Project		Catalog #		Type	
Prepared by		Notes		Date	

WaveLinx Wired

OCS-D-P06 / OCS-D-P12

Occupancy Ceiling Sensor (Multi Sensor)

Typical Applications

Office · Education · Healthcare · Hospitality · Retail

Interactive Menu

- Ordering Information page 2
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- Connected Systems page 4
- Product Warranty

Product Certification

FC
Part 15
ECES-003

RoHS
COMPLIANT

Product Features

BAA
BUY AMERICAN ACT
AVAILABLE

WaveLinx Wired
Local Bus

Occupancy
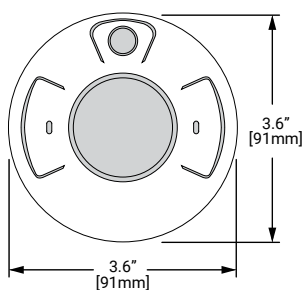Sensor

Daylighting
Control

Receptacle
Control

Top Product Features

- Daylight sensing and occupancy detection in a single device
- All device settings programmable through software
- Ultra low profile and small diameter
- Eliminates the need for external power packs
- Shares sensor data with third-party automation systems
- Options to meet Buy American and other domestic preference requirements
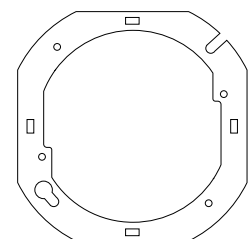
Dimensional Details

Top View

3.6"
[91mm]

3.6"
[91mm]

Side View

3.6"
[91mm]

1.4"
[36mm]
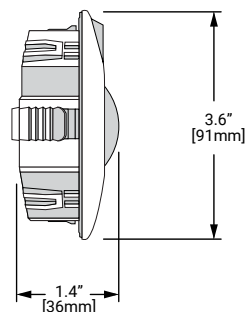
Junction Box Mounting Plate

3.7"
[94mm]

3.7"
[94mm]
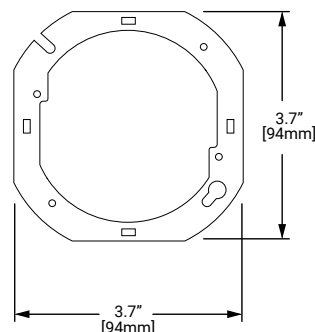
- The Multi-Sensor is designed to be installed into ceiling tile or onto a junction box.

additional
product diagrams

COOPER
Lighting Solutions

Order Information

Catalog Number

Domestic Preferences [1]	Catalog Number	Description
[Blank] =Standard **BAA** = Buy American Act	**OCS-D-P06**	600 sq. ft. Multi-Sensor for daylighting and occupancy
	OCS-D-P12	1200 sq. ft. Multi-Sensor for daylighting and occupancy
Notes		
(1) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.		

Product Specifications

Key Features
- Daylight sensing and occupancy detection technologies combined into a single device
- All device settings (timers, sensitivity and groups) programmable through software, no physical adjustments needed
- Ultra low profile and small diameter provides an aesthetically pleasing design
- Powered by the WaveLinx Wired local bus (via SCMD4)

Mechanical
Coverage: 600 or 1200 sq. ft. at 8' ceiling height

Occupancy Detection Technology: Passive Infrared (PIR)

Lens Type: Multi-level Fresnel 360°

Daylight Sensing Range: 0 to 400 lux

Daylight Sensing Coverage: Light input within 60° cone

Mounting: 4" octagon junction box or 3" hole in ceiling tile

Operating Environment: 32°F to 104°F (0°C to 40°C) - For indoor use only

Dimensions: 3.6"H x 3.6"W x 1.4"D (91mm x 91mm x 36mm)

Electrical
Status Indicator: LED

Input Voltage: 9.5 - 22.5 VDC supplied by communication bus

Wiring: 18 AWG stranded PTFE plenum rated

Control Specification:
- **Communication Interface:** Two wire communication bus
- **Current Draw:** 3.75mA

Standards: Manufactured in an ISO 9001 certified factory

Standards/Ratings
- Class 2 Input
- FCC Part 15/ECES-003
- Manufactured in an ISO 9001 certified factory
- Meets ASHRAE Standard 90.1 requirements
- Meets IECC 2015 requirements
- Meets CEC Title 24 requirements

Product Safety:
- IEC 60950-1
- UL 60950-1
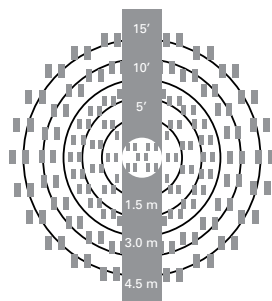- EN 60950-1
- CAN/CSA-C22.2 No. 60950-1

Environmental Regulations:
- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU
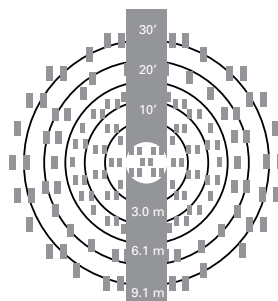
Warranty
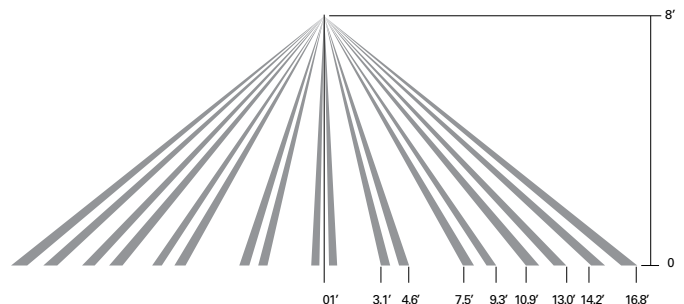Five year warranty standard

Coverage

Coverage Area 600 sq. ft.
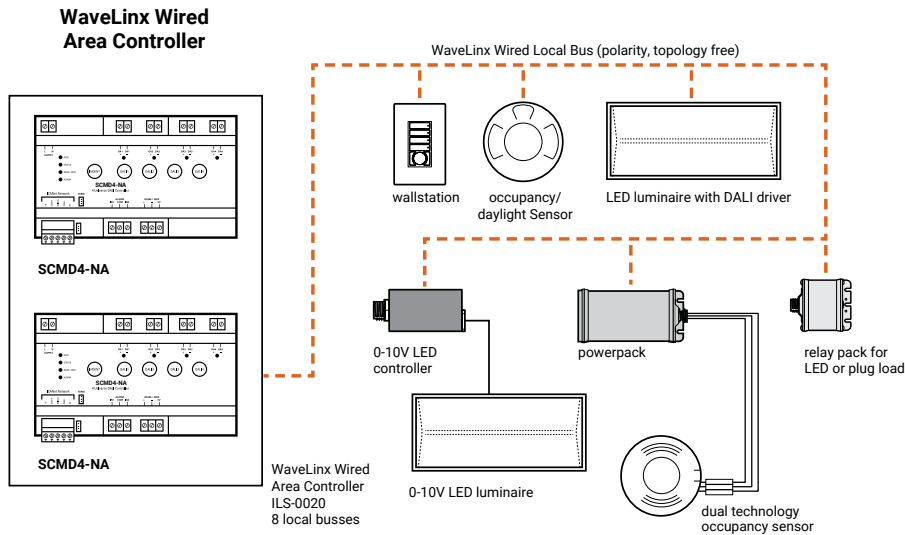

Coverage Area 1,200 sq. ft.
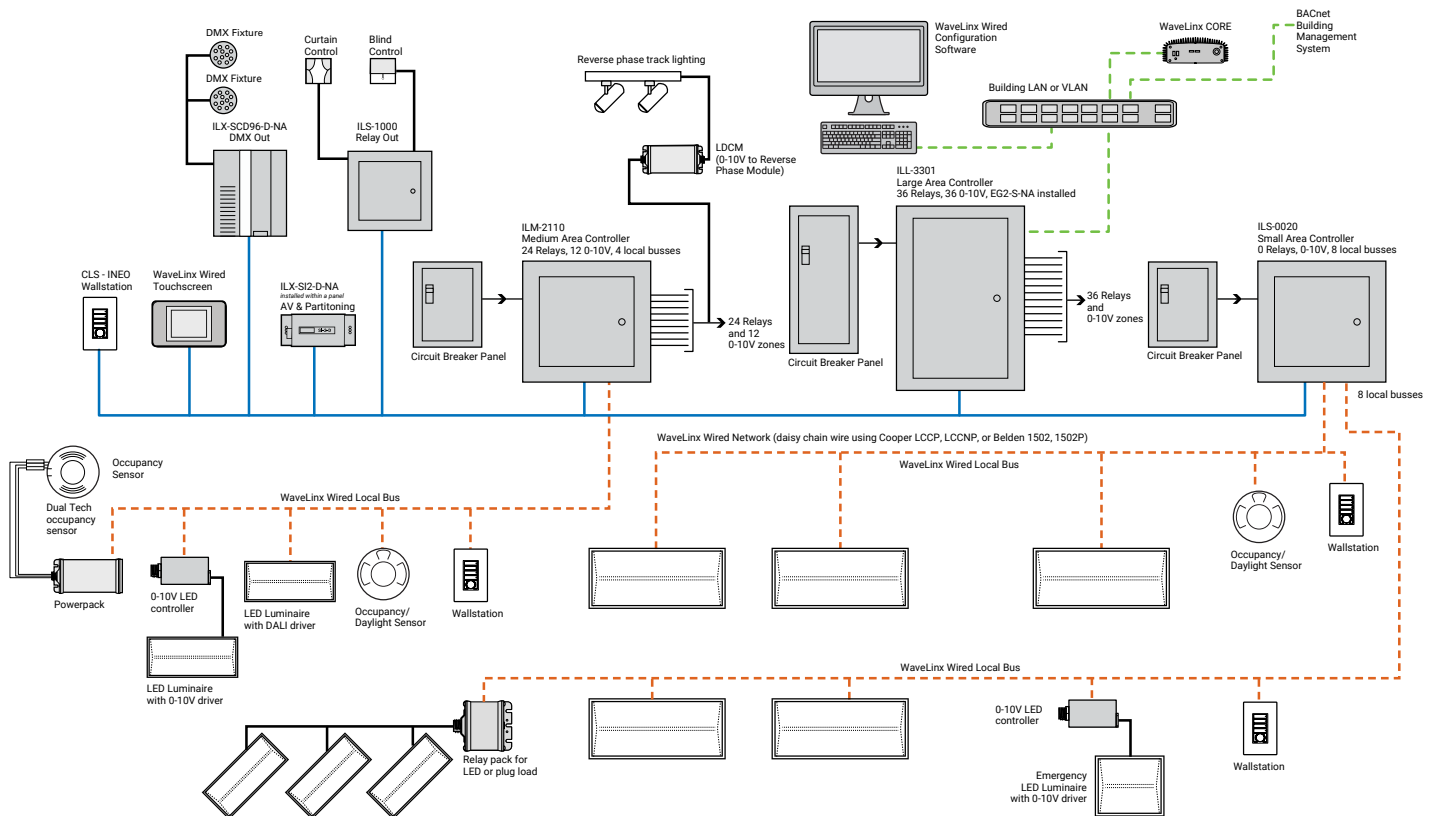

Overview

Cooper Lighting Solutions' Multi-Sensor combines daylight sensing and occupancy detection into a single device. The Multi-Sensor communicates over the WaveLinx Wired local bus and allows for all device settings and groups to be adjusted remotely.

System architecture

Simple WaveLinx Wired system

WaveLinx Wired Area Controller

SCMD4-NA

SCMD4-NA

WaveLinx Wired Area Controller ILS-0020 8 local busses

WaveLinx Wired Local Bus (polarity, topology free)

wallstation

occupancy/ daylight Sensor

LED luminaire with DALI driver

0-10V LED controller

0-10V LED luminaire

powerpack

relay pack for LED or plug load

dual technology occupancy sensor

Complete WaveLinx Wired system

DMX Fixture

DMX Fixture

Curtain Control

Blind Control

ILX-SCD96-D-NA DMX Out

ILS-1000 Relay Out

CLS - INEO Wallstation

WaveLinx Wired Touchscreen

ILX-SI2-D-NA *installed within a panel* AV & Partitoning

Reverse phase track lighting

LDCM (0-10V to Reverse Phase Module)

ILM-2110 Medium Area Controller 24 Relays, 12 0-10V, 4 local busses

Circuit Breaker Panel

24 Relays and 12 0-10V zones

WaveLinx Wired Configuration Software

Building LAN or VLAN

WaveLinx CORE

BACnet Building Management System

ILL-3301 Large Area Controller 36 Relays, 36 0-10V, EG2-S-NA installed

Circuit Breaker Panel

36 Relays and 0-10V zones

ILS-0020 Small Area Controller 0 Relays, 0-10V, 8 local busses

Circuit Breaker Panel

8 local busses

WaveLinx Wired Network (daisy chain wire using Cooper LCCP, LCCNP, or Belden 1502, 1502P)

Occupancy Sensor

Dual Tech occupancy sensor

Powerpack

0-10V LED controller

LED Luminaire with DALI driver

Occupancy/ Daylight Sensor

Wallstation

WaveLinx Wired Local Bus

LED Luminaire with 0-10V driver

Relay pack for LED or plug load

WaveLinx Wired Local Bus

Occupancy/ Daylight Sensor

Wallstation

WaveLinx Wired Local Bus

0-10V LED controller

Emergency LED Luminaire with 0-10V driver

Wallstation

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Lighting Solutions

Sample System Topology:

This diagram shows the main components of the WaveLinx wired and PRO wireless connected lighting system.

The **WaveLinx PRO wireless system** communicates using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each WaveLinx Area Controller (WAC) is required for power and data access to the building lighting network.

The **WaveLinx wired system** controls the devices using relay, 0-10V, DMX and the WaveLinx wired digital local bus. The WaveLinx wired system connects to the building LAN using the EG2 module. Each WaveLinx wired area controller communicates on the WaveLinx wired network.

WaveLinx Area Controllers (WAC) and WaveLinx Ethernet Gateways (EG2) communicate with WaveLinx CORE over the Ethernet network.

Please refer to the WaveLinx PRO Wireless Network and IT Guidance Technical Guide and WaveLinx Wired Network and IT Guidance Technical Guide for more information.
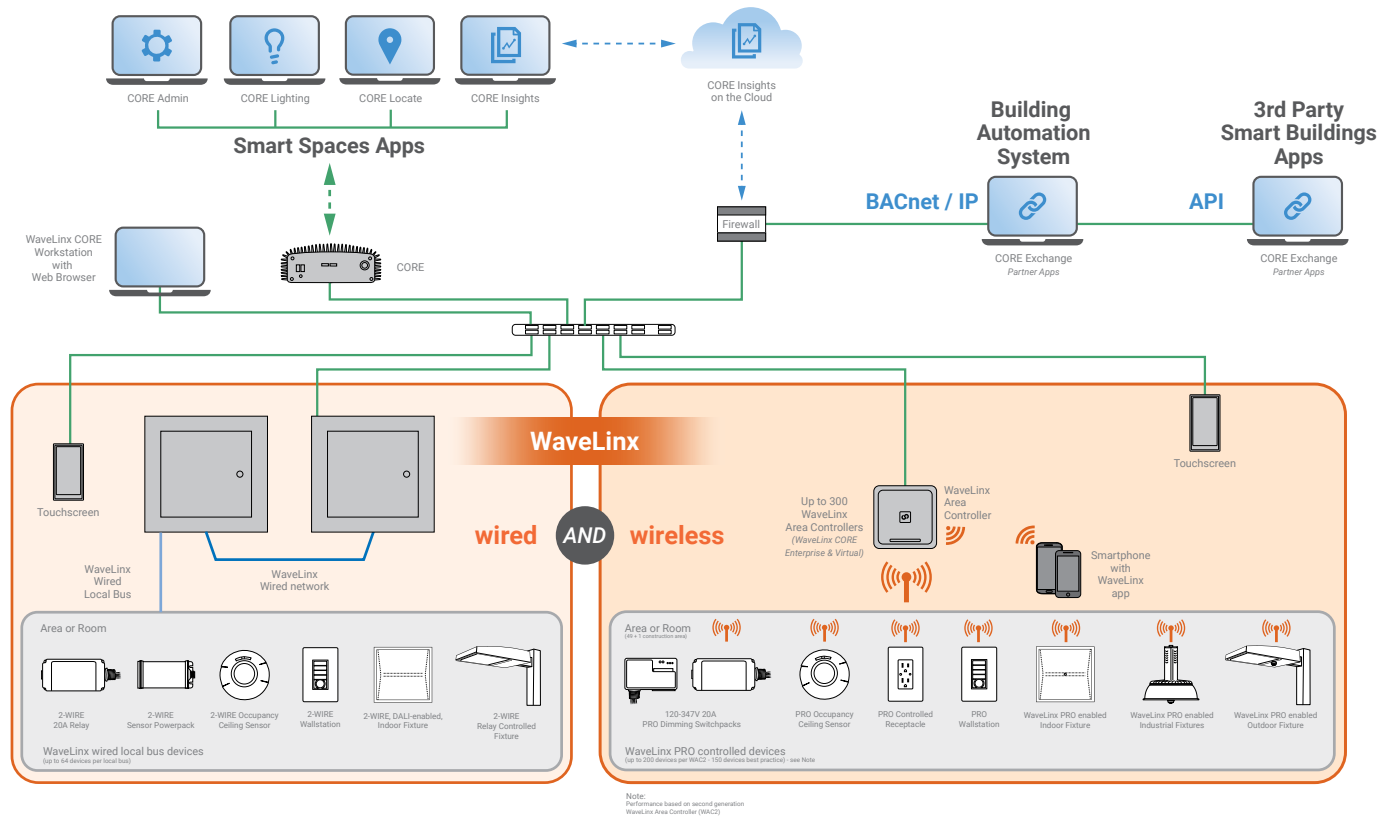
Control Systems
- WaveLinx
- WaveLinx wired
- VividTune