

# PDS-400 48 V CA4

Date: \_\_\_\_\_  
Type: \_\_\_\_\_  
Firm Name: \_\_\_\_\_  
Project: \_\_\_\_\_

**Ethernet, UL**

## POWER/DATA SUPPLY

### High-wattage outdoor-rated power and data supply for large scale architectural and media applications

PDS-400 48 V CA4 delivers integrated data and power to intelligent color and tunable white LED luminaires. PDS-400 48 V CA4 is the single solution for all large scale outdoor FlexElite installations, whether color or white.



- Easy installation—Accessible, clearly labeled terminal block connectors for Ethernet, line voltage, and luminaires make installation easy. Tethered cover with captive screws ensures convenient removal and replacement.
- Supports FlexElite luminaires—PDS-400 48 V CA4 merges line voltage and control data, delivering power and data to luminaires over a single cable, dramatically simplifying installation and lowering total system cost. PDS-400 48 V CA4 supports the IEEE 802.3at standard, delivering up to 30 W of power to compatible Power over Ethernet (PoE) accessories.
- Longer run lengths—PDS-400 48 V CA4 provides Chromasic gen4 data to up to 128 FlexElite nodes across 4 output ports, supporting runs of up to 305 m (1,000 ft) per port.
- Integrated test button and effects—PDS-400 48 V CA4 features an onboard button for testing LED nodes, even before fully installing your control system. Press the button to instantly show a color wash on attached FlexElite nodes, confirming that your devices are working as expected. Press the button again, and the nodes will resume normal operation. On-board indicator LEDs provide visual feedback for normal operation, DMX and Ethernet connection detection, and Ethernet data transmission. PDS-400 48 V CA4 also has a built-in fixed-color effect for use with simple 0-10 V control systems.
- Replaceable power supply—PS-600 48 V can be easily installed to replace the power supply of any existing PDS-400 48 V CA4 device without the need to remove the entire PDS-400 48 V CA4 device.
- Outdoor-rated for use in damp and wet environments—PDS-400 48 V CA4 offers superior leakage protection in a cast aluminum, IP66-rated enclosure.
- Multiple conduit entries—PDS-400 48 V CA4 conduit entries accommodate NPT conduit in US trade sizes of 1/2 in and 3/4 in, or metric sizes of PG13.5 and PG16.
- Universal power input range—PDS-400 48 V CA4 automatically senses line voltages ranging from 100 to 277 VAC and passes line voltages through AC daisy chain to all connected PDS-400 48 V CA4 devices.
- Interact Landmark integration—Interact Landmark allows you to monitor dynamic architectural lighting assets and manage scenes using Interact Landmark software and system architecture. We make it easy to create and trigger light shows from anywhere, while simplifying maintenance.
- Expanded dimming flexibility—PDS-400 48 V CA4 expands compatibility of FlexElite luminaires to virtually any architectural 0-10 V source.

For more information, please refer to  
[www.colorkinetics.com/global/products/pds/pds400-ca4](http://www.colorkinetics.com/global/products/pds/pds400-ca4)

# Specifications

Due to continuous improvements and innovations, specifications may change without notice.

## Electrical

|                       |                                        |
|-----------------------|----------------------------------------|
| Input Voltage         | 100 to 277 VAC, auto-ranging, 50/60 Hz |
| Maximum Input Current | 16 A maximum                           |
| Maximum Input Load    | 400 W                                  |

## Connections

|                   |                                                                                                                                                                                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Threaded Openings | 3/4 in NPT for power, 1/2 in NPT for data                                                                                                                                            |
| Data Input Source | Color Kinetics full range of controllers, including Light System Manager, Video System Manager Pro, iPlayer 3, Antumbra iColor Keypad, and ColorDial Pro, or third-party controllers |
| Power Input       | 3-wire terminal block connector†                                                                                                                                                     |
| Power Output      | 2-wire terminal block connector†                                                                                                                                                     |
| Data Input        | 2-wire terminal block connector (0-10V)†                                                                                                                                             |
| Data Input/Output | 2x 4-wire terminal block connector (DMX)<br>2x 4-wire terminal block connector (Ethernet)<br>Shielded 8P8C (RJ45) connector (PoE Port)                                               |
| Data Output       | 3-wire terminal block connector                                                                                                                                                      |

## Compatible Luminaires

Up to 128 FlexElite nodes for 4 channel control based on configuration, data resolution, and cable limits.

† Terminal block connectors accept wire sizes from 0.2 to 1.5 mm<sup>2</sup> (24 to 16 AWG) for 2-wire and 2x 4-wire, and 0.2 to 6 mm<sup>2</sup> (24 to 10 AWG) for 3-wire.

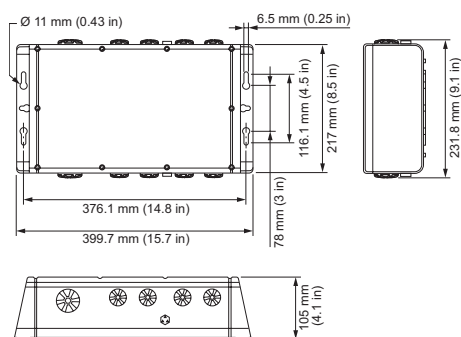
## Physical

|                           |                                     |
|---------------------------|-------------------------------------|
| Dimensions                | 105 x 232 x 400 mm (4 x 9 x 15 in)  |
| (Height x Width x Depth)  |                                     |
| Weight                    | 9 kg (19.8 lb)                      |
| Housing                   | Cast aluminium enclosure            |
| Mounting                  | Slots for surface mounting          |
| Finish                    | Powder-coated industrial gray matte |
| Associated Product Family | FlexElite                           |
| Operating Temperature     | -40 to 50 °C (-40 to 122 °F)        |
| Startup Temperature       | -20 to 50 °C (-20 to 122 °F)        |
| Storage Temperature       | -40 to 80 °C (-40 to 176 °F)        |
| Humidity                  | 0 to 95%, non-condensing            |
| Cooling                   | Convection                          |

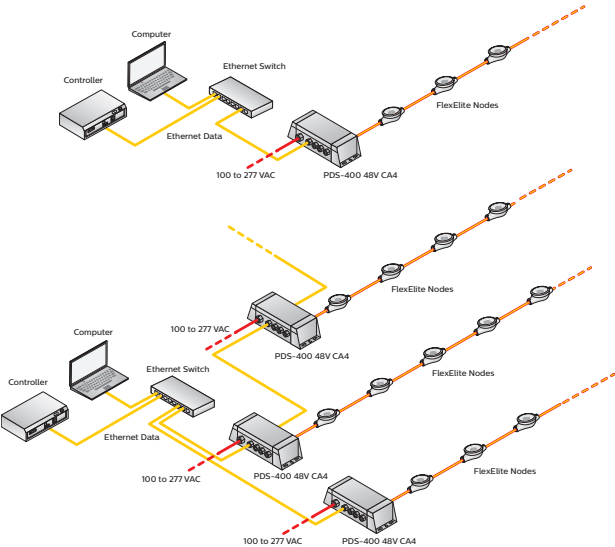
## Certification and Safety

|               |                             |
|---------------|-----------------------------|
| Certification | UL/cUL, FCC Class A, RCM    |
| Environment   | Dry/Damp/Wet Location, IP66 |

## Dimensions



Ethernet Configuration



Notes: PDS-400 48 V CA4 supports either DMX or Ethernet mode. In Ethernet mode each ports is one universe, for a total of 4 universes. In DMX mode each PDS is one universe.

Part Numbers

Use Item Number when ordering in North America.

| Power/Data Supply                   | Item Number   | Item 12NC    |
|-------------------------------------|---------------|--------------|
| PDS-400 48 V CA4, Ethernet, UL      | 109-000035-00 | 912400135914 |
| Replacement Part                    |               |              |
| PS-600 48V Replacement Power Supply | 109-000220-00 | 912400133803 |



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Color Kinetics  
www.colorkinetics.com