Project	Catalog #	Туре	
Prepared by	Notes	Date	



## PRO Industrial Sidecar Sensor Kit (SWPD\*-WH-SKIT)

Provides motion sensing, daylight dimming and wireless control for connected 0-10V luminaires (optional extension available)

Typical Applications Industrial • Manufacturing

### Product Certification\*



- Meets latest ASHRAE Standard 90.1 requirements
- Meets latest IECC requirements
- Meets latest CEC Title 24 requirements

### **Product Features**



### Compatibility



### **Overview**

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The WaveLinx PRO industrial high bay and low bay sensors are an integral part of the WaveLinx connected lighting system and offer passive infrared (PIR) occupancy and a photocell for closed loop daylighting. WaveLinx PRO industrial sensors offer installation heights up to 40 feet and have coverage patterns up to 5000 square feet (see sensor specifications - field of view). When part of WaveLinx PRO, the sensor operates on a wireless mesh network based on IEEE 802.15.4 standards.

The sensors offer simple tool-less integration into WaveLinx PRO industrial light fixtures equipped with the 4-pin Zhaga Book 18 compliant socket (including sidecar). Once installed, sensors receive power from their co-located light fixture with no batteries to replace. The sensor in combination with the WaveLinx Mobile application allows you to gain considerable energy savings from occupancy and daylight sensing lighting control. The WaveLinx Mobile application allows you to map the sensor to any area or control zone, select occupancy or vacancy, occupied and unoccupied light levels and set the hold time.

### **Product Features & Benefits**

- · Models suitable for High bay (up to 40ft / 45ft major motion) and Low bay (up to 15ft) applications
- Out of the box functionality: Occupied to Full, Unoccupied to 10%, daylighting disabled
- · Passive Infra-Red (PIR) motion sensor with coverage up to 5000 square feet
- · Integrated photocell for closed loop daylight harvesting
- · Software configurable settings with WaveLinx Mobile application
- · Sensor housing installs via 1/2" knockout and offers connection with standardized 0-10V drivers
- · IP66 rating for warehouse and manufacturing environments
- Energy calculations available through WaveLinx CORE



### **Order Information**

WaveLinx PRO Industrial Fixture Sidecar High Bay / Low Bay Sensors are accessories to the WaveLinx connected lighting (WCL) system and requires a WaveLinx Area Controller (WAC) for full functionality.

WaveLinx PRO Industrial Fixture Sidecar High Bay / Low Bay Sensors are used to provide occupancy and daylight dimming to spaces from the industrial light fixture. For energy code compliance, additional sensors may not be required.

#### Catalog Number

Catalog #	Description		
SWPD2-WH-SKIT	WaveLinx PRO Industrial Fixture Sidecar Low Bay Sensor, White, 7 - 15ft (2.1 - 4.5m)		
SWPD3-WH-SKIT	WaveLinx PRO Industrial Fixture Sidecar High Bay Sensor, White, 15 - 40ft (4.5 - 12.2m)		
WLX-EXT-SKIT	WaveLinx PRO Industrial Fixture Sidecar Extension (optional - for use when sensor position needs to be lowered)		
Notes For use with industrial light fixtures equipped with standard 0-10V drivers.	Notes When used as a component in the WaveLinx connected lighting system, WaveLinx PRO system design best practices (including WaveLinx Area Controller placement, line of sight distances, number of hops, etc.) must be followed. High mount models accommodate mounting height to 45ft (13.7m) for major motion (vehicles, fork trucks, etc.) - may not detect minor motion of people depending on conditions.		

#### **Required Accessories**

All WaveLinx connected lighting (WCL) system accessories require at least one WaveLinx Area Controller (WAC2) for communications. Ensure the bill of material includes one of the following components.

#### **Catalog Number**

Catalog Number	Description
WAC2-POE	WaveLinx Area Controller G2, PoE powered
WAC2-120	WaveLinx Area Controller G2 with 120VAC to PoE Injector

#### Optional Accessories

For connection to 120VAC outlets.

#### **Catalog Number**

WP0E2-120	120VAC to PoE Ir	T
Catalog Number		Description

### **Product Specifications**

#### Mechanical

Sidecar Size: 2.3" (58mm) SQ Height 2" (50mm)

- Sidecar Weight: 0.35 lbs (0.16 kg)
- Sensor Size: Base Diameter 3.2" (82mm) Height: 1.6" (41mm)

Sensor Weight: 0.20 lbs (0.10 kg) Environment:

- **Operating temperature:** -40°F to 131°F (-40°C to 55°C)
- Sensor passive infrared (PIR) performance may become exceedingly sensitive below -4°F (-20°C)
- Storage temperature: -40°F to 158°F (-40°C to 70°C)
- Default behavior intended for indoor use only

Mounting: Fixture mount

Mounting Height: High bay up to 40ft (12m) and Low bay up to15ft (5m) Color: White (sensor and control module)

Housing: UV stabilized plastic

#### Ingress protection: IP66

Light Sensor Detector Shields: Field configured shield included

#### Daylighting Installation:

- Ensure that sensor is not looking directly at artificial light
   Ensure that sensor is not obstructed
- Ensure that sensor is not obstructed
   Use configurable lens mask for desired directionality

#### Electrical

- 120/277VAC incoming and switched power
- 20mA 0-10V sink (typical 10 drivers MAX)
- · 6 amp LED loads

#### Software Specifications

- Any number of sensors can be mapped to any number of zones
- Mobile app configuration for Occupancy/Vacancy
- · Remote Hold Time settings fully configurable via mobile app
- Mobile app configuration of Occupied and Unoccupied light levels
- · Energy calculations available through WaveLinx CORE

#### Wireless Specifications Radio: 2.4GHz

Radio: 2.4GHz Standard: IEEE 802.15.4 Transmitter Power: + 8dBm Range: Sensor to sensor; 160ft (49m) LOS (best practice)

#### Standards/Ratings\*

- cULus Listed Energy Management Equipment (UL916)
- FCC Part 15/ECES-003
- RoHS
- · Meets latest ASHRAE Standard 90.1 requirements
- Meets latest IECC requirements
- Meets latest CEC Title 24 requirements

#### Warranty

• Five year warranty standard

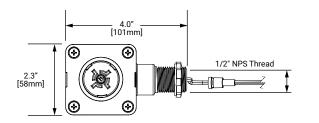


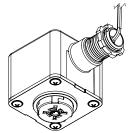
## **PRO Industrial Sidecar Sensor Kit**

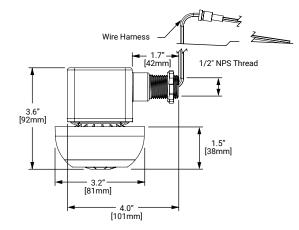
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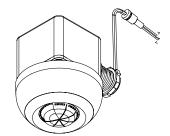
#### **Mounting Height Dimensional Details** ₹ /\_\_\_\_ ≠D⊃⇒ Wire Harness 4 40' [12.2m] ⊷ 1.7" → [42mm] 1/2" NPS Thread 7.3" [185mm] ŧ 3.6" [92mm] MAAR AN 15' [4.6m] MAA ANN 1.5" [38mm] Ð à — 3.2"— [81mm] — 6.5" — [165mm] — 4.0" — [101mm]

### Additional Dimensional Details - Industrial Sidecar Sensor Kit



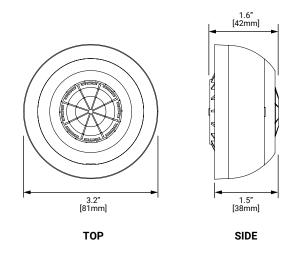




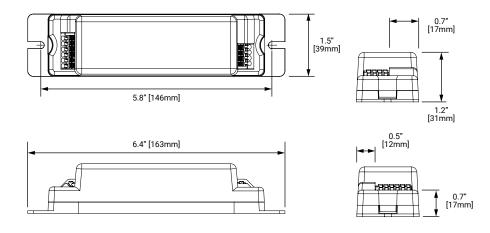




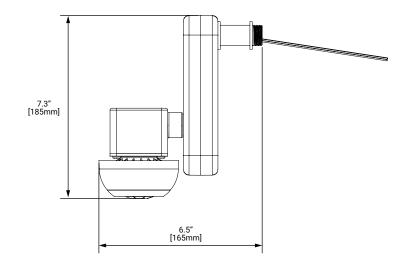
### **Additional Dimensional Details - Sensor**



### **Additional Dimensional Details - Control module**

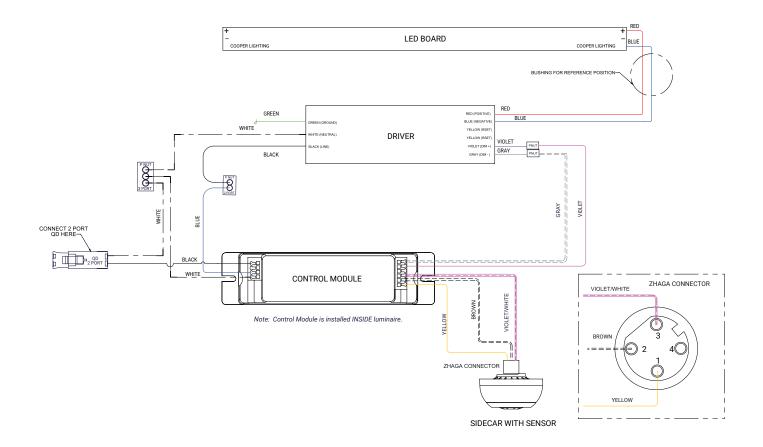


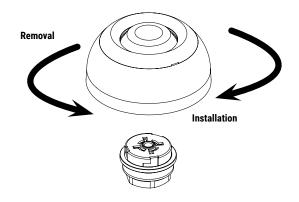
### **Additional Dimensional Details - Optional Sidecar Extension**





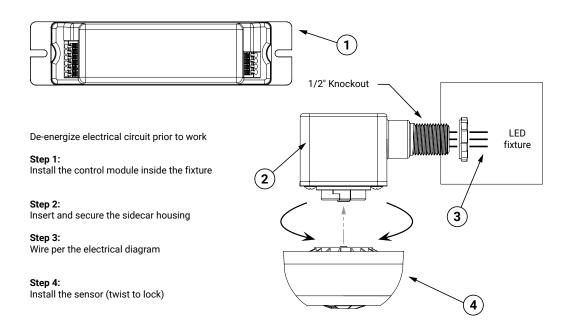
### **Wiring Diagrams**





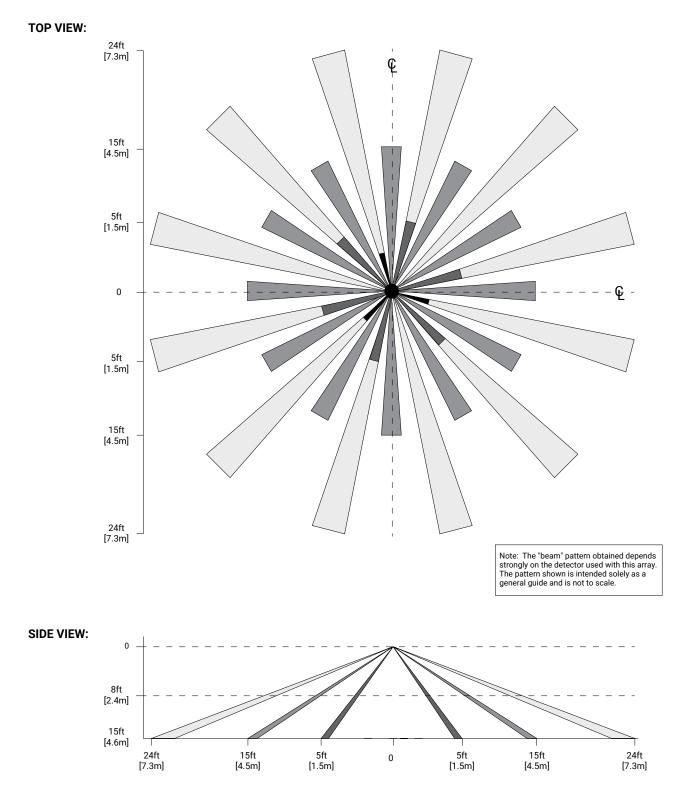


### **Fixture Installation**





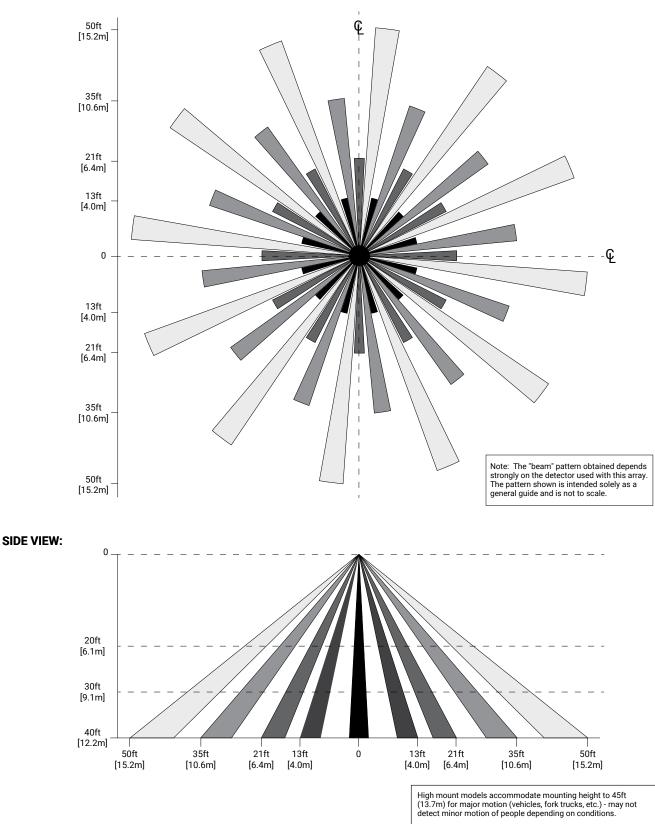
### Field of View - Low Bay





### Field of View - High Bay







## **PRO Industrial Sidecar Sensor Kit**

View

WaveLinx Network and IT Guidance

**Technical Guide** 

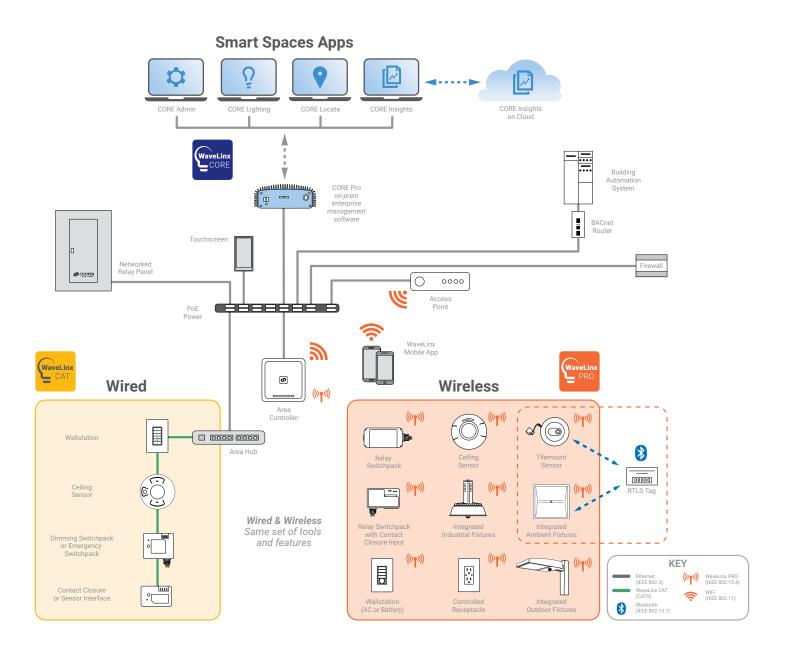
### System Diagram:

This diagram shows the main components of the WaveLinx connected lighting system with CAT and PRO devices.

The PRO devices communicate 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 CAT devices communicate over the category 5 based communication bus and control the light fixtures using a relay (on/off) and 0-10V output (dim/raise).

WaveLinx Area Controllers (WAC) communicate with WaveLinx CORE Apps over the Ethernet network.







Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com © 2025 Cooper Lighting Solutions All Rights Reserved. Specifications and dimensions subject to change without notice.