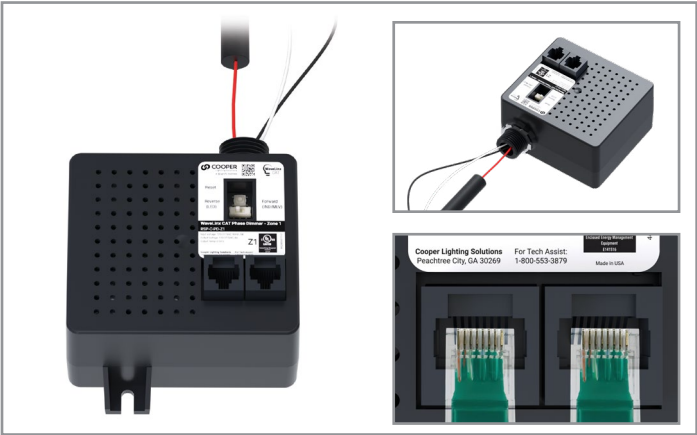


|             |  |           |  |      |  |
|-------------|--|-----------|--|------|--|
| Project     |  | Catalog # |  | Type |  |
| Prepared by |  | Notes     |  | Date |  |



# WaveLinX

## CAT Phase Selectable Dimmer (RSP-C-PD-Z1)

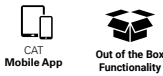
Phase Dimming switchpack for multiple load types

**Typical Applications**  
Office • Education • Healthcare • Hospitality • Retail

-  **Interactive Menu**
- Order Information page 2
  - Additional Resources page 3
  - Wiring Diagrams page 4
  - Connected Systems page 5
  - Product Warranty



### Product Features



### Compatibility



## Overview

Experience superior commercial lighting control with the WaveLinX CAT Phase Dimmer - engineered for versatility, reliability, and scalable performance. Supporting 120/277V input voltage and up to 8A of LED, ELV, MLV, and incandescent loads, it delivers robust, flicker-free dimming ideal for offices, retail, hospitality, and industrial environments. Its seamless integration with both WaveLinX CAT standalone and networked solutions ensures easy deployment across single rooms or entire buildings, reducing installation time and commissioning complexity. When paired with WaveLinX CAT wallstations, it provides intuitive, consistent control that enhances occupant comfort, energy efficiency, and long-term operational savings—making it the perfect choice for modern commercial facilities.

## Product Features & Benefits

- Plenum-rated design with easy junction box mounting
- Two RJ45 connectors to daisy chain with other CAT devices using standard CAT5 cabling
- Easy programming using WaveLinX Apps

 [product diagrams](#)

## Order Information

Catalog Number

| Catalog Number | Description                        |
|----------------|------------------------------------|
| RSP-C-PD-Z1    | WaveLinx CAT Phase Dimmer - Zone 1 |

## Product Specifications

## Safeguards:

- External in-line load fuse
- 18 AWG wire leads for line/load/neutral power, and 20 AWG wire for all LV leads

## Mechanical

**Size:** 3.10" x 3.50" x 1.875" (78.74 x 88.9 x 47.625mm)

**Weight:** 0.62 lbs (0.281 kg)

**Mounting:** Plastic enclosure with ½" molded electrical nipple and mounting bracket

**Color:** Black Molded plastic enclosure with a 5VA flammability rating

## Environmental:

- **Operating temperature:** 32°F to 122°F (0°C to 50°C)
- **Operating relative humidity:** 10% - 90% non-condensing
- **Storage temperature:** -22°F to 158°F (-30°C to 70°C)
- **Atmosphere:** Non-explosive/corrosive
- **Vibration:** Stationary
- For indoor use only

## Electrical

- **Voltage:** 120/277VAC @ 60Hz
- **Load Ratings:** 8A Electronic Ballast (LED), 8A Tungsten (incandescent), 8A Magnetic Ballast
- **Device Ratings:** 2W @ 120/277VAC (no load)
- **Output Ratings:** 8A @ 120/277VAC (or eq Wattage 960W / 2200W)
- Not suitable for plug load control
- Internal Line fuse, and external in-line load fuse
- Outputs optically isolated

## Network connection:

- 2 X RJ-45 connector for CAT5 Solid Copper cables
- T568B pin/pair assignment is recommended for all CAT5 cables

## Standards/Ratings\*

- Plenum Rated (UL2043)
- UL/CUL Listed (UL916)
- FCC Part 15 Class A
- NEMA SSL 7A

## Environmental Regulations:

- RoHS

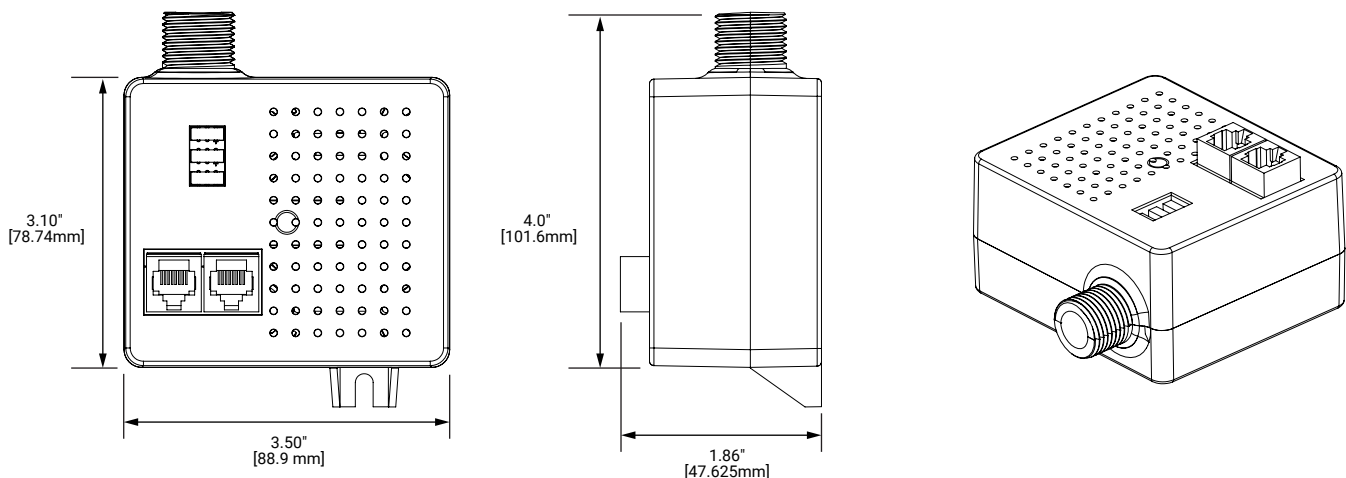
## Warranty

Five year warranty standard

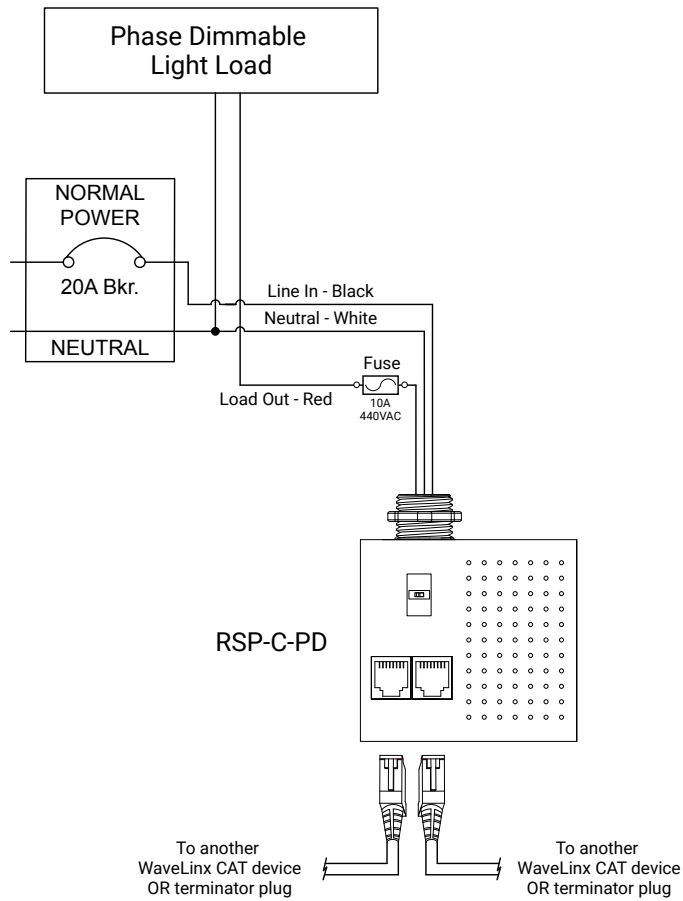


Download the WaveLinx CAT Mobile App from either the Google Play or Apple Store®

## Dimensional Details



## Wiring Diagrams



## Switch Details

### Switch Positions

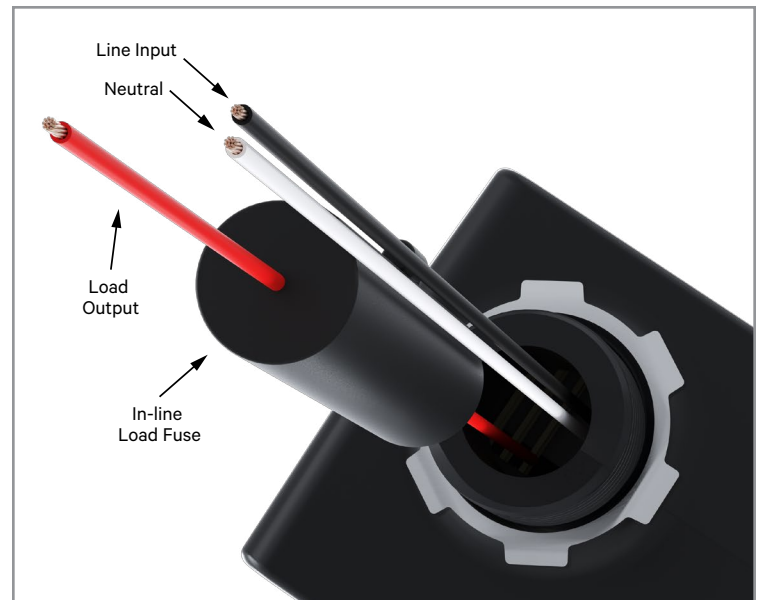
| Load Type | Control Type       | WaveLinx CAT                         |
|-----------|--------------------|--------------------------------------|
|           | MLV / Incandescent | Reverse (LED/ELV)  Forward (INC/MLV) |
|           | ELV / LED          | Reverse (LED/ELV)  Forward (INC/MLV) |



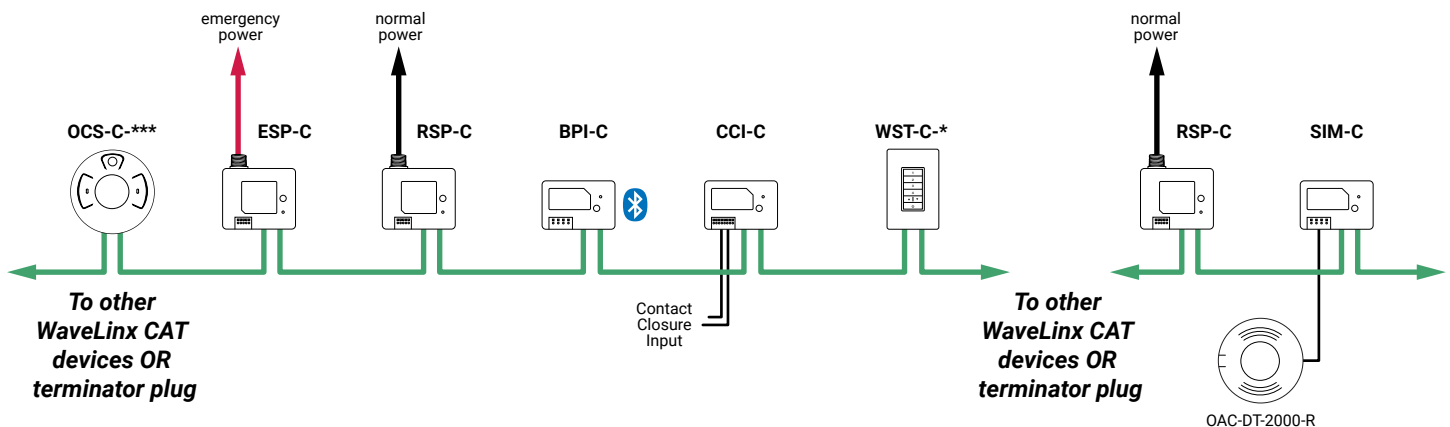
### Switch Descriptions

| Left              | Right             | Comments                                                                                               |
|-------------------|-------------------|--------------------------------------------------------------------------------------------------------|
| Reverse (LED/ELV) | Forward (INC/MLV) | Reverse (LED/ELV) = Trailing Edge for ELV/LED<br>Forward (INC/MLV) = Leading Edge for MLV/Incandescent |

\* When changing the three control mode switches on the RSP-C-PD-Z1 it is required the power to the dimmer device be shut off at the breaker to prevent accidental damage.



## Typical Topology



## System Diagram:

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

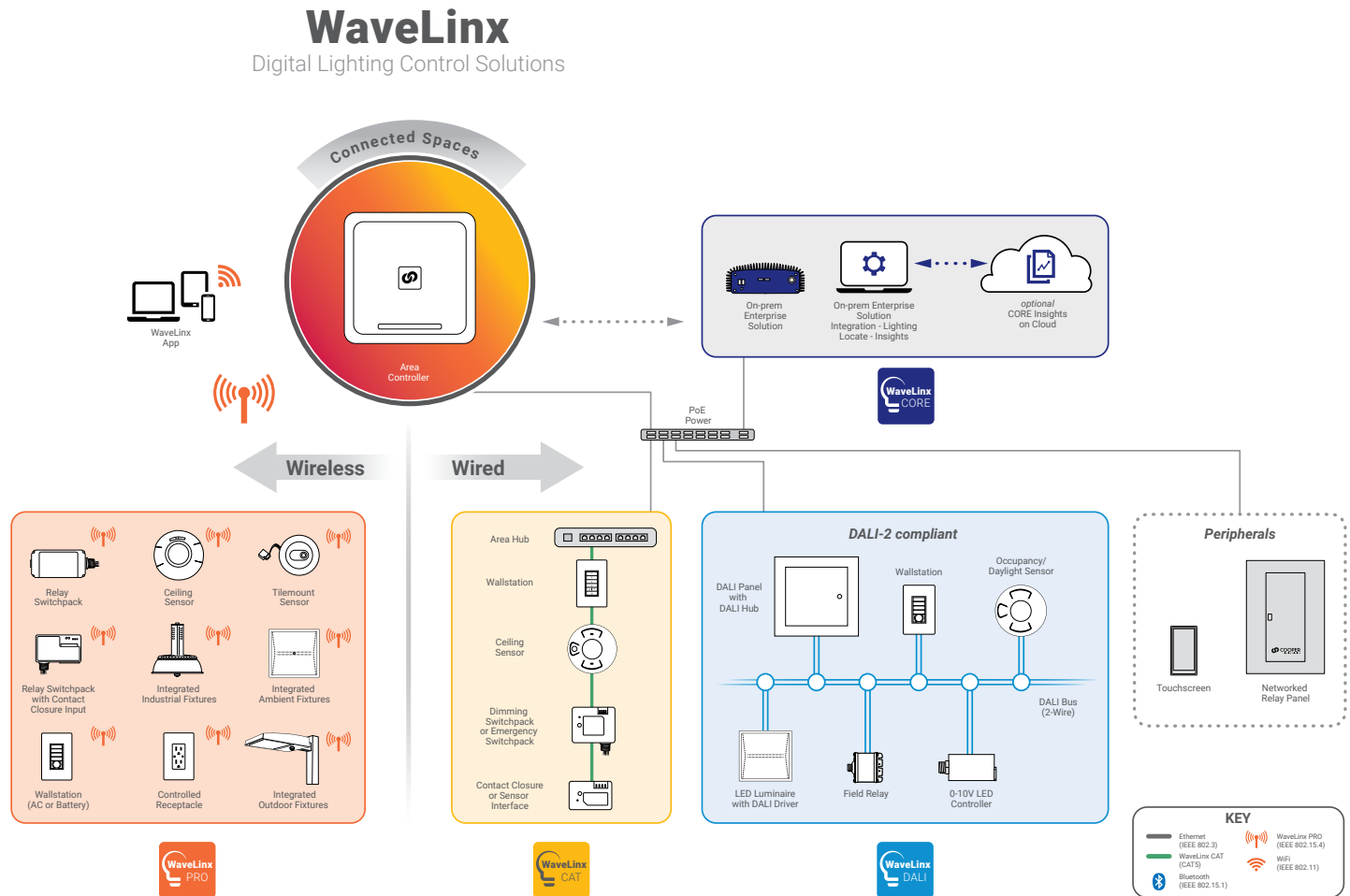
The PRO devices communicate using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each WaveLinx Area Controller (WAC) is required for power and data access to the building lighting network.

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 DALI devices communicate via a DALI bus (2 wires), which connects various components including DALI fixtures, a DALI DAC (DALI to 0-10V converter), DALI field relays, DALI wallstations, and DALI occupancy sensors.

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

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



**Control Systems**  
• WaveLinx