



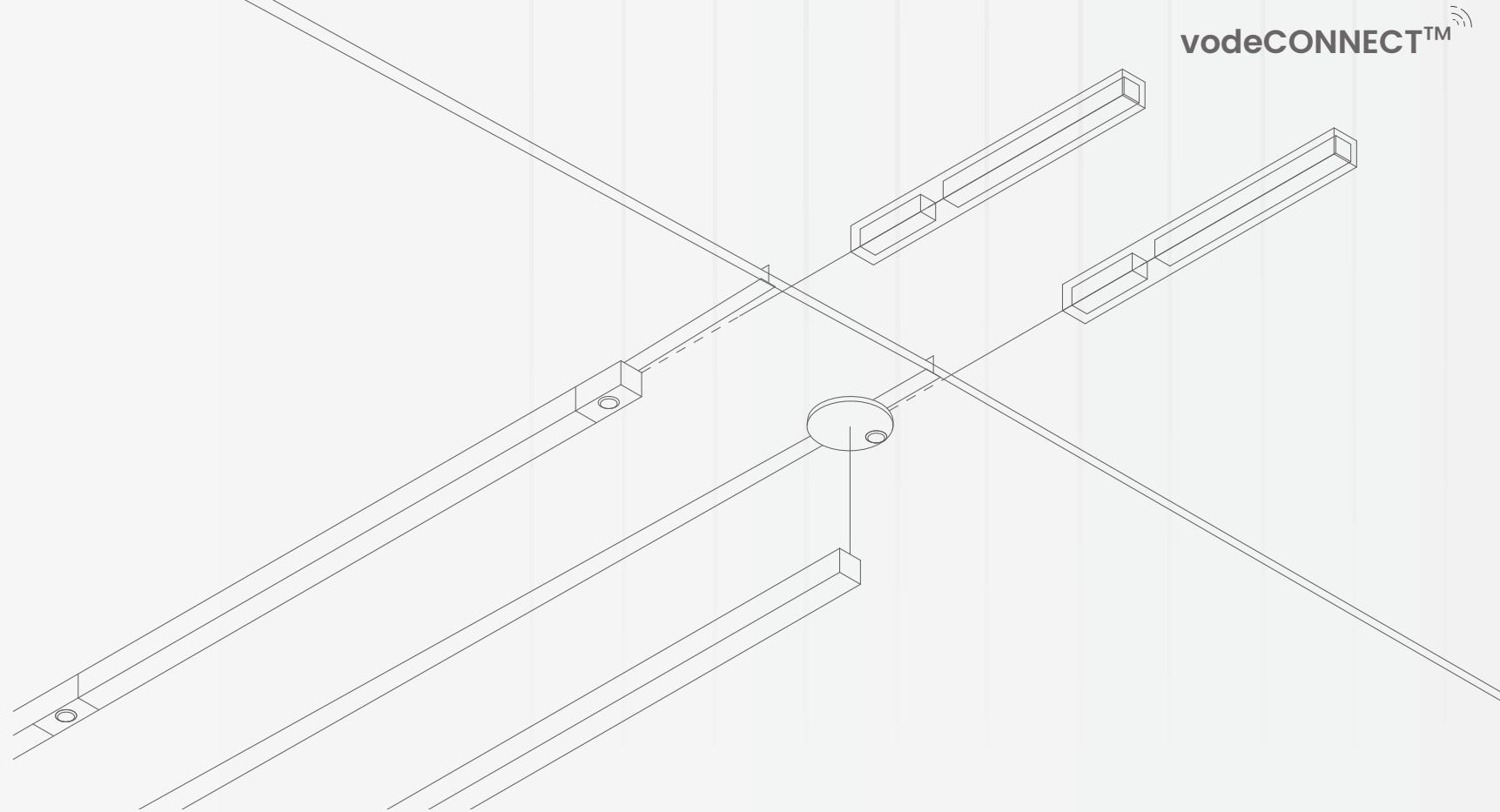
vodeCONNECT™

Responsive illumination through Luminaire Level Lighting Controls.

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introduction.



vodeCONNECT™

What is vodeCONNECT™?

vodeCONNECT™ is a lighting controls integration solution that combines embedded sensor technology with compatibility and leading network control systems. vodeCONNECT™ offers the option for luminaire level lighting controls (LLLC),

which is a fixture-based sensor able to control based on occupancy, daylighting and timeclock control. This program brings together the possibility for a clean design aesthetic and smart building technology.

vodeCONNECT™ reliably offers

**Daylight
Vacancy
Occupancy**

Luminaire Level Lighting Controls

What and Why



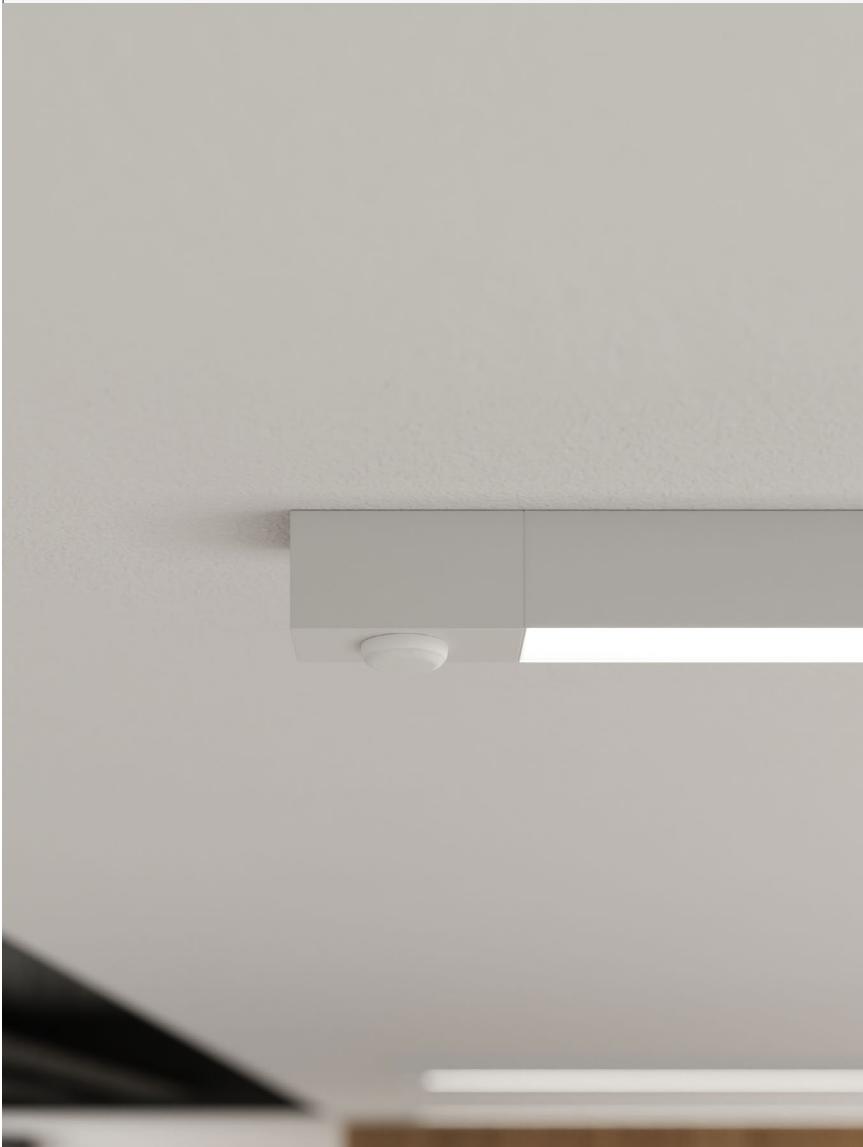
What?

As explained by the Lighting Controls Association of North America, Luminaire Level Lights Controls (LLLC) are "...lighting control systems in which sensors and controllers are installed within luminaires to enable autonomous, individual luminaire control. **By making each luminaire a control point, control is highly flexible, responsive, and therefore generally more energy-saving.**"

Why?

Said simply - we want to save you energy, time, and cost!

Sensors ensure light is delivered precisely when and where it's needed, optimizing energy usage. For designers, our streamlined system means fewer devices to layout in the ceiling, saving you valuable time. Contractors benefit too, with fewer components to install, reducing overall costs.



What?

Introducing a lighting controls solution, designed to connect you with your space while ensuring optimal ease of use and compatibility with leading smart building technologies.

Our system features embedded sensor technology and works seamlessly with the top network controls systems from our trusted partners in manufacturing.

Why?

Our commitment to design excellence is showcased through every detail, as each compatible sensor is meticulously fitted to seamlessly integrate into our little but luminous lighting solutions.

Experience the perfect blend of sustainability and style with vodeCONNECT™ as we demonstrate that form and function can indeed walk hand in hand.

Our Partners.

When specifying vodeCONNECT™, you can be assured that Vode fixtures are compatible with common sensors from the following industry leaders:



Types of Sensors

Sensor Capabilities

Daylight Sensors

Luminaire level lighting control daylight sensors are devices used in lighting systems to detect natural light levels per fixture (versus per space) to adjust artificial lighting accordingly, optimizing energy efficiency indoors. By measuring ambient light, these sensors automatically control the lighting fixtures, dimming or brightening them as needed to maintain consistent illumination levels throughout the day.



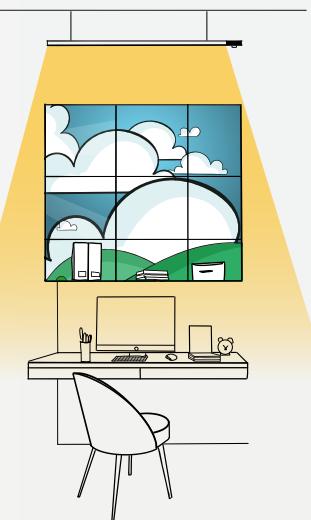
Sufficient natural light



Insufficient natural light



Insufficient natural light



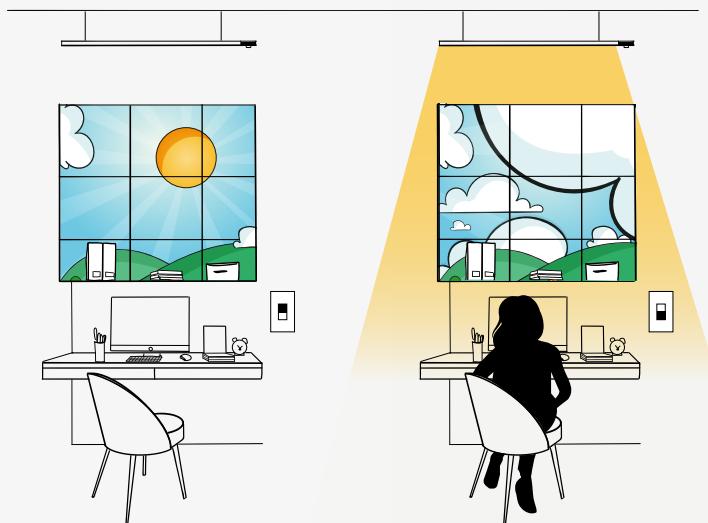
Insufficient natural light

Types of Sensors

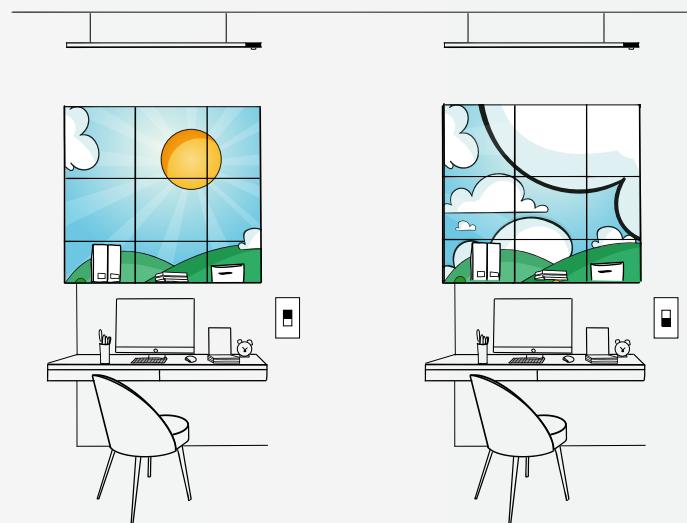
Sensor Capabilities

Vacancy Sensors

Luminaire level lighting control vacancy sensors are integrated into lighting systems to save energy by automatically turning off lights in unoccupied spaces. They employ motion detection technology to detect movement within a specified area, prompting lights to dim or turn off. Occupants must manually switch the lights back on. This allows the user to determine if overhead lighting is needed or if ambient natural light is sufficient.



Vacant
(Light switch off)



Occupied
(Light switch on)

Vacant
(Light switch off)

Types of Sensors

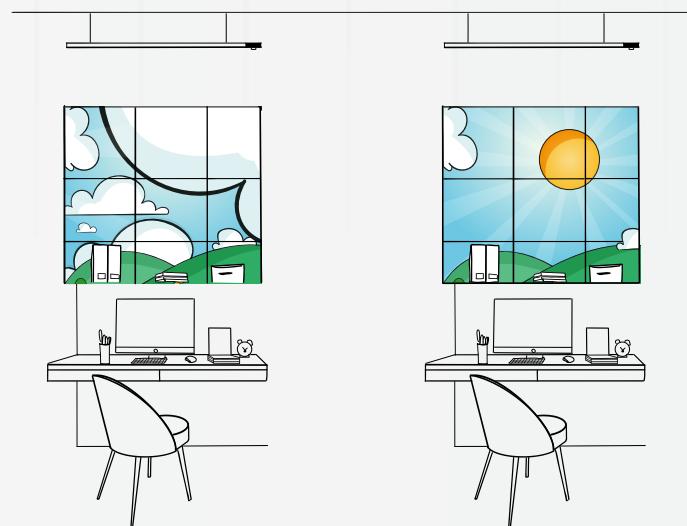
Sensor Capabilities

Occupancy Sensors

Luminaire level lighting control occupancy sensors are devices integrated into lighting systems to automatically control light fixtures based on the presence or absence of people in a space. They use various technologies such as infrared, ultrasonic, or microwave to detect motion and occupancy, enabling energy savings by turning lights on or off as needed.



Occupied



Vacant

Compatibility.

Sensors Compatible with Fixture Integration



nLight Air



nLight Wired



Lutron Athena



Lutron Vive



Legrand Wattstopper



Encelium SensiLUM

Products Compatible with Fixture Integration



ZipTwo | Square 3535 | 707

Compatibility.

Sensors Compatible with Canopy Integration



Lutron Athena



Legrand Wattstopper

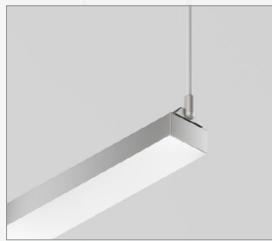
Products Compatible with Canopy Integration



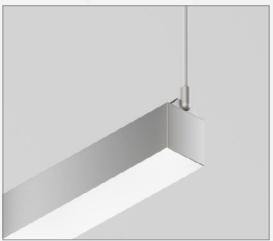
ZipTwo | Micro 3508 |
Ceiling Cable | 707



ZipTwo | Round 3515 |
Ceiling Cable | 707



ZipTwo | Square 3520 |
Ceiling Cable | 707



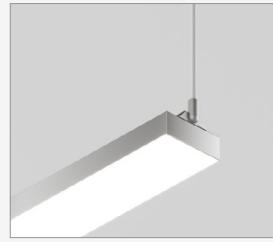
ZipTwo | Square 3535 |
Ceiling Cable | 707



ZipTwo | Square 3535/30 |
Ceiling Cable | 707



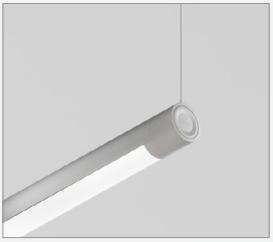
ZipTwo | Square 3570 |
Ceiling Cable | 707



ZipTwo | Square 5020 |
Ceiling Cable | 707



BoxRail | Ceiling Cable | 107



RaceRail | Ceiling Cable | 107



WingRail | Ceiling Cable | 107



BoxRail | 207

Sensor

Product Compatibility

Sensors, drivers and control units that are integrated into Vode fixtures are discrete components that communicate with network lighting controls.

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For more information about each network lighting control system, visit the manufacturer's website for additional system information and technical data sheets.

Controls System	Sensing Functions	Compatible Luminaire	Sensor Location	Power Location Options	Sensor Distance	Compatible Control Protocols
 Legrand Wattstopper LMFS-601-W	<ul style="list-style-type: none"> • Occupancy • Vacancy • Daylight 	<ul style="list-style-type: none"> • ZipTwo Square 3535 707 	<ul style="list-style-type: none"> • Luminaire 	<ul style="list-style-type: none"> • Remote • VodeNODE 	<ul style="list-style-type: none"> • 100ft (30.5m) 	<ul style="list-style-type: none"> • 0-10V, 1% Dimming • 0-10V, 0.1% Dimming • DALI, 1% Dimming
	<ul style="list-style-type: none"> • Occupancy • Vacancy • Daylight 	<ul style="list-style-type: none"> • BoxRail Ceiling Cable 107 • RaceRail Ceiling Cable 107 • WingRail Ceiling Cable 107 • BoxRail Ceiling Cable 207 • ZipTwo Ceiling Cable 707 	<ul style="list-style-type: none"> • Canopy 	<ul style="list-style-type: none"> • Remote • VodeNODE 	<ul style="list-style-type: none"> • 100ft (30.5m) 	<ul style="list-style-type: none"> • 0-10V, 1% Dimming • 0-10V, 0.1% Dimming • DALI, 1% Dimming
 Lutron Athena A-WN-D01-OCC-WH	<ul style="list-style-type: none"> • Occupancy • Vacancy • Daylight 	<ul style="list-style-type: none"> • ZipTwo Square 3535 707 	<ul style="list-style-type: none"> • Luminaire 	<ul style="list-style-type: none"> • Remote • VodeNODE 	<ul style="list-style-type: none"> • 100ft (30.5m) 	<ul style="list-style-type: none"> • 0-10V, 1% Dimming • 0-10V, 0.1% Dimming • DALI, 0.1% Dimming • DALI, 1% Dimming • Lutron 1% EcoSystem
	<ul style="list-style-type: none"> • Occupancy • Vacancy • Daylight 	<ul style="list-style-type: none"> • BoxRail Ceiling Cable 107 • RaceRail Ceiling Cable 107 • WingRail Ceiling Cable 107 • BoxRail Ceiling Cable 207 • ZipTwo Ceiling Cable 707 	<ul style="list-style-type: none"> • Canopy 	<ul style="list-style-type: none"> • Remote • VodeNODE 	<ul style="list-style-type: none"> • 100ft (30.5m) 	<ul style="list-style-type: none"> • 0-10V, 1% Dimming • 0-10V, 0.1% Dimming • DALI, 0.1% Dimming • DALI, 1% Dimming • Lutron 1% EcoSystem

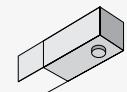
Sensor

Product Compatibility

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Controls System	Sensing Functions	Compatible Luminaire	Sensor Location	Power Location Options	Sensor Distance	Compatible Control Protocols
 Lutron Vive DFCSJ-OEM-OCC	<ul style="list-style-type: none"> • Occupancy • Vacancy • Daylight 	<ul style="list-style-type: none"> • ZipTwo Square 3535 707 	<ul style="list-style-type: none"> • Luminaire 	<ul style="list-style-type: none"> • Remote • VodeNODE 	<ul style="list-style-type: none"> • 60ft (18.3m) 	<ul style="list-style-type: none"> • DALI, 0.1% Dimming • DALI, 1% Dimming • Lutron 1% EcoSystem
 nLight Air RES7 EXT900 ACWH 180D G2	<ul style="list-style-type: none"> • Occupancy • Vacancy • Daylight • Asset Tracking 	<ul style="list-style-type: none"> • ZipTwo Square 3535 707 	<ul style="list-style-type: none"> • Luminaire 	<ul style="list-style-type: none"> • Remote • VodeNODE 	<ul style="list-style-type: none"> • 100ft (30.5m) 	<ul style="list-style-type: none"> • 0-10V, 1% Dimming • 0-10V, 0.1% Dimming • DALI, 0.1% Dimming • DALI, 1% Dimming • LEDcode, 1% Dimming
 nLight Wired nES PDT 7 ADCX	<ul style="list-style-type: none"> • Occupancy • Vacancy • Daylight • Asset Tracking 	<ul style="list-style-type: none"> • ZipTwo Square 3535 707 	<ul style="list-style-type: none"> • Luminaire 	<ul style="list-style-type: none"> • Remote • VodeNODE 	<ul style="list-style-type: none"> • 100ft (30.5m) 	<ul style="list-style-type: none"> • 0-10V, 1% Dimming • 0-10V, 0.1% Dimming • DALI, 0.1% Dimming • DALI, 1% Dimming • LEDcode, 1% Dimming
 Encelium SensiLUM EN-CLM-PIR-DD-ZB	<ul style="list-style-type: none"> • Occupancy • Vacancy • Daylight 	<ul style="list-style-type: none"> • ZipTwo Square 3535 707 	<ul style="list-style-type: none"> • Luminaire 	<ul style="list-style-type: none"> • Remote • VodeNODE 	<ul style="list-style-type: none"> • 100ft (30.5m) 	<ul style="list-style-type: none"> • 0-10V, 1% Dimming • 0-10V, 0.1% Dimming • DALI, 1% Dimming

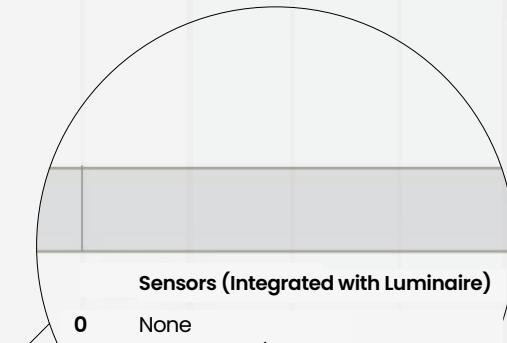
specification



Specification of Products with Integrated Sensors

Build Your Specification

707-Z2	SL			0	»
System & Rail Type	System Type	System Length	Rail Length	Mounting	Arm/Cable Length
707-Z2 ZipTwo	SL Standard Linear	Specify overall system length in ft/in or M/m.	24" 24" (610mm) 36" 36" (914mm) 48" 48" (1219mm) 60" 60" (1524mm) 72" 72" (1829mm) 96" 96" (2438mm) 108" 108" (2743mm) 120" 120" (3048mm) 132" 132" (3352mm) 144" 144" (3658mm) ZZ Other rail length or layout (please specify)	C Clip CM Clip with Micro J-Clip T1 9/16" T-Bar Clip, low profile T2 15/16" T-Bar Clip, low profile T3 15/16" T-Bar Clip, medium profile T4 15/16" T-Bar Clip, concealed T5 9/16" T-Bar Clip, medium profile Slotted T-Bar Clip TT Dimensional T-Bar Clip SC Square Channel Clip DM Armstrong Dynamax CC Ceiling Cable ZZ Other (please specify)	0 None
<small>Corner and Shapes Available See Guide for details.</small>					
<small>See Rail Length Chart for more details.</small>					
<small>⚠ Custom lengths may result in tight gaps on the fixture. See Rail Length Chart for more details.</small>					
<small>Power Location Remote Power Power Type Voltage Emergency Power LED Type</small>					
<small>RP10 10' (3.048m) Wire Harness AE 0-10v, 1.0% Power 1 120v 0 No Emergency Power Z Zipper Board</small>					
<small>RP25 25' (7.62m) Wire Harness AF 0-10v, 0.1% Dimming 2 120v-277v ZZ Emergency Power (specify requirements)</small>					
<small>RP50 50' (15.24m) Wire Harness AD 0-10v, 1.0% Dimming X Not Yet Specified</small>					
<small>RP75 75' (22.86m) Wire Harness AX DMX, 100-9% Dimming</small>					
<small>RP100 100' (30.48m) Wire Harness AH Hi-Lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE¹</small>					
<small>AH2 ELV 1% 2-wire (Forward and Reverse Phase)²</small>					
<small>Optimized Power Add 'O' to power type example: AEO, ATO...etc.³</small>					
<small>VodeNODE Add 'N' to power type for Flexible 1 to 1 Power Add 'ON' to power type for Optimized Power example: AEN, ATN, AEON, ADON...etc.⁴</small>					
<small>ZZ Other (please specify)</small>					
<small>See Power Guide for driver features & limitations.</small>					
<small>Lumen Output Color Temperature Optics Sensors (Integrated with Luminaire)</small>					
<small>LO Low Output 90+ CRI S5 Square 3535, Critical Edge 0 None WSI Wattstopper sensor</small>					
<small>SO Standard Output 27 2700K S6 Square 3535, Diffuse NLJ nLight Air sensor ECI Encelium SensiLUM</small>					
<small>HO High Output 30 3000K S9 Square 3535, Side Diffuse NWI nLight Wired sensor</small>					
<small>ZZ Other (please specify) 35 3500K SA Square 3535, Single Side Diffuse LAI Lutron Athena sensor ZZ Other (please specify)⁵</small>					
<small>40 4000K LVI Lutron Vive sensor</small>					
<small>See IES Files page for details.</small>					
<small>See Power Guide for driver features & limitations.</small>					
<small>RGBW 90+ CRI</small>					
<small>C279 RGB Color, 2700K C300 RGB Color, 3000K C359 RGB Color, 3500K C409 RGB Color, 4000K</small>					
<small>ZZ Tunable White Available See Guide for details.</small>					
<small>NOTES & LIMITATIONS</small>					
<small>Mounting type available with Chicago Plenum. Contact factory for details.</small>					
<small>¹Optimized Power is not available with Hi-Lume 1% EcoSystem (AHO) Power Type.</small>					
<small>²VodeNODE enclosure is not available with ELV 1% 2-wire (AH2) Power Type.</small>					
<small>³Sensors are available please contact Vode for more information.</small>					
<small>⁴Lengths of 24" and shorter are not supported due to driver limitations. Daisy chaining multiple fixtures to achieve minimum load is permitted but may introduce installation complexity—consult factory for layout guidance.</small>					
<small>⁵RGBW limited to a maximum of 60° for Standard and High Output.</small>					
<small>Listed to UL standards for damp location by a Nationally Recognized Testing Laboratory (NRTL) recognized by OSHA. Certain limitations exist for each Certification. Contact factory for verification.</small>					
<small>Standard 5 Year Limited Warranty. See details here. Contact factory for options on Limited Warranties up to 20 years.</small>					
Finish	Options				
WH White	0 None				
BL Black	9 9' 18' 3' Cord and Plug				
	LLLC Luminaire Level Lighting Controls				
	CPS Chicago Plenum Fixture Adapter & Power				
	CPA Chicago Plenum Fixture Adapter				
	CPP Chicago Plenum Power				

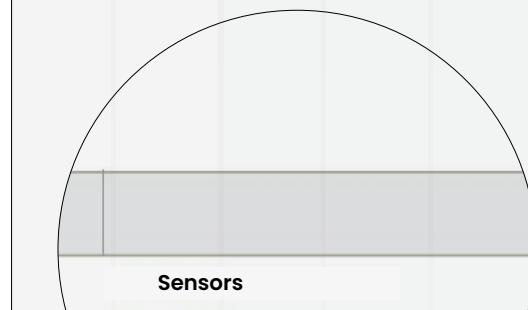
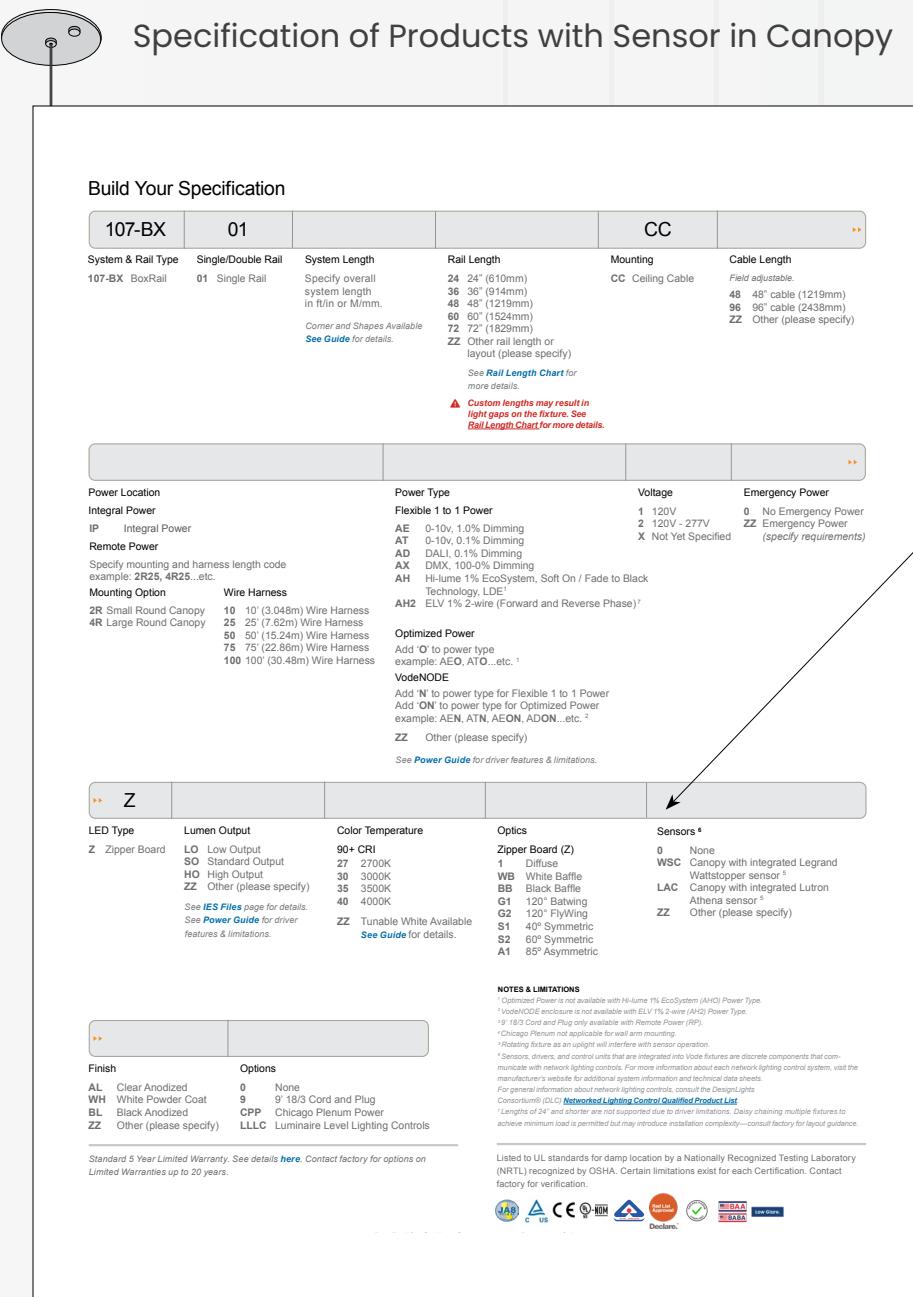


Sensors (Integrated with Luminaire)

- 0** None
- NLI** Luminaire w/ integrated nLight Air sensor
- NWI** Luminaire w/ integrated nLight Wired sensor
- LAI** Luminaire w/ integrated Lutron Athena sensor
- LVI** Luminaire w/ integrated Lutron Vive sensor
- WSI** Luminaire w/ integrated Legrand Wattstopper sensor
- ECI** Luminaire w/ integrated Encelium SensiLUM sensor
- ZZ** Other (please specify)

Specification.

Specification of Products with Sensor in Canopy



Sensors

0 None
WSC Canopy with integrated Legrand Wattstopper sensor
LAC Canopy with integrated Lutron Athena sensor
ZZ Other (please specify)

Driver Compatibility

Matrix

Type	nLight Air	nLight Wired	Lutron Vive	Lutron Athena	Legrand Wattstopper	Encelium SensiLUM
AE	Yes	Yes ¹	X	Yes	Yes	Yes
AT	Yes ²	Yes ²	X	Yes ²	Yes ²	Yes ²
AD	Yes	Yes	Yes	Yes	X	X
AX	X	X	X	X	X	X
AH	X	X	Yes ²	Yes	X	X
AH2	X	X	X	X	X	X
DALI 1%	Yes	Yes	Yes	Yes	Yes	Yes

NOTES: 1. Standard drivers not available with 120" HO. 2. 120" HO not available.

Encelium SensiLUM

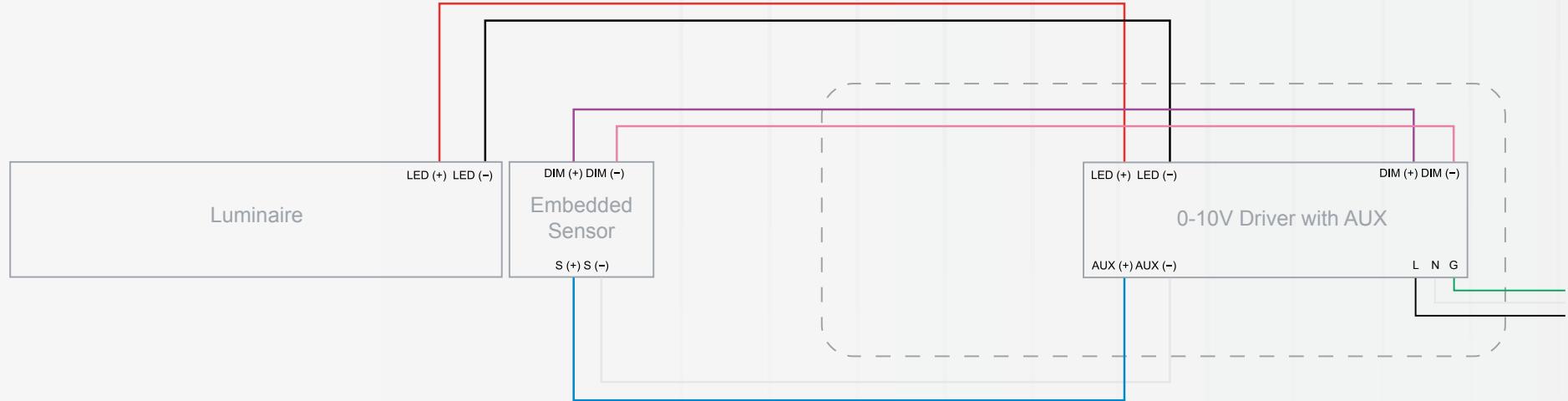
Wiring Diagrams

vodeCONNECT™

ENCELIUM

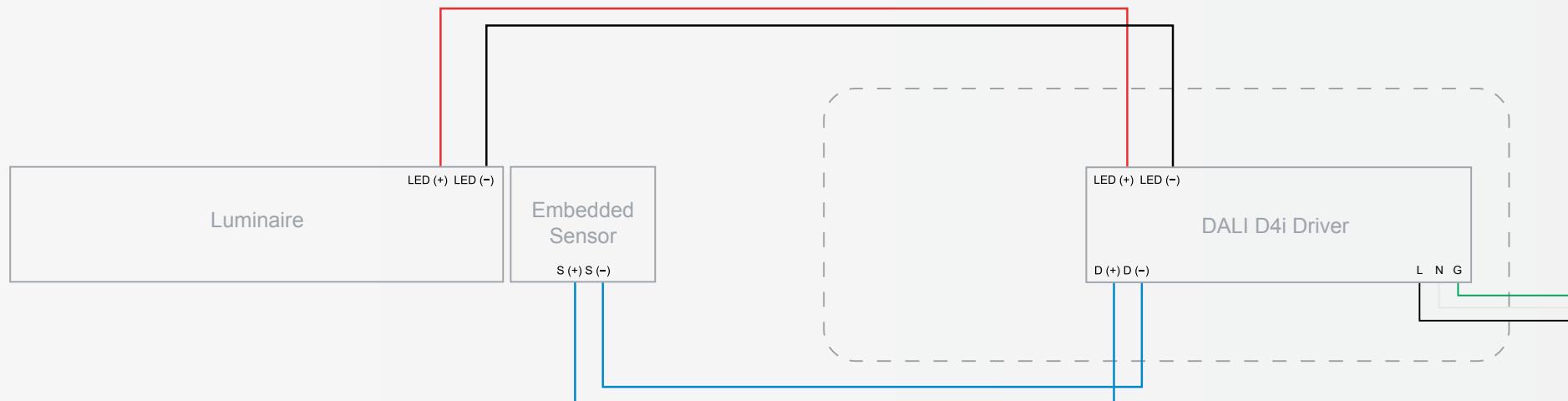
A

0-10V driver with AUX, no control unit



B

DALI D4i driver without control unit



Encelium SensiLUM

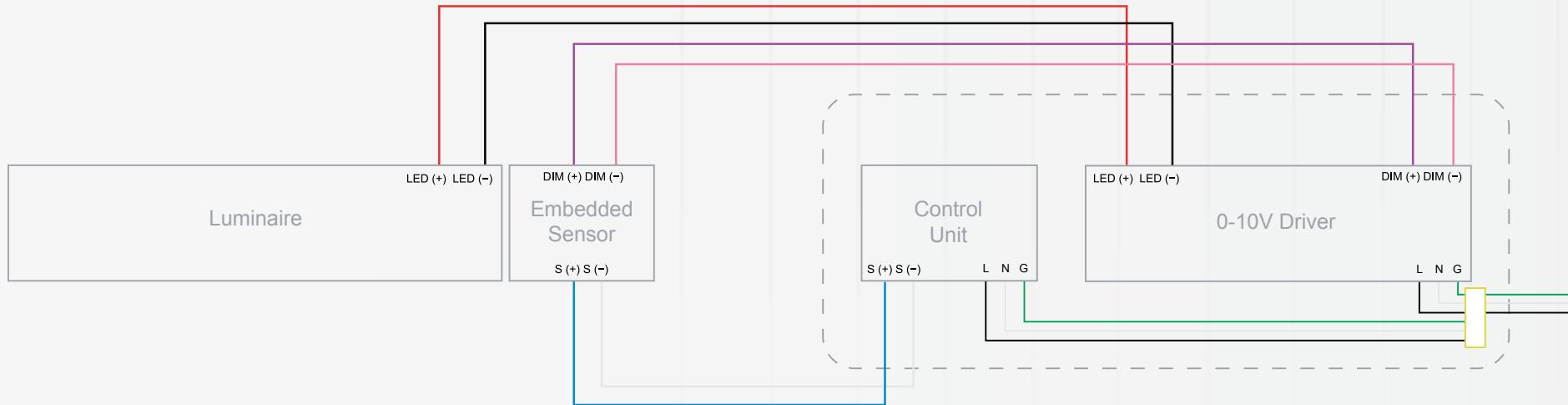
Wiring Diagrams

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ENCELIUM

C

0-10V driver with control unit



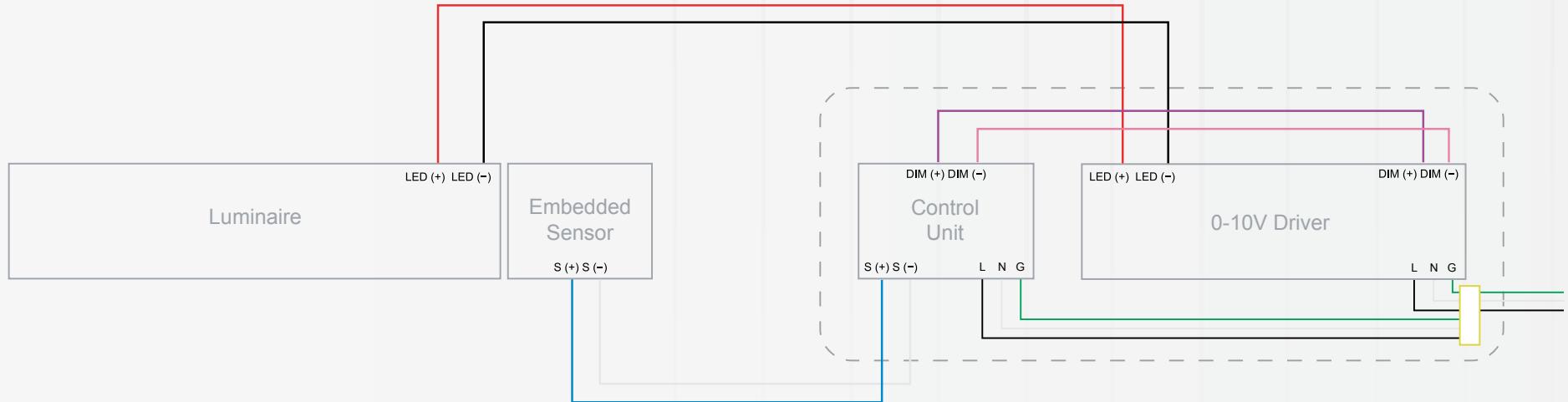
Legrand Wattstopper

Wiring Diagrams

vodeCONNECT™

 **legrand**®

A 0-10V driver with control unit



B DALI D4i driver without control unit



Lutron Athena

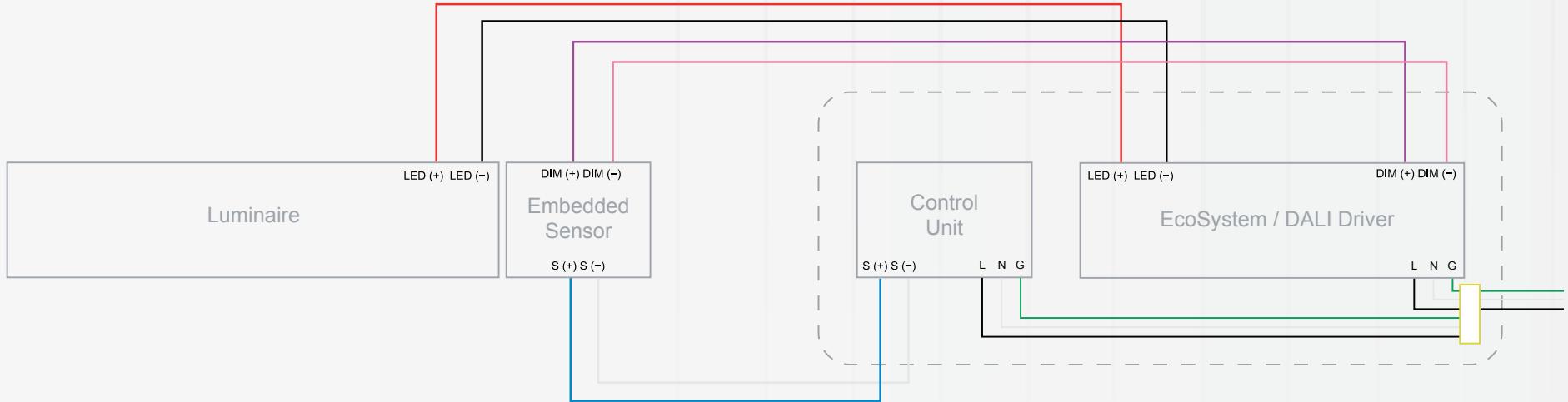
Wiring Diagram

vodeCONNECT™

LUTRON®

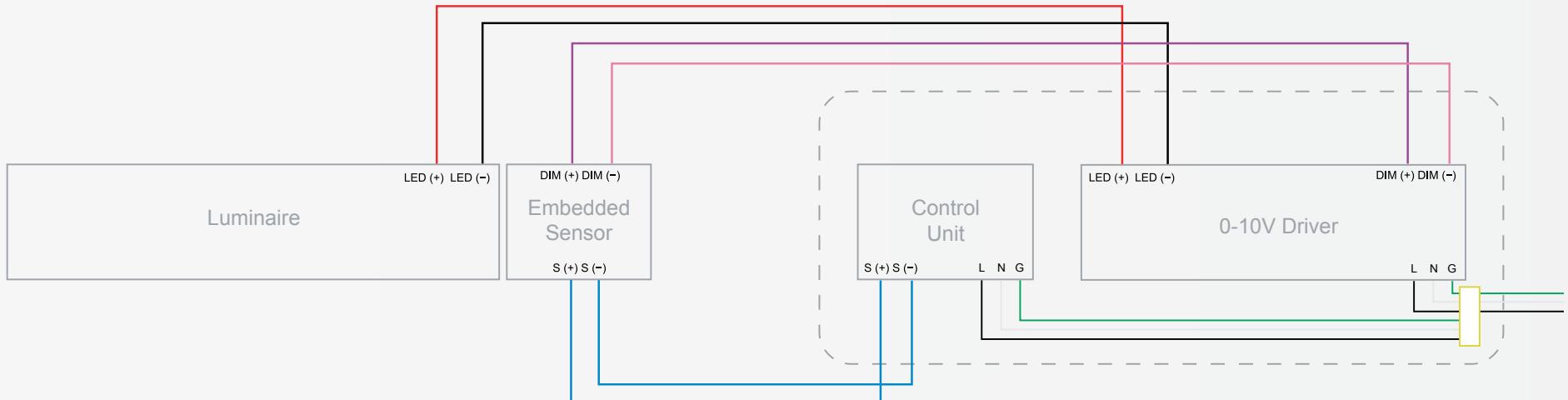
A

Lutron Ecosystem or DALI driver with control unit



B

0-10V driver with control unit



Lutron Athena

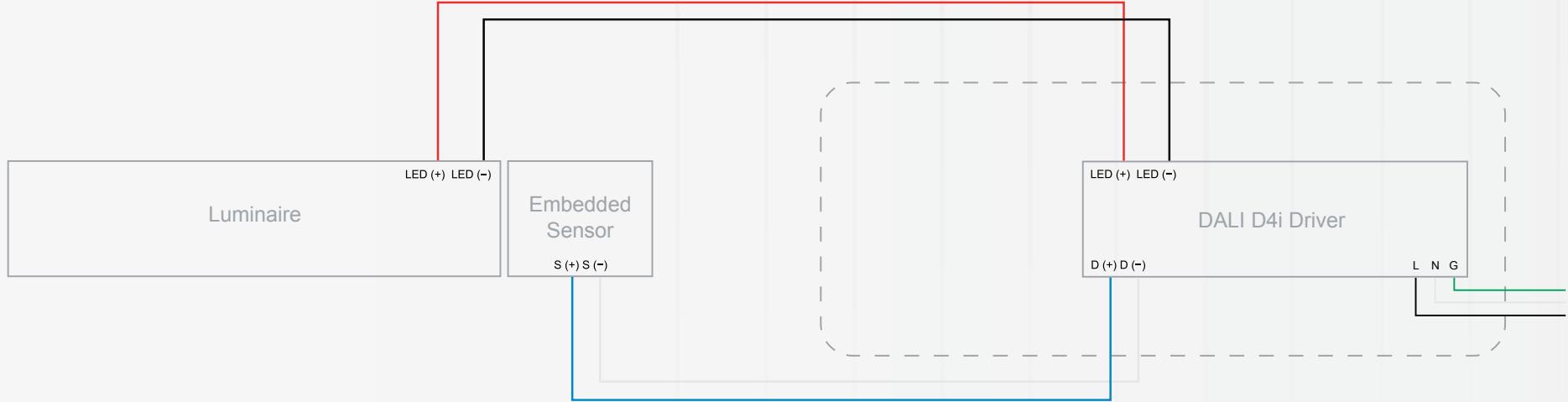
Wiring Diagrams

vodeCONNECT™

LUTRON®

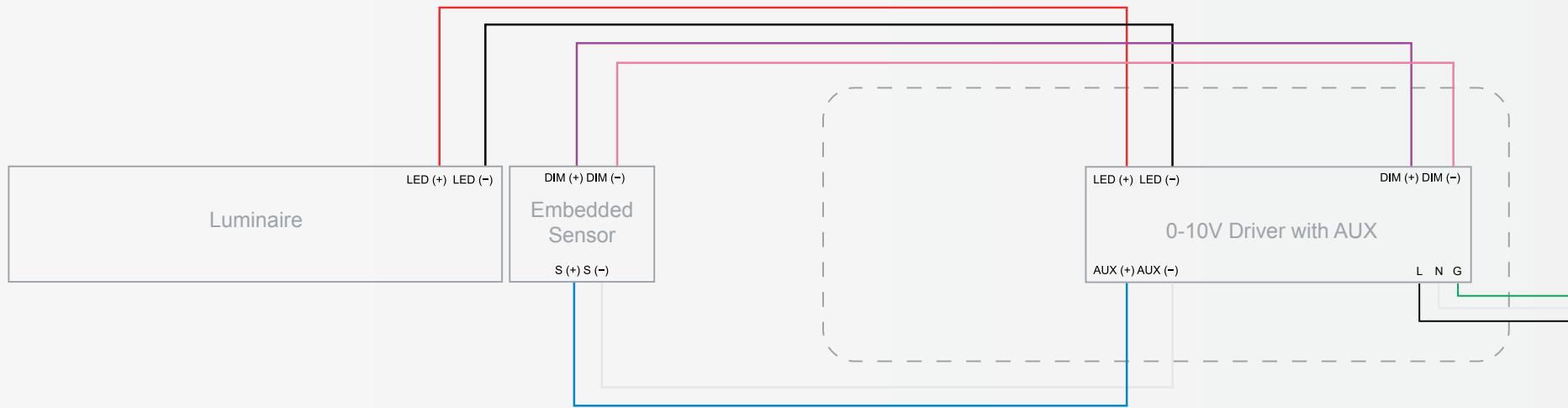
C

DALI D4i driver without control unit



D

0-10V driver with AUX, no control unit

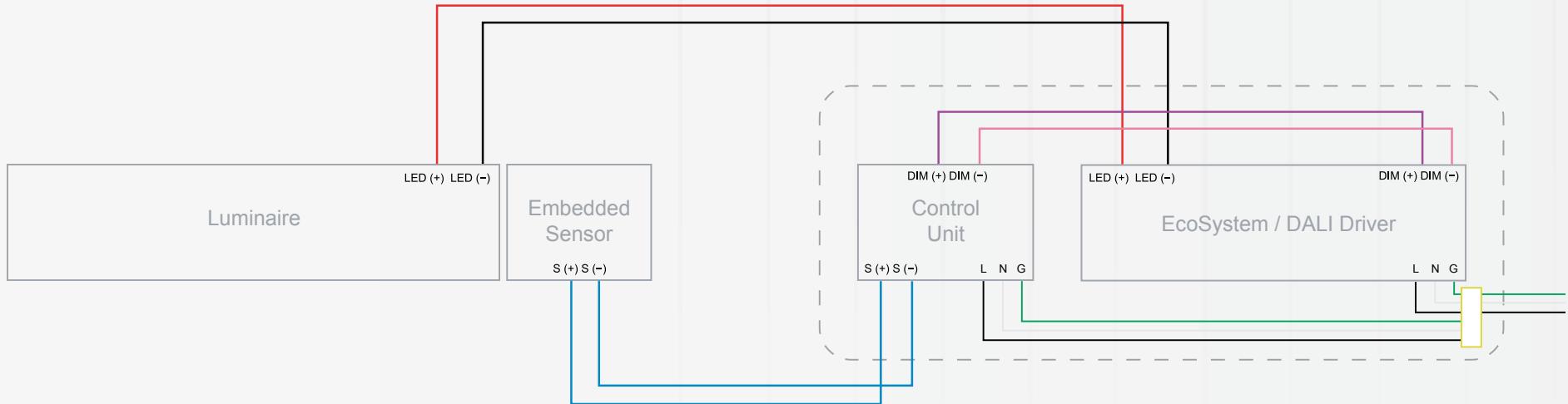


Lutron Vive

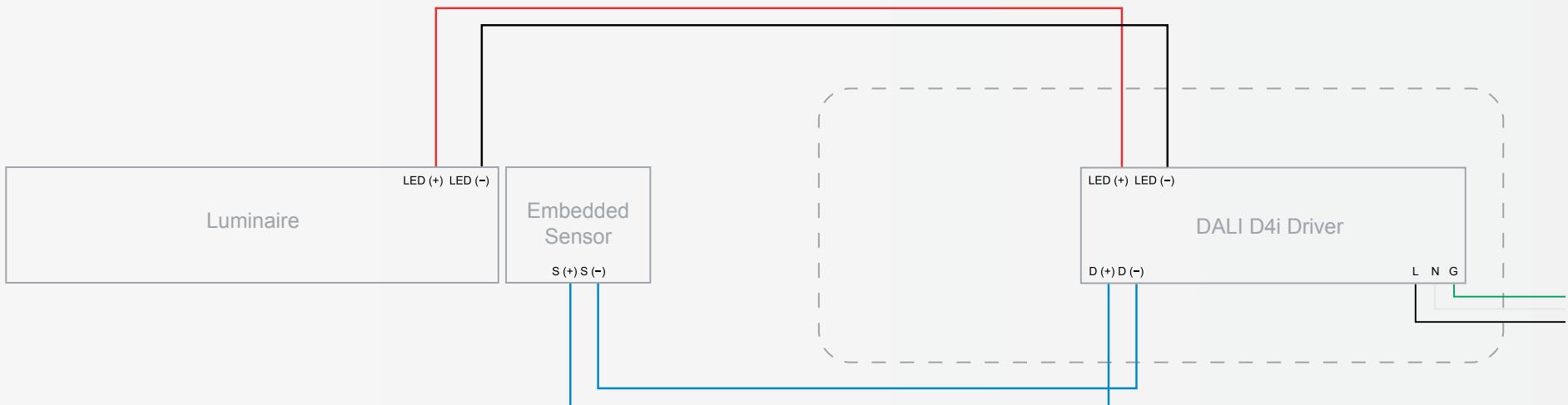
Wiring Diagram



A Lutron Ecosystem or DALI driver with control unit



B DALI D4i driver without control unit

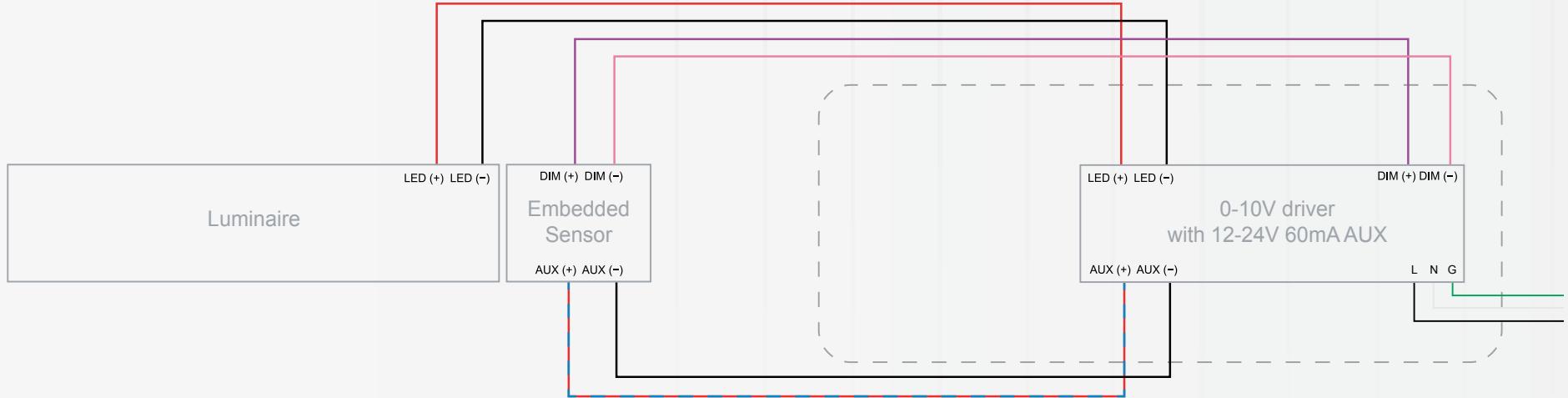


nLight Air

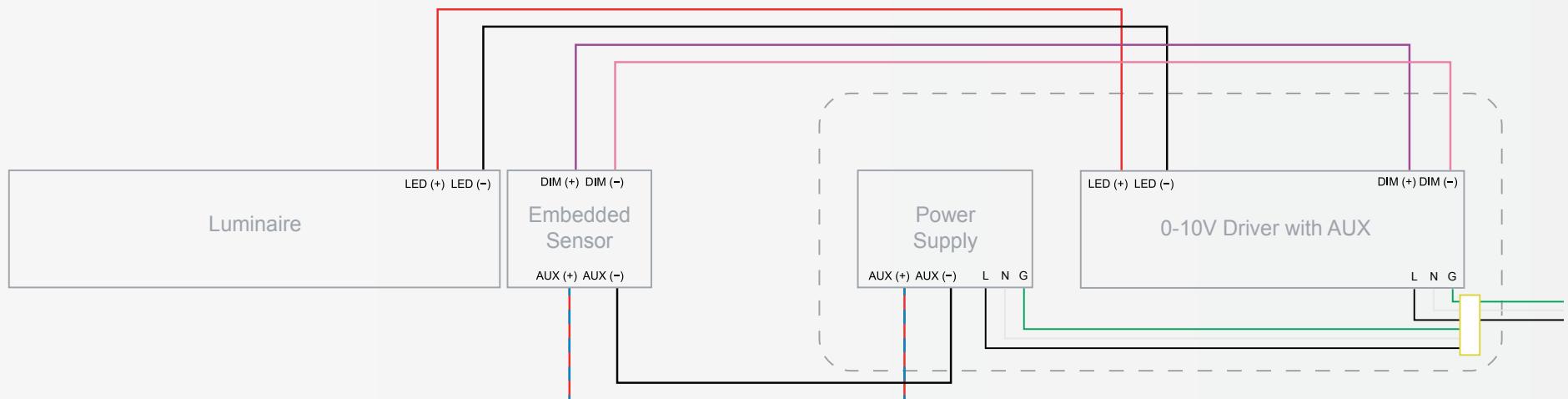
Wiring Diagrams



A 0-10V driver with AUX, no control unit



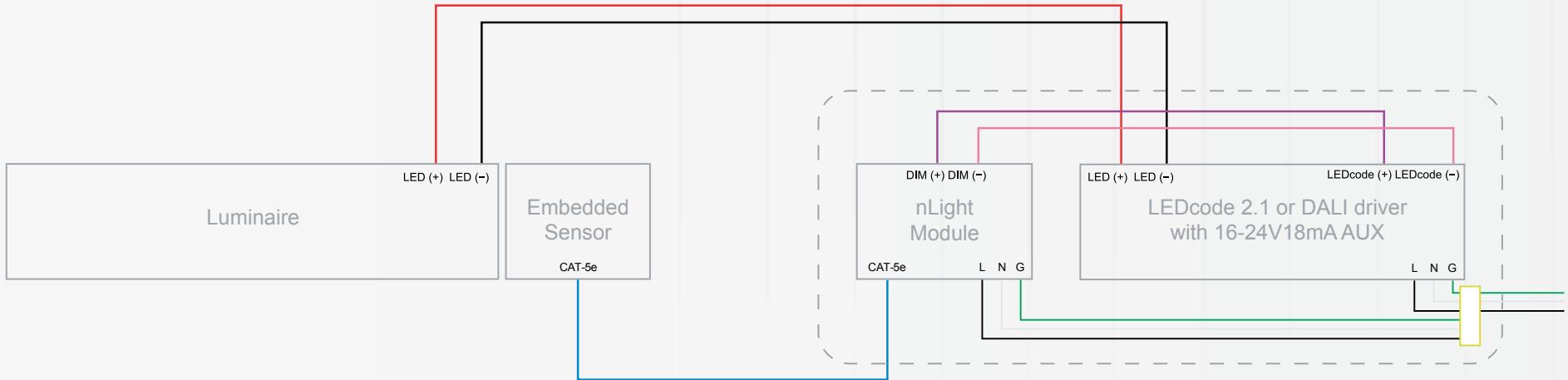
B 0-10V driver with power supply



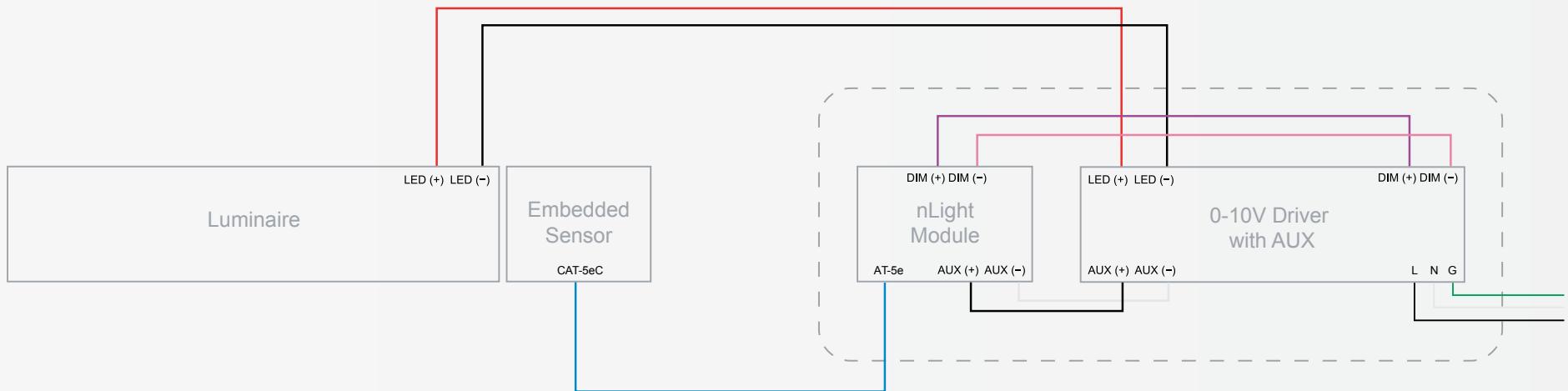
nLight Wired Wiring Diagrams



A LEDcode intensity dimming powered by driver AUX



B 0-10V intensity dimming powered by driver AUX

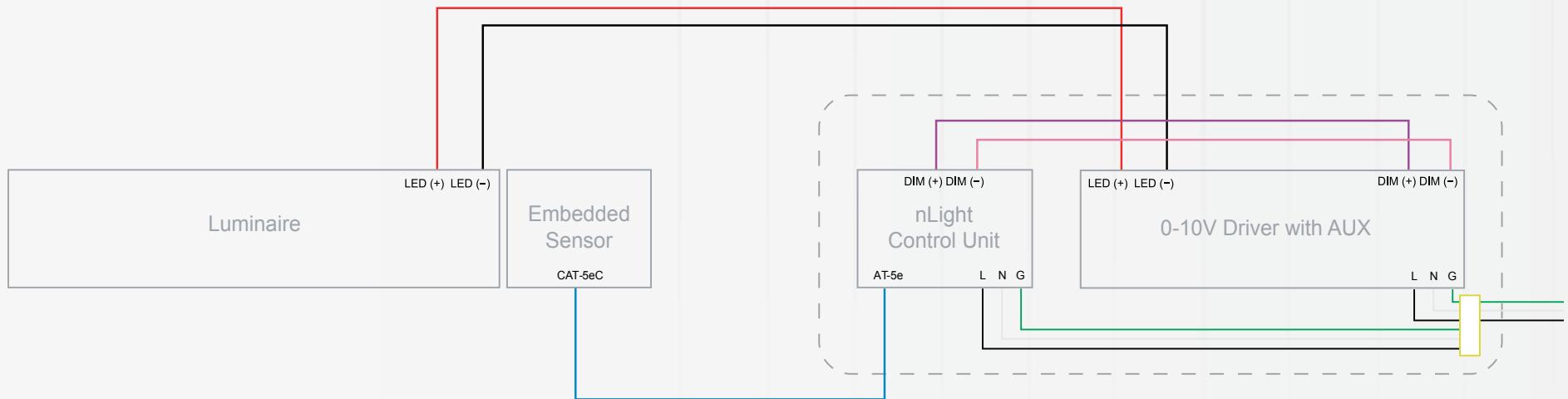


nLight Wired

Wiring Diagrams



C 0-10V driver with control unit



Sensor Facts

1. Encelium SensiLUM

- Max remote mounting distance:
 - 100ft (30.5m) with 18 AWG wire
- Max drivers per sensor:
 - 10 with 0-10V
 - 4 with DALI D4i
- Max sensors per driver:
 - 1
- Sensor input power:
 - < 1W
- Cable connection:
 - 4 conductor wire harness

2. Legrand Wattstopper

- Max remote mounting distance:
 - 100ft (30.5m) with 18 AWG
- Max drivers per sensor:
 - 1 with DALI D4i
 - 8 with 0-10V
- Max sensors per driver:
 - 1
- Sensor input power:
 - < 1W
- Cable connection:
 - 2 conductor wire harness
- Notes:
 - Stand-alone functionality

3. Lutron Athena

- Max remote mounting distance:
 - 100ft (30.5m) with 18 AWG wire
- Max drivers per sensor:
 - 5
- Max sensors per driver:
 - 1
- Sensor input power:
 - < 1W
- Cable connection:
 - 4 conductor wire harness
- Notes:
 - Each Athena wireless node should be installed within 25ft (7.6m) of two or more Athena wireless nodes or other Clear Connect – Type X devices.

4. Lutron Vive

- Max remote mounting distance:
 - 60ft (18.3m) with 18 AWG wire
- Max drivers per sensor:
 - 2 with Optitronic self-power
 - 4 with power pack
- Max sensors per driver:
 - 1
- Sensor input power:
 - < 1W
- Cable connection:
 - 2 conductor wire harness
- Notes:
 - Stand-alone functionality

5. nLight Air

- Max remote mounting distance:
 - 9ft (2.7m) with LEDcode
 - 100ft (30.5m) with AUX
- Max drivers per sensor:
 - 1
- Max sensors per driver:
 - 1
- Sensor input power:
 - < 1W
- Cable connection:
 - 4 conductor wire harness
- Notes:
 - Does not support tunable white or dim-to-warm

6. nLight Wired

- Max remote mounting distance:
 - 100ft (30.5m) with Cat 5e cable
- Max drivers per sensor:
 - 1 with driver power
 - 37 with power pack
- Max sensors per driver:
 - 1 with driver power
 - 13 with power pack
- Sensor input power:
 - < 1W
- Cable connection:
 - Cat 5e cable

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