CentralDrive™

Remote Driver System

PATHWAY LIGHTING
CentralDrive is a system of low voltage LED lighting fixtures with drivers that are remotely located.

Many reasons to use remote driver systems

Enhanced Reliability
- Driver and LED life are reduced by high operating temperatures.
- CentralDrive architecture reduces operating temperatures providing increased life.
- 10-year warranty on lighting fixtures. 5-year warranty on Remote Power Unit.

Maintenance Ease
- LED drivers do not last as long as LED light engines and sometimes require replacement.
- Centrally located, easily accessible CentralDrive Power Unit facilitates driver replacement.
- No need for expensive scaffolding and lifts for driver replacement.
- Decreased downtime for lighting system.
- Fixture maintenance is reduced to virtually zero due to the longevity of the LED light engine.
- The only electrical component in the fixture is the LED; there is nothing left to fail.

Installation Ease
- Fixture connections made with two-conductor, low-voltage cable similar to A/V and alarm cable.
- No expensive and bulky conduit required.
- All complex dimming and control connections made in accessible CentralDrive Power Units.

Future Flexibility
- Fixture lumen outputs can be modified by a simple on-site driver change or reprogramming.
- Available for fixtures from 1000 to 10,000 lumens.

Safety
- No high-voltage AC wiring in the ceiling.
Typical Layout

AC Power Switch

Dimming Control Signals
0-10V, DMX, DALI

Dimming System
Sensors
Switches
Wireless Controls

CentralDrive™
Power Supply

LED Driver Output Channels
Low Voltage Constant Current
18AWG, Shielded Two-Conductor Cable
Up To 200’ Wire Run

LED Lighting Fixtures
CentralDrive Remote Driver Features

- Wall-mount design is suitable for electrical and equipment closets.
- Designed for easy repair in field. Individual drivers can be replaced.
- If one channel fails, other channels remain operational.
- Built-in output monitoring for fault diagnosis.
- External LEDs provide visual indication of channel health.
- Programmable currents:
  - 200 mA to 2100 mA (1000-10,000 lumens)
  - 12 standard values
  - Custom currents available
  - Factory programmable only
- Up to 10 output channels depending on current.
## Remote Driver Models

<table>
<thead>
<tr>
<th>MODEL #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCDELD</td>
<td>eldoLED drivers, 0% logarithmic dimming</td>
</tr>
<tr>
<td>LCDELDDMX</td>
<td>eldoLED drivers, DMX/RDM compatible, 0% logarithmic dimming</td>
</tr>
<tr>
<td>LCDELDDALI</td>
<td>eldoLED drivers, DALI compatible, 0% logarithmic dimming</td>
</tr>
<tr>
<td>LCDLS</td>
<td>LumaStream drivers, 0.2% logarithmic dimming</td>
</tr>
<tr>
<td>LCDLSDMX</td>
<td>LumaStream drivers, DMX compatible, 0.2% logarithmic dimming</td>
</tr>
<tr>
<td>LCDD8</td>
<td>Philips Xitanium drivers, 1% linear dimming</td>
</tr>
<tr>
<td>LCDDL8</td>
<td>Philips Xitanium drivers, 1% logarithmic dimming</td>
</tr>
<tr>
<td>LCDERP1</td>
<td>ERP drivers, 1% linear dimming, 120V forward/reverse phase dimming, 10,000 lumen only</td>
</tr>
<tr>
<td>LCDERP2</td>
<td>ERP drivers, 0.2% linear dimming</td>
</tr>
</tbody>
</table>

- **Dimming:**
  - 0-10V with one zone
  - RDM compatible DMX, up to 5000 lumens
  - DMX (not RDM compatible), more than 5000 lumens
  - DALI, up to 5000 lumens
- **Dimming from 0% to 1%** depending on application.
- **Dimming profiles:**
  - Linear
  - Logarithmic
- **High-power efficiency** (>86%) regardless of number of channels used.
- **Maximum drive power** of 440 watts.
- **Convection cooled**, no fans.
- **Remote mounting** up to 200 ft. to fixtures (wire run).

### NOTES:
- Dimming in 0-10V unless otherwise specified
- For other DMX options please consult Pathway Lighting
All of our lighting fixtures can be configured to interface with the CentralDrive Remote Driver Panels. Our initial launch highlights our Architectural products. Commercial series to be added soon.

**CentralDrive Configuration Tool**

- Our interactive Excel-based tool will guide you in the selection of the Remote Driver Panel.
- Input system requirements and the tool helps select optimum configuration and appropriate CentralDrive Power Unit.
- Intended for use by both inside and outside sales staff.
- Will have automatic links to specification sheets on Pathway Lighting’s website.
- Remote lighting fixtures that are compatible with CentralDrive will have “LCD” in model numbers. LCD is acronym for Low-voltage CentralDrive.
- Online configuration tool coming 2nd Quarter 2018.

**Lighting System Design**

- CentralDrive lighting system design is easy.
- Our engineering and sales staff are available for assistance in the final design and quoting of complete lighting systems.
Emergency Power Mode for CentralDrive Systems

- All Emergency fixtures need to be identified in the installation when designing the layout.
- Emergency fixture must be operated with a separate and dedicated CentralDrive Power Unit.
- This Power Unit will be powered from a true sine-wave inverter which can be supplied by Pathway Lighting or a generator.

How to Find CentralDrive Products Online

Click the CentralDrive logo which can be found on the home page of www.PathwayLighting.com
Because Sometimes Drivers Fail

- Drivers do not last forever. Similar to CFL ballasts, they may require periodic replacement.
- CentralDrive enables fast, easy and inexpensive driver replacement.
- Built-in diagnostics assist with system debug in the event of a failure.
- CentralDrive remote fixtures have a ten-year parts warranty.
- CentralDrive Power Drive Units have a five-year parts warranty.