

Project		Catalog #		Type	
Prepared by		Notes		Date	



## WaveLinx Wired

FLT-SP-MV-DC2, FLT-SP-MV-DC1, FLT-SP-240-DC2,  
FLT-SP-240-DC1, FLT-SP-347-DC2, FLT-SP-347-DC1

### Sensor Powerpack

#### Typical Applications

Office • Education • Healthcare • Hospitality • Retail •  
Industrial • Manufacturing • Outdoor

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- Product Warranty

#### Product Certification



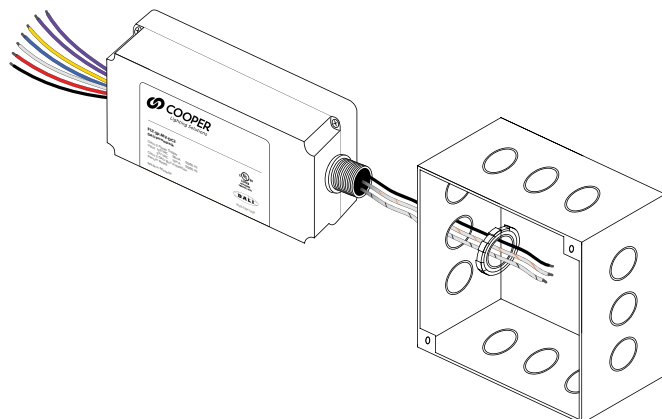
#### Product Features



#### Top Product Features

- Supports up to five (5) occupancy/vacancy
- Plenum rated
- Device identification buzzer
- Integrated with Greengate sensors

#### Junction Box Mounting



additional product diagrams

**Order Information:** This is an accessory for the WaveLinx Wired. When ordering, specify the Powerpack as a separate system accessory.

The Sensor Powerpack is compatible with OAC, VAC and OAWC Greengate sensor that include the -R option.

#### Catalog Number

Catalog Number	Description	Input Voltage	Number of Sensors
FLT-SP-MV-DC2	Sensor Powerpack 120/277V - class 2 installation	120/277 VAC	5
FLT-SP-MV-DC1	Sensor Powerpack 120/277V - class 1 installation	120/277 VAC	5
FLT-SP-240-DC2	Sensor Powerpack 240V - class 2 installation	240 VAC	5
FLT-SP-240-DC1	Sensor Powerpack 240V - class 1 installation	240 VAC	5
FLT-SP-347-DC2	Sensor Powerpack 347V - class 2 installation	347 VAC	5
FLT-SP-347-DC1	Sensor Powerpack 347V - class 1 installation	347 VAC	5

## Sensor Compatibility and Sensor Setup

The following Greengate sensors will have their LED blink when the Sensor Powerpack that powers the sensors is in Commissioning Mode.

Please refer to the Greengate sensor installation instructions for sensor setup.

**WARNING:** Do not enable the "Zero Time Delay" DIP Switch on the sensor.

Wall Mount Occupancy Sensors	Ceiling Mount Occupancy Sensors
OAWC-DT-120W-R	OAC-P-0500-R
OAWC-P-120W-R	OAC-P-1500-R
OAWC-P-009L-H-R	OAC-U-0501-R
	OAC-U-1000-R
	OAC-U-2000-R
	OAC-DT-0501-R
	OAC-DT-1000-R
	OAC-DT-2000-R

Note: The Sensor Powerpack can power other types of low voltage sensors. However, to take advantage of the Sensor Powerpack's built-in commissioning mode, it is highly recommended to use the Sensor Powerpack with the above Greengate sensor models.

Note: Please refer to the individual Greengate specification sheets for more information on the capabilities of these occupancy sensors.

## Product Specifications

### Key Features

- **Supports up to five (5) occupancy sensors** – Reduces the cost of connecting low voltage PIR, ultrasonic and dual tech sensors to WaveLinx Wired by 90%. Five occupancy sensors can be grouped together to provide a large coverage area with a single address being shared for all five sensors.
- **Plenum rated** – Eliminates the need for a junction box when installed in a plenum-rated area, i.e. areas where air handling equipment is present.
- **Device identification buzzer** – Reduces the time to locate a Sensor Powerpack installed in a ceiling thanks to the buzzer sound if troubleshooting is required.
- **Integrated with Greengate sensors** – Greengate sensors connected to the Sensor Powerpack will blink in commissioning mode allowing installers to easily identify sensors connected to a specific Sensor Powerpack.

### Mechanical

**Dimensions:** 1.7"H x 2.6"W x 6.1"L (43.2mm x 66mm x 155mm)

#### Mounting:

- Mounts to the side of a 4" square box via ½" knockout

**Housing:** Medium impact injection molded housing. ABS resin with 5VA flame rating. Plenum rated for external junction box mounting with Teflon coated leads.

#### Environment:

- **Operating Temperature:** 32° F to 104° F (0° C to 40° C). For indoor use only
- **Operating Humidity:** 10% to 90% RH (non-condensing)
- **Storage Temperature:** 32° F to 104° F (0° C to 40° C)

### Control Specification:

- **Communication Interface:** WaveLinx Wired Local Bus (via SCMD4)
- **Current Draw:** 2mA per device (max)

**Output:** 15 VDC, 125mA to operate up to five Greengate sensors

### Electrical

**Input Voltage :** 120/277 VAC, 240 VAC, or 347 VAC +/- 10%

**Input Frequency:** 50/60 Hz

### Standards/Ratings

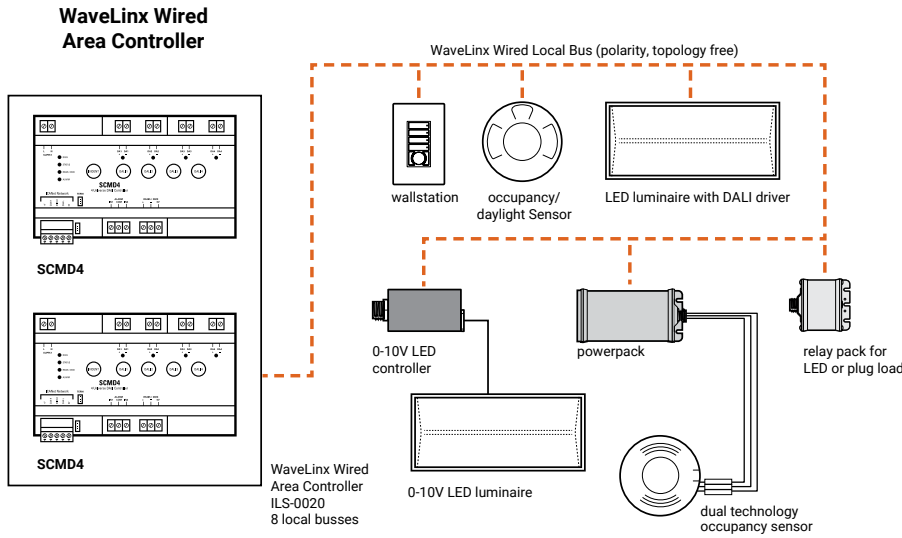
- cULus Listed - Energy Management Equipment (UL916)
- Manufactured in an ISO 9001 certified factory
- Meets ASHRAE Standard 90.1 requirements
- Meets IECC 2015 requirements
- Meets CEC Title 24 requirements

### Warranty

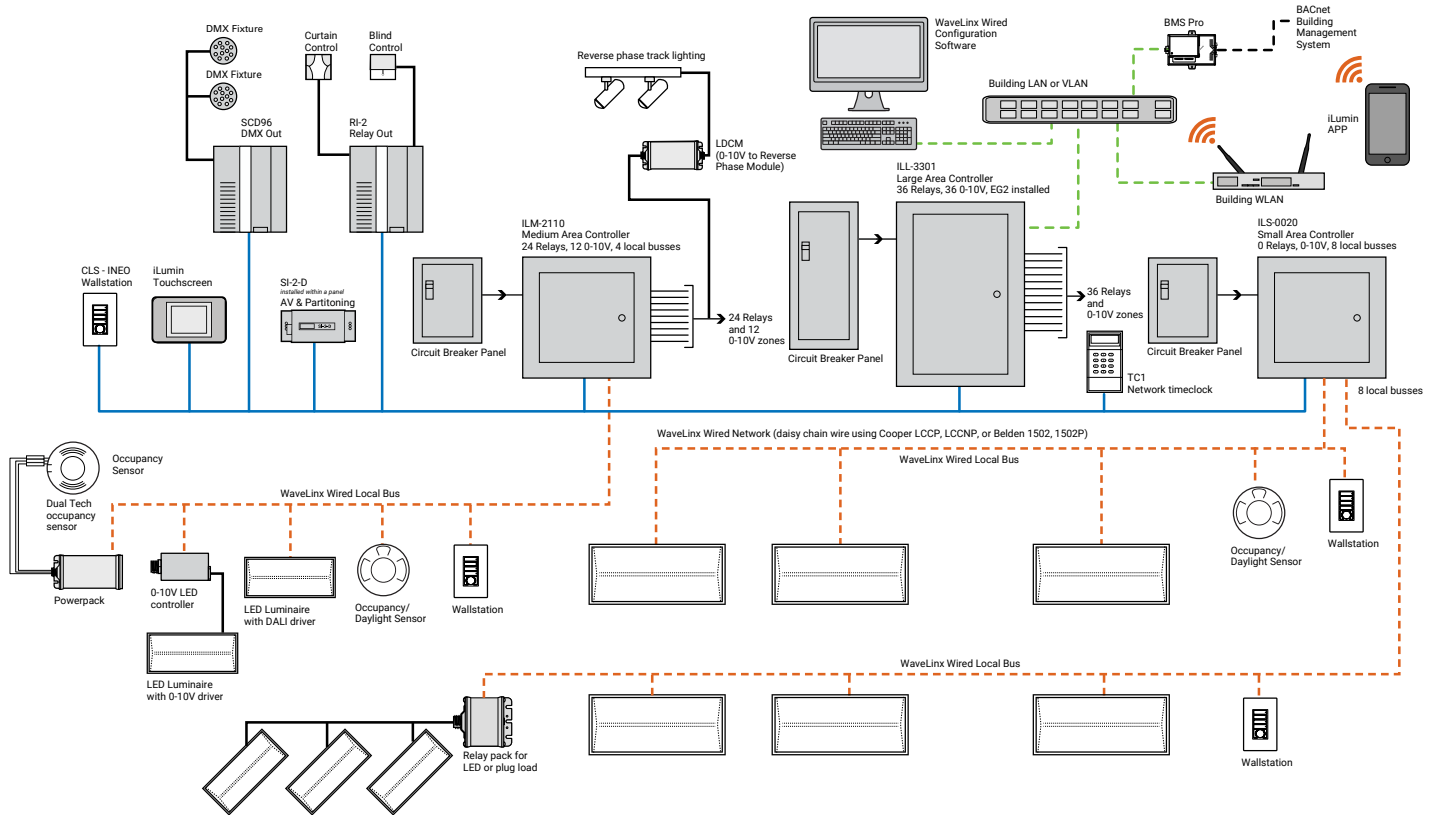
Five year warranty standard

## System architecture

Simple WaveLinx Wired system



## Complete WaveLinx Wired system

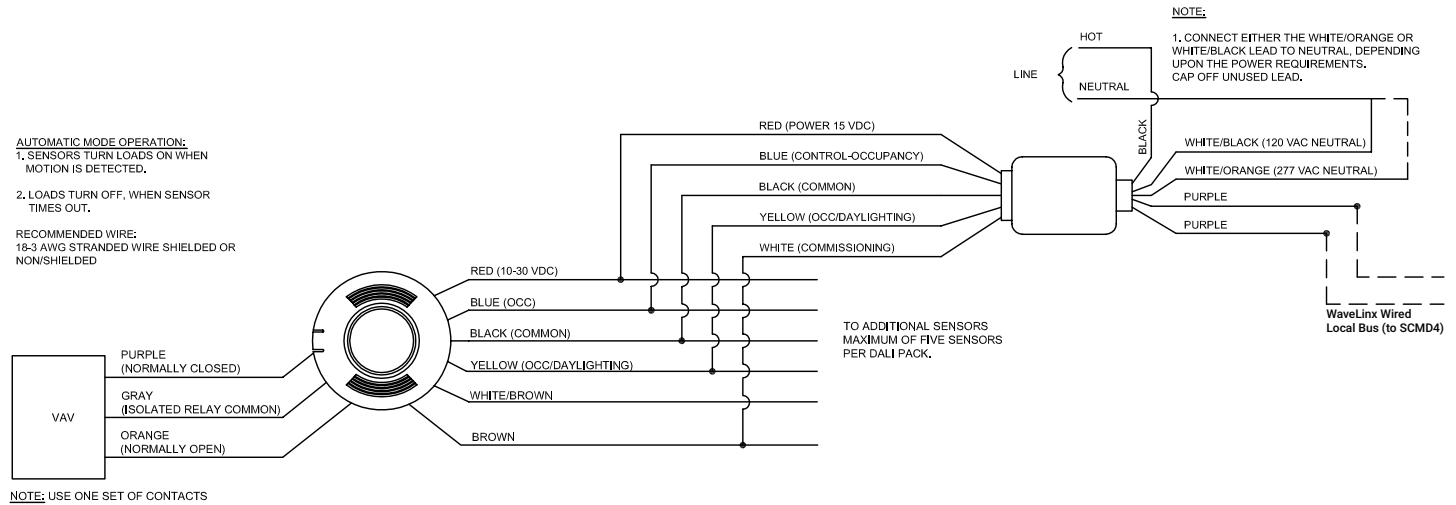


## Wiring Diagram

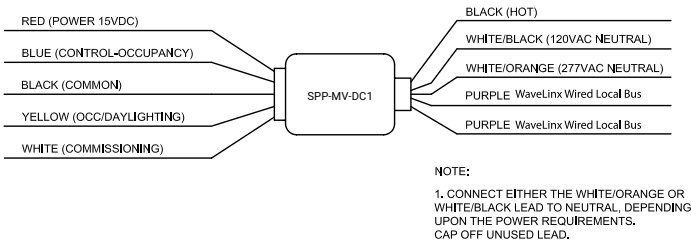
The line voltage section of the Sensor Powerpack is to be connected to a 120/277 VAC or 240 VAC or 347 VAC 20 amp branch circuit to provide unit power. The Powerpack provides a 15V output required to power the low voltage sensors.

The low voltage section of the Sensor Powerpack is to be connected to a junction box using the accompanying the NPT adapter and the lock nut.

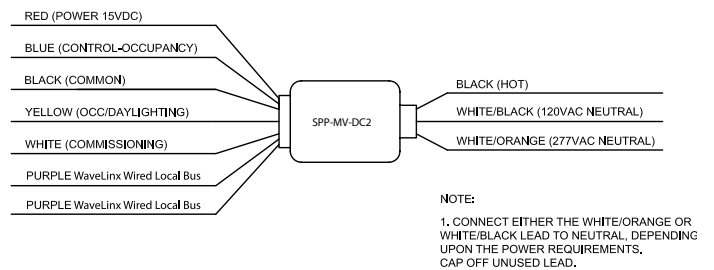
The following wiring diagram shows how to properly wire the device between the line voltage input, low voltage sensors and the two wire communications bus.



### CLASS 1 WIRING



### CLASS 2 WIRING



## Overview

The Sensor Powerpack provides power to low voltage sensors and communicates occupancy data status on the WaveLinx Wired Local Bus to the SCMD4. The Sensor Powerpack is ideal for open area spaces that require multiple dual technology sensors.

## Sample System Topology:

This diagram shows the main components of the WaveLinx Wireless and Wired Connected Lighting system.

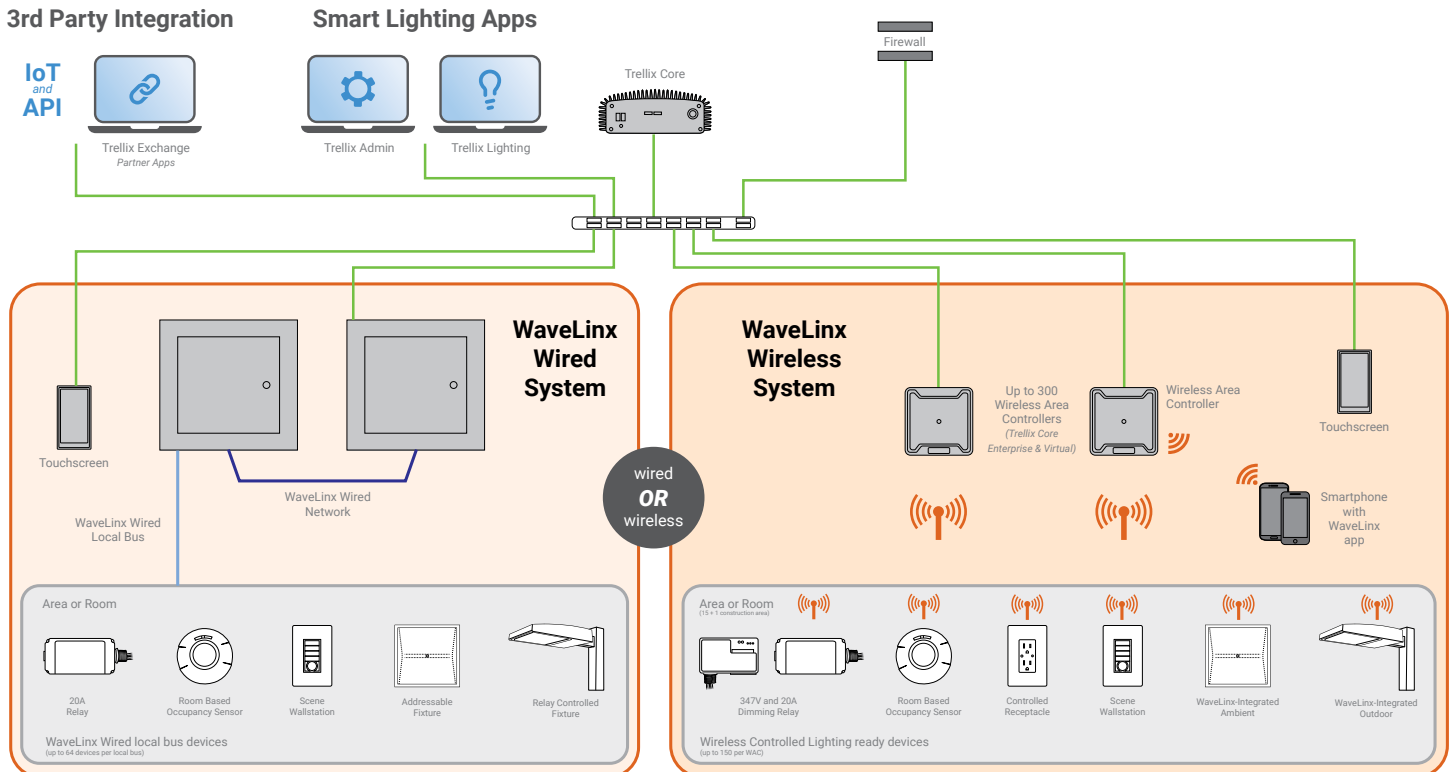
The **WaveLinx wireless system** communicates using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each Wireless Area Controller (WAC) is required for power and data access to the building lighting network.

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 communicate on the WaveLinx wired network.

The Trellix Core, WaveLinx Area Controllers (WAC) and WaveLinx Ethernet Gateways (EG2) communicate with each other over the Ethernet network.

Please refer to the WaveLinx Wireless Network and IT Guidance Technical Guide and WaveLinx Wired Network and IT Guidance Technical Guide for more information.

[View WaveLinx Network and IT Guidance Technical Guide](#)



## Control Systems

- Trellix
- WaveLinx Wireless
- WaveLinx Wired
- VividTune