

WaveLinx Pro

Insights Ceiling Sensor

(ECS-Z-M05-LV)

Installation Instructions

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Instructions d'installation

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Instrucciones de Instalación

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Instrucciones de Instalación

General Information

Overview

The WaveLinx Pro Insights ceiling sensor is an integral part of the WaveLinx Pro System and offers Occupant count, Passive Infra-Red (PIR) occupancy sensing, daylighting, temperature, and humidity capability. This sensor has Occupant count and Occupancy coverage patterns of up to 600 square feet, it is low voltage powered and is one of the smartest ceiling mounted sensors for multi-sensing in the market. The sensor operates on a wireless mesh network based on IEEE802.15.4 standards.

Plenum rating

The WaveLinx Pro Insights ceiling sensor components intended for installation above ceiling are plenum rated.

Specifications

Compatible only with Cooper Lighting Solutions Lighting WaveLinx Pro Wireless Systems.

Power	Input power: 120/277VAC Connections: Hot, Neutral
Indicators	LED functionality • Indication of wireless network connection • Indication of daylight hold-off
Environmental Specifications	Operating Temperature Range: -4°F - 131°F (-20°C - 55°C) Storage Temperature Range: -40°F - 158°F (-40°C - 70°C) Relative Humidity: 5% to 95% non-condensing, for indoor use only
Standards	Listings: UL/cUL Listed, FCC, IC UL244A - Appliance Control /Creepage and Clearance UL 508/NEMA 410 Industrial Control Equipment UL 2043 (Plenum installation) Meets latest ASHRAE Standard 90.1 requirements Meets latest IECC requirements Meets latest CEC Title 24 requirements
Wireless Specifications	Radio 2.4GHz Standard IEEE 802.15.4 Configuration type Router, End Point Range 75ft (25m) LOS 2 interior walls of standard construction Best practice: 100 devices per Wireless Area Controller
Mounting Height	8-12ft (2.4 - 3.7m)

WARNING

IMPORTANT: Read carefully before installing product. Retain for future reference.

Risk of Fire, Electrical Shock, Cuts or other Casualty Hazards: Installation and maintenance of this product must be performed by a qualified electrician. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and hazards involved. For continued protection against shock hazard replace all covers and guards after field wiring is completed.

Risk of Fire and Electric Shock: Before installing or performing any service, the power MUST be turned OFF. All installations should be in compliance with the National Electric Code and all state local codes.

Risk of Burn: Disconnect power and allow product to cool before handling or servicing.

Risk of Personal Injury: Due to sharp edges, handle with care.

Failure to comply with these instructions may result in death, serious bodily injury and property damage.

DISCLAIMER OF LIABILITY: Cooper Lighting Solutions assumes no liability for damages or losses of any kind that may arise from the improper, careless, or negligent installation, handling or use of this product.

NOTICE: Product may become damaged and/or unstable if not installed properly.

Note: Specifications and dimensions subject to change without notice.

ATTENTION Receiving Department: Note actual product description of any shortage or noticeable damage on delivery receipt. File claim for common carrier (LTL) directly with carrier. Claims for concealed damage must be filed within 15 days of delivery. All damaged material, complete with original packing must be retained.

NOTICE: Designed for indoor installation and use only. Dry location rated.

Do not mount near gas or electric heaters.

Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.

The use of accessory equipment is not recommended by Cooper Lighting Solutions as it may cause an unsafe condition.

Do not use this equipment for other than the intended use.

Warranties and Limitation of Liability

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English

WARNING

IMPORTANT: Lire attentivement avant d'installer le luminaire. À conserver pour consultation ultérieure.

Risque d'incendie, de décharge électrique, de coupure ou d'autres risques – L'installation et l'entretien de ce produit doivent être effectués par un électricien qualifié. Ce produit doit être installé conformément aux règles d'installation en vigueur par une personne familière avec la construction et le fonctionnement du produit ainsi qu'avec les risques inhérents. Pour une protection continue contre les décharges électriques, réinstallez tous les couvercles et protecteurs en place une fois le câblage terminé.

Risque d'incendie et de décharge électrique – Assurez-vous que l'alimentation électrique est HORS TENSION avant de commencer l'installation ou de tenter d'en faire l'entretien. Mettez l'alimentation électrique hors tension au niveau du fusible ou du disjoncteur. Toutes les installations doivent être conformes au Code national de l'électricité, ainsi qu'à tous les codes nationaux et locaux.

Risque de brûlure – Débranchez la source d'alimentation et laissez refroidir le luminaire avant de procéder à son entretien ou à sa manipulation.

Risque de blessures – À cause des arêtes tranchantes, manipulez ce produit avec précaution.

La désobéissance aux instructions suivantes représente un risque de blessures (y compris la mort) et de dommages matériels.

EXONÉRATION DE RESPONSABILITÉ : Cooper Lighting Solutions n'assume aucune responsabilité pour les dommages ou pertes de quelque nature que ce soit pouvant découler d'une installation, d'une manipulation ou d'une utilisation inappropriée, imprudente ou négligente de ce produit.

AVIS : Ce produit peut s'endommager ou devenir instable s'il n'est pas installé correctement.

Remarque : Les caractéristiques techniques et les dimensions peuvent changer sans préavis.

ATTENTION Service de la réception : Veuillez fournir une description de tout élément manquant ou de tout dommage constaté au bordereau de réception. Soumettez une réclamation de transporteur public (chargement partiel) directement auprès du transporteur. Les demandes pour les dommages cachés doivent être présentées dans les 15 jours suivants la livraison. Tout matériel endommagé doit être conservé avec tout l'emballage d'origine.

AVIS : Produit conçu uniquement pour une installation et un usage à l'intérieur.

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English

Multi Sensor Camera Orientation

All cameras oriented the **SAME** direction

conference room walls

All cameras oriented **DIFFERENT** directions

conference room walls

Single Sensor Setup

- The imaginary "+" made with the vent holes and LEDs should be approximately perpendicular with walls when possible.

Imaginary "+" made with the vent holes and LED

room walls

Single camera room **CORRECT** orientation

room walls

Single camera room **INCORRECT** orientation

Multi Sensor Setup

- The imaginary "+" made with the vent holes and LEDs should be approximately perpendicular with the walls when possible
- The lens as a reference point should be facing the same way in all those included in a multi-sensor setup
- Best practice for rectangular rooms: The camera side of the sensor should point at one of the "longer" walls of the room, and as previously mentioned, the two cameras should both point the same direction. See image below

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
www.cooperlighting.com
For service or technical assistance:
1-800-553-3879

Canada Sales
5925 McLaughlin Road
Mississauga, Ontario L5R 1B8
P: 905-501-3000
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Product availability, specifications, and compliances are subject to change without notice.

LED and Button Definitions

- One press and release will reboot the unit
- Press and release 6 times, for 5 seconds each, for a factory reset

Sensor Status LED Indication while in out-of-box mode

There are two LED indicators on this sensor, one positioned above the camera lens (People count sensor status LED or BLE LED), and one on the other side below the reset button (Zigbee LED).

On power up

- Zigbee LED blink momentarily in red and once after that it will blink green on detecting occupancy/motion.
- BLE LED/Occupant Count LED momentarily in Amber and will remain OFF until sensor is claimed to WAC and registered under license.

Reset button to enable pairing mode

On power up the sensor will not be in pairing mode, it requires two-time power cycle or IR remote command or press the reset button two times (equivalent to power cycle) to get the sensor to pairing mode to get join a WAC which is in pairing/commissioning mode.

Out-of-box functionality

As Insights CS is a ceiling sensor without own light fixture associated to it there is no user functionality before it is added to the WAC.

Troubleshooting

- There are no user-serviceable parts inside of the Sensor Interface Module. Please return the device to Cooper Lighting Solutions if service is required.
- The device is **ONLY** intended for use with WAC and Trellix releases of SR9 and beyond? (If the device is claimed to a WAC prior to SR9, it will not be represented correctly and Occupancy Counting will not work unless it is completely reset after the WAC is upgraded to SR9 or later.) **NEED to re-word this.**

If still having trouble, call Technical Services at 1-800-553-3879.

English

General Information

Vue d'ensemble

The WaveLinX Pro Insights ceiling sensor is an integral part of the WaveLinX Pro System and offers Occupant count, Passive Infra-Red (PIR) occupancy sensing, daylighting, temperature, and humidity capability. This sensor has Occupant count and Occupancy coverage patterns of up to 600 square feet, it is low voltage powered and is one of the smartest ceiling mounted sensors for multi-sensing in the market. The sensor operates on a wireless mesh network based on IEEE802.15.4 standards.

Caractéristiques nominales du plénum

The WaveLinX Pro Insights ceiling sensor components intended for installation above ceiling are plenum rated.

Spécifications

Compatible only with Cooper Lighting Solutions Lighting WaveLinX Pro Wireless Systems.

Alimentation	Puissance d'entrée : 120/277 VCA Connexions : Chargé, neutre
Indicateurs	Fonctionnalité DEL • Indication de la connexion au réseau sans fil • Indication de blocage de lumière du jour
Spécifications environnementales	Plage de température de fonctionnement : -20 °C à 55 °C (-4 °F à 131 °F) Plage de température de stockage : -40 °C à 70 °C (-40 °F à 158 °F) Humidité relative : 5 % à 95 % sans condensation, pour usage intérieur uniquement
Normes	Caractéristiques nominales : Homologué UL/cUL, FCC, IC UL244A – Commande d'appareil/sels grimpants et espace UL508/NEMA 410 – Équipement de commande industriel UL2043 (installation de plénum) Répond aux exigences de la norme 90.1 de la ASHRAE Répond aux exigences de la IECC Répond aux exigences du chapitre 24 de la CEC
Sans fil Spécifications	Radio 2.4 GHz Protocole IEEE 802.15.4 Configuration de type routeur, point limite Portée de perte de signal de 25 m (75 pi) 2 murs intérieurs d'une construction standard Meilleure pratique : 100 dispositifs par contrôleur de zone sans fil
Hauteur de montage	8-12ft (2.4 - 3.7m)

General Information

Descripción General

The WaveLinX Pro Insights ceiling sensor is an integral part of the WaveLinX Pro System and offers Occupant count, Passive Infra-Red (PIR) occupancy sensing, daylighting, temperature, and humidity capability. This sensor has Occupant count and Occupancy coverage patterns of up to 600 square feet, it is low voltage powered and is one of the smartest ceiling mounted sensors for multi-sensing in the market. The sensor operates on a wireless mesh network based on IEEE802.15.4 standards.

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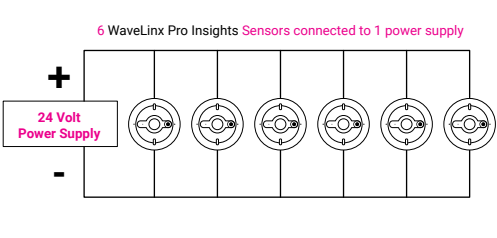
Especificaciones

Compatible only with Cooper Lighting Solutions Lighting WaveLinX Pro Wireless Systems.

Corriente	Corriente de entrada: 120/277 VCA Conexiones: Caliente, neutro
Indicadores	Funcionalidad LED • Indicación de conexión a la red inalámbrica • Indicación de retraso de la luz del día
Especificaciones ambientales	Rango de temperatura de funcionamiento: -4°F - 131°F (-20°C - 55°C) Rango de temperatura de almacenamiento: -40°F - 158°F (-40°C - 70°C) Humedad relativa: 5% a 95% sin condensación, solo para uso en interiores.
Estándares	Listados: Listado UL/cUL, FCC, IC UL244A - Control de dispositivo /líneas de fuga y distancia en el aire Equipo de control industrial UL 508/NEMA 410 UL 2043 (instalación plenum) Cumple con los requisitos del estándar 90.1 de ASHRAE Cumple con los requisitos de IECC Cumple con los requisitos del Título 24 de CEC
Dispositivo i nalmbrico Especificaciones	Radio 2,4GHz Estándar IEEE 802.15.4 Tipo de configuración Enrutador, Nodo final Alcance 75 pies (25 m) LOS 2 paredes interiores de construcción estándar. Mejores prácticas: 100 dispositivos por controlador de área inalámbrico
Altura de montaje	8-12ft (2.4 - 3.7m)

Wiring

The unit is powered by a 24VDC power supply. Please make sure the correct polarity is used for the power supply connections.

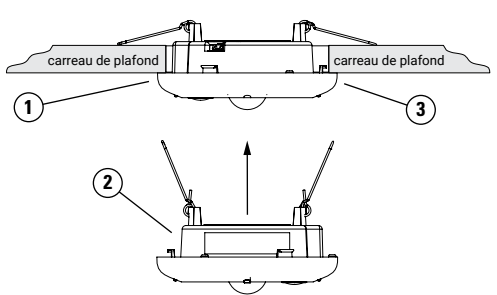


Insights Ceiling Sensor Installation

There are various methods that may be used to affix the Wavelinx Insights Sensor to a ceiling surface.

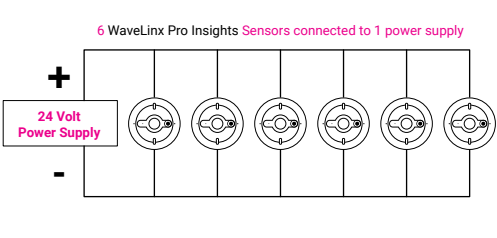
Tilemount installation

1. Cut 3.8" (95.3mm) diameter hole in ceiling tile.
2. Snap sensor body into ceiling trim.
3. Torsion spring clips secure the Insights Sensor to a recessed ceiling tile.



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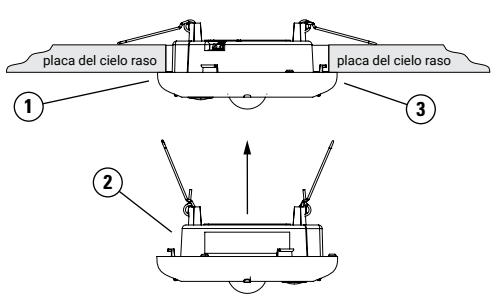


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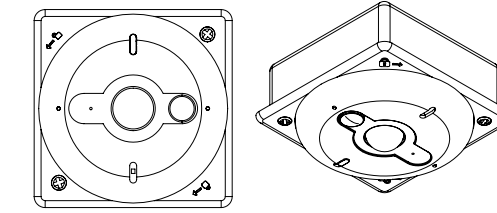
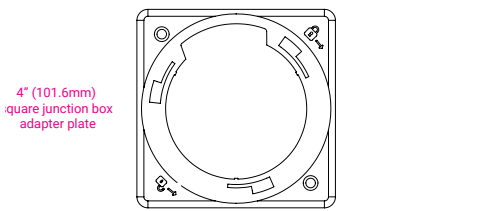
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Surface Mount / J-Box installation

1. Attach junction box adapter plate to 4" (101.6mm) square junction box. (screws not included)
2. Align sensor with keyhole pattern.
3. The Wireless Sensor may be installed directly to a ceiling surface via a 4" (101.6mm) square junction box adapter plate.



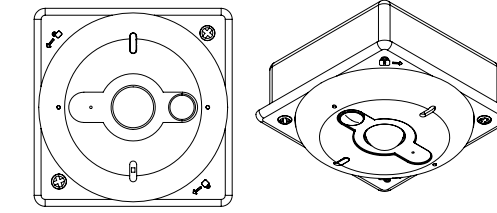
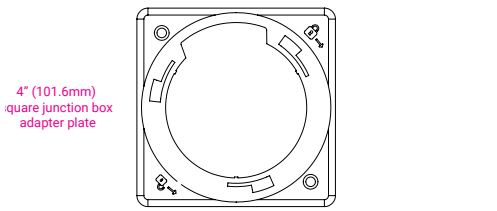
Installation Notes

Consult www.cooperlighting.com for the most up-to-date revision of the Insights Ceiling system design guide and install this product according to the guidelines described.

The Sensor is to be installed in dry, indoor locations ONLY. Do not install the Sensor in damp locations. Damp locations are defined as: interior locations subject to moderate degrees of moisture, such as some basements, some barns, some cold-storage warehouses, and the like, and partially protected locations under canopies, marquees, roofed open porches, and the like.

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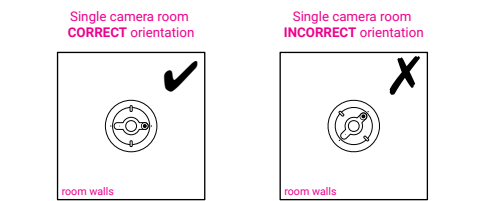
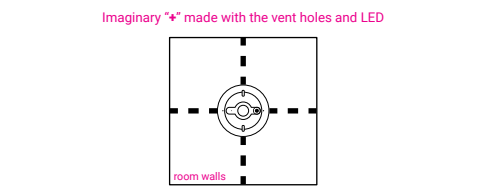
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Camera and Sensor Location Notes

The Sensor provides 360° coverage pattern. It is recommended to install the sensor more than 4ft (1.2m) away from air supply vents.

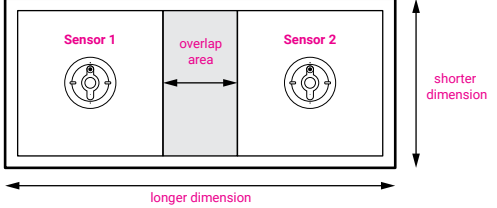
Single Sensor Setup

1. The imaginary "+" made with the vent holes and LEDs should be approximately perpendicular with walls when possible.



Multi Sensor Setup

1. The imaginary "+" made with the vent holes and LEDs should be approximately perpendicular with the walls when possible
2. The lens as a reference point should be facing the same way in all those included in a multi-sensor setup
3. Best practice for rectangular rooms: The camera side of the sensor should point at one of the "longer" walls of the room, and as previously mentioned, the two cameras should both point the same direction. See image below

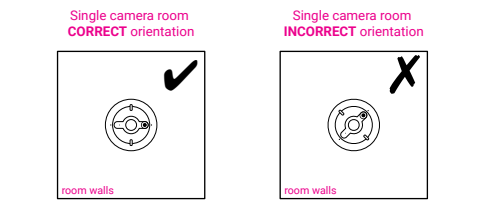
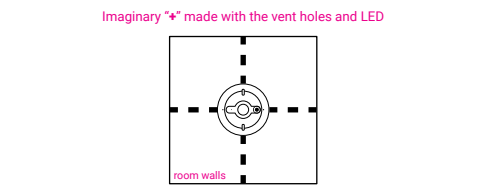


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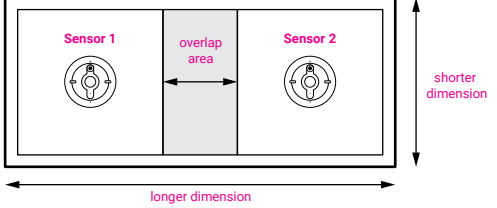
Single Sensor Setup

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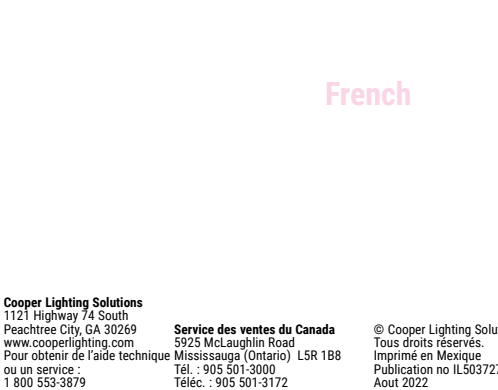
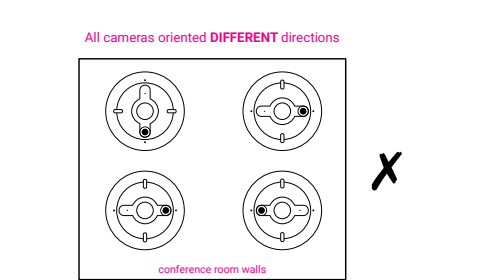
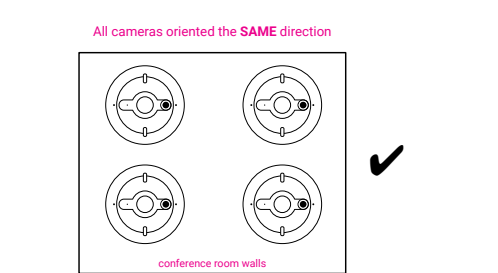


Multi Sensor Setup

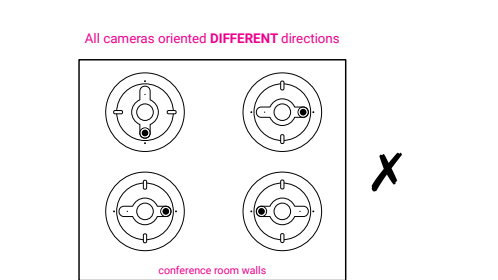
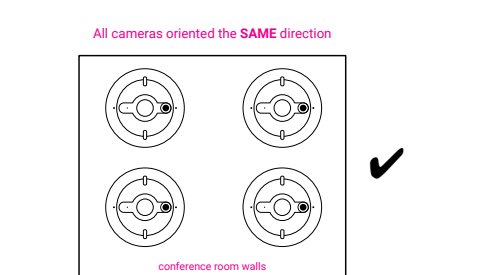
1. The imaginary "+" made with the vent holes and LEDs should be approximately perpendicular with the walls when possible
2. The lens as a reference point should be facing the same way in all those included in a multi-sensor setup
3. Best practice for rectangular rooms: The camera side of the sensor should point at one of the "longer" walls of the room, and as previously mentioned, the two cameras should both point the same direction. See image below



Multi Sensor Camera Orientation



Multi Sensor Camera Orientation



LED and Button Definitions

- One press and release will reboot the unit
- Press and release 6 times, for 5 seconds each, for a factory reset

Sensor Status LED Indication while in out-of-box mode

There are two LED indicators on this sensor, one positioned above the camera lens (People count sensor status LED or BLE LED), and one on the other side below the reset button (Zigbee LED).

On power up

- Zigbee LED blink momentarily in red and once after that it will blink green on detecting occupancy/motion.
- BLE LED/Occupant Count LED momentarily in Amber and will remain OFF until sensor is claimed to WAC and registered under license.

Reset button to enable pairing mode

On power up the sensor will not be in pairing mode, it requires two-time power cycle or IR remote command or press the reset button two times (equivalent to power cycle) to get the sensor to pairing mode to get join a WAC which is in pairing/commissioning mode.

Out-of-box functionality

As Insights CS is a ceiling sensor without own light fixture associated to it there is no user functionality before it is added to the WAC.

Troubleshooting

- There are no user-serviceable parts inside of the Sensor Interface Module. Please return the device to Cooper Lighting Solutions if service is required.
- The device is ONLY intended for use with WAC and Trellix releases of SR9 and beyond? (If the device is claimed to a WAC prior to SR9, it will not be represented correctly and Occupany Counting will not work unless it is completely reset after the WAC is upgraded to SR9 or later.)

If still having trouble, call Technical Services at 1-800-553-3879.



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