Cooper Lighting LLC OCS-L-P-D WaveLinx LITE Low Voltage Dual Tech Occupancy Ceiling Sensor Installation Guide

Contents

WaveLinx LITE

Low-Voltage Dual Tech Occupancy Ceiling Sensor (OCS-L-D)

Installation Instructions

www.cooperlighting.com

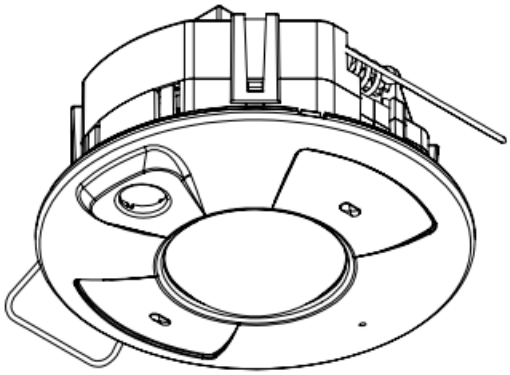
General Information

Overview

The Occupancy Ceiling Sensor with passive infrared, acoustic and photocell sensors that automatically control lights with independent operation or networked operation. These sensors detect the heat from people moving within the area to determine when the space is occupied. The sensor can also detect the daylight coming into the space from the windows to determine when the fixtures near the windows should be dimmed.

Supplied Parts

Designed for installation on standard ceiling tiles (recess mounted within the ceiling material) or surface mounted utilizing the supplied bracket and outer bezel in conjunction with octagonal mounting box.



WARNING

IMPORTANT: Read carefully before installing product. Retain for future reference.
Failure to comply with these instructions may result in serious injury (including death) and property damage.

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.

Before installing or performing any service, the power MUST be turned OFF at the branch circuit breaker. According to NEC 240-83(d), if the branch is used as the main switch for a fluorescent lighting circuit, the circuit breaker should be marked with "SWD". All installations should be in compliance with the National Electric Code and all state and local codes.

Risk of Fire and Electric Shock- Make certain power is OFF before starting installation or attempting any maintenance. Disconnect power at fuse or circuit breaker.

Risk of Burn- Disconnect power and allow fixture to cool before handling or servicing.

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

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/component may become damaged and/or unstable if not installed properly.

ATTENTION Receiving Department: Note actual fixture 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.

Note: Specifications and dimensions subject to change without notice.
NOTICE: All new wiring must be fully verified before applying power.
NOTICE: Designed for indoor installation and use only. 0-10V Dry location rated.
NOTICE: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Warranties and Limitation of Liability

Please refer to **www.cooperlighting.com/global/resources/legal** for our terms and conditions.

FCC Statement

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Innovation, Science and Economic Development Canada (ISED) licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment must be installed and operated with a minimum distance 20 cm between the radiator and your body.

IC Radiation Exposure Statement

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.
This equipment must be installed and operated with a minimum distance 20 cm between the radiator and your body

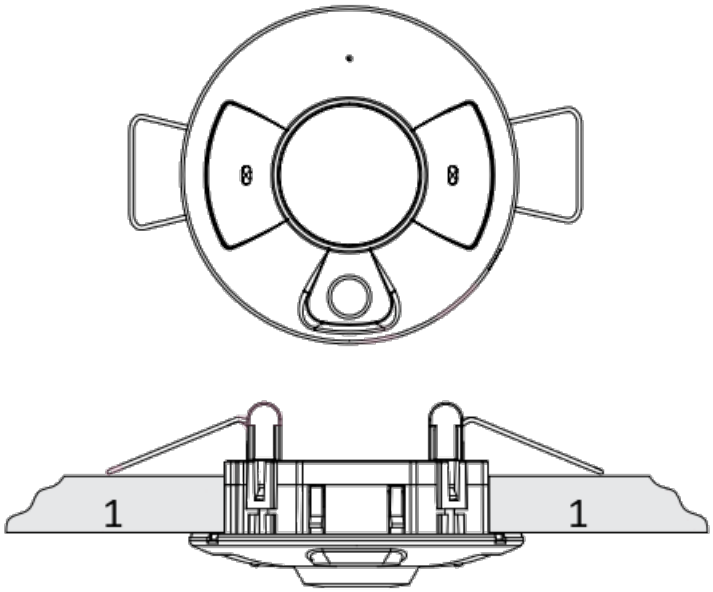
Specifications

Power	Low Voltage 12-24VDC
Mounting	4” octagon junction box or 3” hole in ceiling tile. The OCS-L requires a hole 3” [98mm] i n diameter. A holesaw is recommend to create this hole.
Dimension	3.6”H x 3.6”W x 1.4”D (91mm x 91mm x 36mm)
Coverage	600, 1200 or 2000 sq. ft. at 9’ ceiling height
Occupancy Detectio n Technology:	Passive Infrared (PIR) and Acoustic
Daylight Sensing Ra nge:	0 to 300 lux
Daylight Sensing Co verage:	Light input within 60° cone
Mobile App	Connects with WaveLinx LITE mobile app
Environmental Spec ifications	• Operating Temperature Range: 32°F to 104°F (0°C to 40°C) • Storage Temperature Range: -22°F to 158°F (-30°C to 70°C) • Relative Humidity: 5% to 85% non-condensing • For indoor use only
Standards	• Class 2 Input • FCC Part 15, Part C • Manufactured in an ISO 9001 certified factory • Meets ASHRAE 90.1 – 2019 requirements • Meets IECC – 2021 requirements • Meets Title 24 – 2019 requirements • RoHS

Ceiling Mount

1. Sensor is designed to be installed into ceiling tile or onto a 4” Octagon.
2. Connect the Occupancy sensor per the wiring digram below. Settings can be changed through the WaveLinx LITE Mobile App.

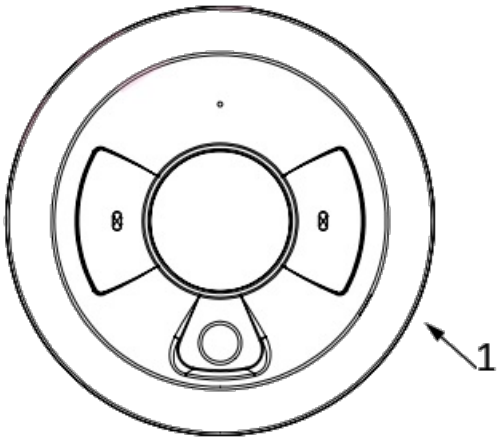
Tilemount



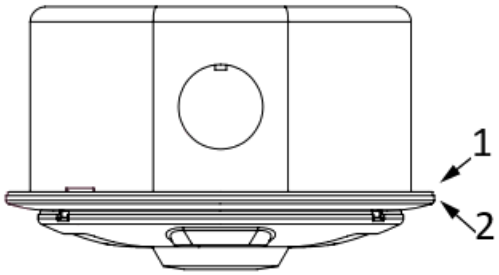
1. ceiling tile

J-Box

4” Octagon Junction Box with adapter plate and trim ring



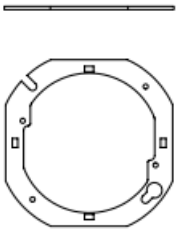
1. trim ring



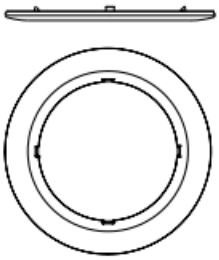
1. octagon box cover
2. octagon box adapter plate

Parts not assembled

octagon box cover

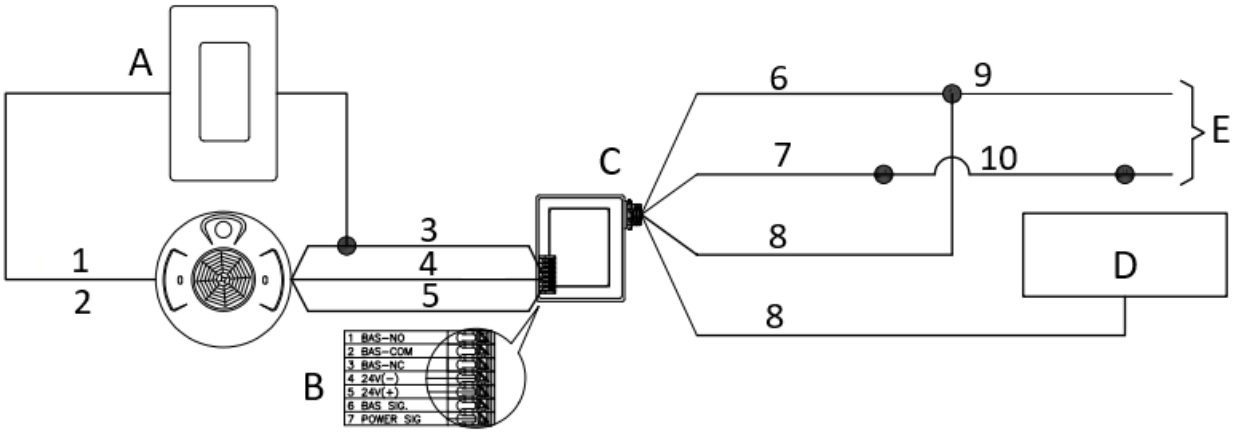


octagon box adapter plate



Wiring Diagram

Acoustic Dual Tech Ceiling Sensor with Wired Swich



A: GMDS-W
B: OCS-L-D-*
C: RSP-V-SW
D: LOAD
E: LINE

1. Brown
2. Switch Input
3. Black (GND)
4. Red (24V+)
5. Blue (Signal)
6. Black
7. White
8. Blue
9. 120 VAC Hot
10. Neutral

LED Definitions

State	Event	Blink Pattern
		Occ Sensor
Out of Box	Motion Detected	• PIR: Green for 500 ms; Blue for 500 ms; OFF for 2 s. • MIC: Green for 500 ms; Yellow for 500 ms, Blue for 500 ms; OFF for 1.5 s.
Connected	Motion Detected	• White for 500 ms; Blue for 500 ms; OFF for 2 s. • MIC: White for 500 ms; Yllow for 500 ms; Blue for 500 ms; OFF for 1.5 s.
Identify / Reverse Identify	Reverse Identification with WaveLinx Remote	Magenta for 1 s; OFF for 1 sec; Repeat for identify duration
Reset	Reset Button Pressed	• Button pressed <1 s: OFF If button is released before 1 s, no reset occurs • Button pressed >= 1 s: Blue for 500 ms; OFF for 500 ms; If button is released before 5 s, soft reset begins • Button pressed >=5 s: Yellow for 500 ms; OFF for 500 ms; If button is released before 10 s, factory reset begins • Button pressed > 10 s: OFF No reset occurs
Wallstation Input Button	Wallstation Input Pressed	This is for the button to control vacancy mode Cyan for 500 ms; OFF for 500 ms; No Repeat

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

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
F: 905-501-3172

Publication No. IB50365324
July 2024

Documents / Resources

	**Cooper Lighting LLC OCS-L-P-D WaveLinx LITE Low Voltage Dual Tech Occupancy Ceiling Sensor** [pdf] Installation Guide OCS-L-P-D, OCS-L-D, OCS-L-P-D WaveLinx LITE Low Voltage Dual Tech Occupancy Ceiling Sensor, OCS-L-P-D, WaveLinx LITE Low Voltage Dual Tech Occupancy, Ceiling Sensor LITE Low Voltage Dual Tech Occupancy, Ceiling Sensor Low Voltage Dual Tech Occupancy, Ceiling Sensor Voltage Dual Tech Occupancy, Ceiling Sensor Dual Tech Occupancy, Ceiling Sensor Tech Occupancy, Ceiling Sensor Occupancy, Ceiling Sensor, Sensor

References

- Commercial Lighting Company | Cooper Lighting Solutions
- User Manual