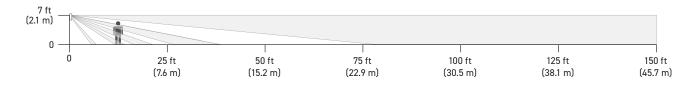
Available in occupcany (ALW OS HW) and vacancy (ALW VS HW)

- Designed to mount at the end of a hallway with a clear view down the length of a hall
- Detection at longer distances is best when motion occurs at right angles to the sensor
- Multiple sensors can be used to extend coverage

Maximum Recommended Hallway Length: Hall Width Hall Length

6ft (1.8m) or less 8ft (2.4m) or less 10ft (3.0m) or more





^{*}Sensor mounting shown at 7ft (2.1m). Mounting height should be between 6ft and 8ft (1.6m and 2.4m) and centered within hallway.



Installation Overview

- The mounting height of the sensor should be between 6ft and 8ft (1.6m and 2.4m)
- For smaller rooms less than 12ft × 12ft (3.7m × 3.7m), detection may be improved by mounting the sensor at 6ft (1.8m) from the floor
- The ability to detect motion requires that the sensor have line-of-sight of all room occupants. The sensor must have an unobstructed view of the room. DO NOT mount behind or near tall cabinets, shelves, hanging fixtures, etc. The sensor cannot detect occupants through glass objects such as patio or shower doors
- Hot objects and moving air currents can affect the performance of the sensor. To ensure proper operation, the sensor should be mounted at least 4ft (1.2m) away from light bulbs and HVAC vents
- The performance of the sensor depends on a temperature differential between the ambient room temperature and that of room occupants. Warmer rooms may reduce the sensor's ability to detect occupants
- Distance between local load controls and sensor should not exceed 60ft (18m) line-of-sight or 30ft (9m) through walls

Mounting

- 0° and hallway sensors mount directly to wall with mounting bracket (included). See Figure A
- 90° sensors mount directly in corner con wall offset away from corner with mounting bracket (in the B)
 - Temporary mounting is recommer to the property of coverage and wireless communications of the property of the sensor.
 - Temporary mounting: A 3MTM Company adhesive strip is provided for temporarily mountained diesting the sensor. This strip is designed for a mountained damage-free removal and is not reusable.
 - Permanent mounting: Mounting bracket, screws, and anchors are provided to mount sensor.
- The Flexible Mounting Armature, HW-KT (purchased separately), allows sensors to be mounted at greater heights on a ceiling, wall, or other flat surface.
 - The ball-and-clamp design expands the coverage area for standard wall, corner, or hall-mount sensors. See Figure C.
 - Common mounting areas: warehouse aisles, loading docks, long hallways.

Figure A

180° Wall-Mount Sensor (ALW VS/OS WM)

180° Hallway Sensor (ALW VS/OS HW)

Mounting Bracket

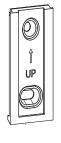




Figure B

90° Corner-Mount Sensor (ALW VS/OS CR)

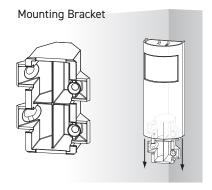
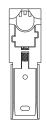
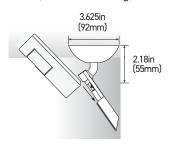


Figure C

Flexible Mounting Armature (sold separately: HW BKT)

Mounting Bracket (for wall or ceiling)

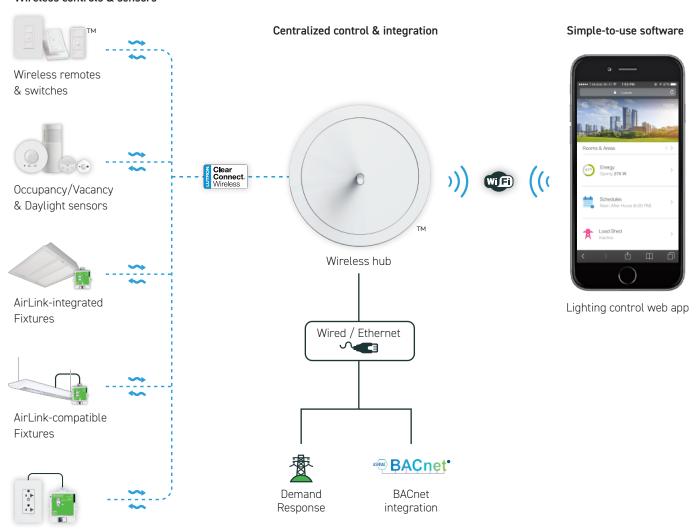






The AirLink System

Wireless controls & sensors



Contact LSI Controls

Plug load controllers





