

Date _____ Specifier _____ Project _____ Type _____

LIGHT MANAGER

The only flicker-free and silent premium lighting system driver

Built-in dimmer, on/off switch and power monitoring

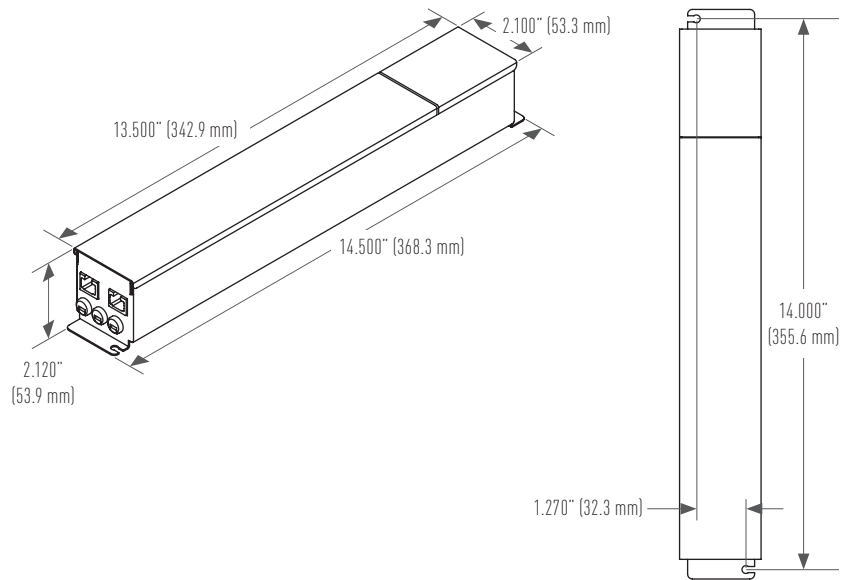
Drivers link together forming light control and management groups

Application



Physical

General dimensions



Construction

Robust 25GA galvanized steel

Weight

24V model 2.75 lbs (1250 g)
 12V model 2.22 lbs (1006 g)

Operating ambient temperature

0 °C to 40 °C



Electrical

LM-24V.100W-....

Mains input
120-240 VAC (50/60 Hz) w/ slider switch
120-277 VAC (50/60 Hz) w/ rocker switch

Constant Voltage
24 VDC

Max Output current
4.16 A

Output Power Capacity
100 W (93 W, max thermal derating)

Control technology
0-10V, for other(s) see Accessories

Control features
1% dimming with Dim-to-Off and Smooth StartUp/ShutDown

LM-12V.60W-....

Mains input
120-240 VAC (50/60 Hz) w/ slider switch only

Constant Voltage
12 VDC

Max Output current
5.00 A

Output Power Capacity
60 W (57 W, max thermal derating)

Control technology
0-10V, for other(s) see Accessories

Control features
1% dimming with Dim-to-Off and Smooth StartUp/ShutDown

Other driver features

UL Listed Class 2 Premium Power Supply

Compliant with Title 24 and Energy Star

Luminaires req. v2.2

50 000+ hours Lifetime

85% typical efficiency

Smooth Start Ramp up/down:
1280/1090 msec.

Primary switch startup delay:
180 msec.

Overheat protection

PWM dimming, Flicker-free by IEEE 1789

Silence Guarantee with our industry leading PWM technology @30 kHz (beyond human hearing range)

Inrush Current < 26A @120 VAC, NEMA 410 compliant

Standby Power (Dim off):
2.5 W (independent of load)

Power factor

> 0.95 (max. load)

THD

< 10% (max. load)

Remote Installed

Output cable one-way distance to load.

Max recommended distances
(@80 W load / 2.5 V max. loss):

16 AWG (1.3 mm)	95 ft. (29 m)
18 AWG (1.0 mm)	60 ft. (18 m)
20 AWG (0.8 mm)	37 ft. (11 m)

Use as guidance only, see Light Manager installation instructions for complete table and details.

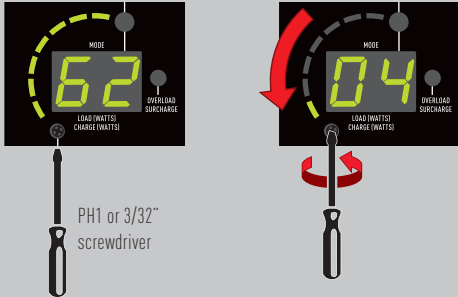
Features overview

1 WIRING COMPARTMENT
Separate wiring compartment for easy and safe installation.

2 PRIMARY POWER SWITCH
The LIGHT MANAGER is equipped with a primary on-off switch.

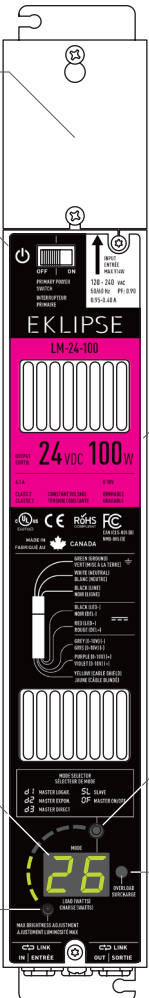
3 POWER MONITORING FUNCTION
Real-time power consumption of lighting load (in Watts) is displayed when the device is on.

4 BUILT-IN DIMMER (HIGH END TRIM)




PH1 or 3/32" screwdriver

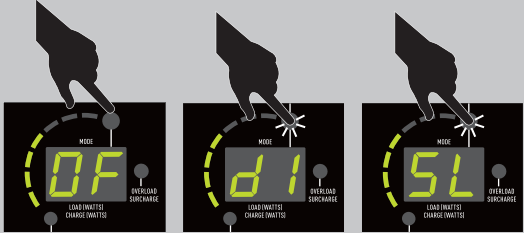
Local dimming, brightness control feature, can be adjusted using the built-in rotary switch, as illustrated above. This additional bias control only affects the local driver, leaving networked drivers in Slave mode (SL) unaffected. All drivers still follow external dimming control.



5 VOLTAGE IDENTIFICATION
A color-coded label clearly identifies the output voltage.




6 MODE SELECTOR

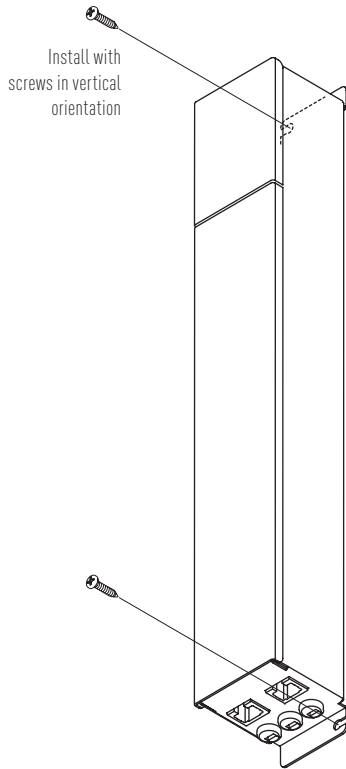


Push this button to switch the operating mode. The LIGHT MANAGER allows five modes: master ON/OFF (OF), exponential dimming (d1), logarithmic dimming (d2), linear dimming (d3) and slave mode (SL).

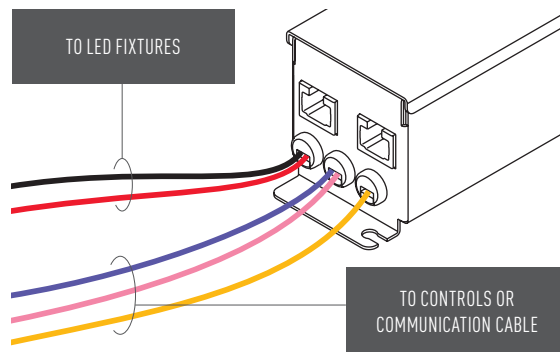
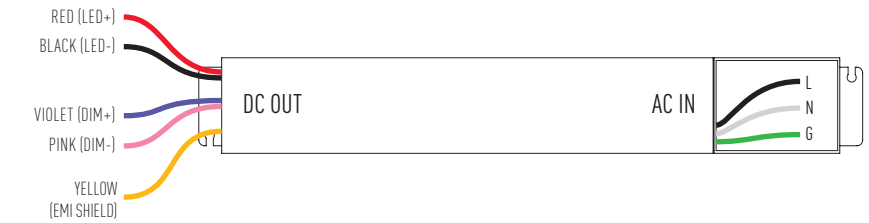
7 SELF-DIAGNOSIS
If at any moment an overload problem occurs, the red light will automatically flash and the error code will appear on the main display.



Installation overview



Wires layout



Cable Shield (yellow):

Connect to shield drain wire or braid pigtail. For use with a shielded communication cable*. If cable is standard/unshielded, do not use, cap off.

** Recommended when over 50 feet links and in noisy / electrical challenging environment or to resolve control issues/disruptions: General cable (Prysmian Group) - CA0740A, 2x 24 AWG, NEC type CMR, shield (100% coverage foil) w/ copper drain wire.*

◆ The LIGHT MANAGER can be solely operated by the **0-10V** control link: Smooth StartUp (ON), DIMmable to 1%, Dim-to-off (OFF).

◆ Its MAINS input doesn't need a switch.

◆ Class 2 Dimmer recommended (Only purple/pink wires, no mains power, see accessories).

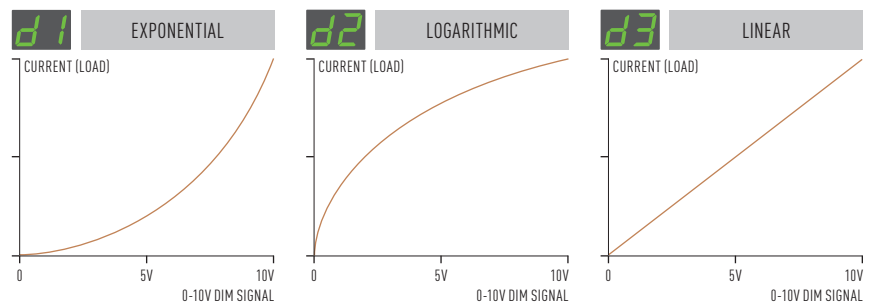
◆ Other control technologies supported (see **Dimming Control Options** section).

Dimming specifications

Start dimming	9.2V
Minimum dimming	< 1.1V
Dim-to-off threshold	0.90V
Minimum dimming level	1%
0-10V current max.	1.1 mA toward sink-type dimmers

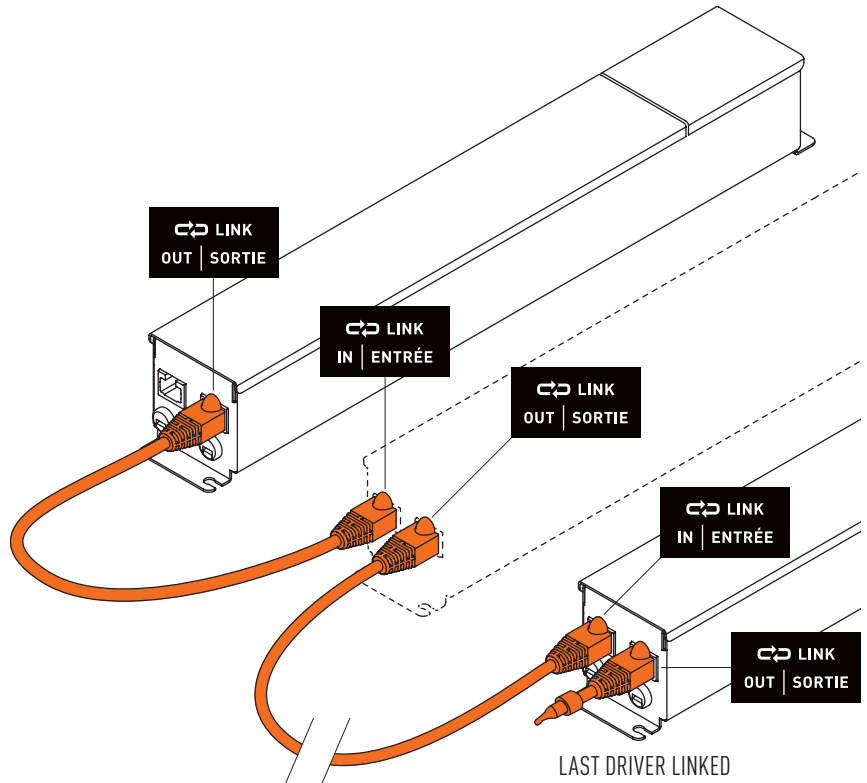
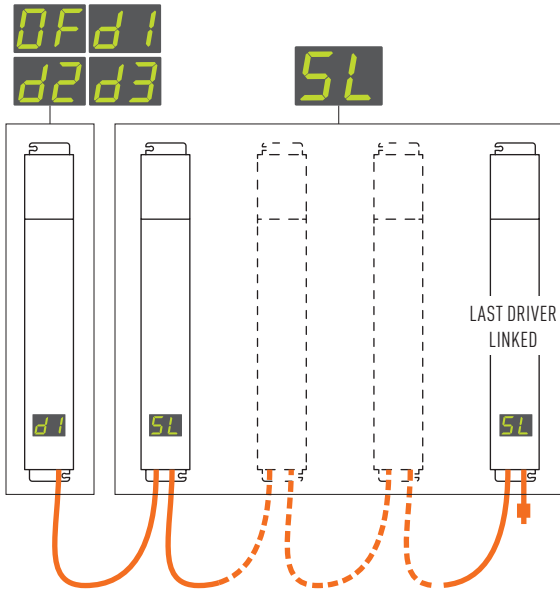
Dimming configuration

The mode selector button allows the LIGHT MANAGER to operate in direct 0-10V input using one of the three dimming curve types. Slave mode (SL) mimics the curve of its Master (d1 - d2 - d3) when network connected.

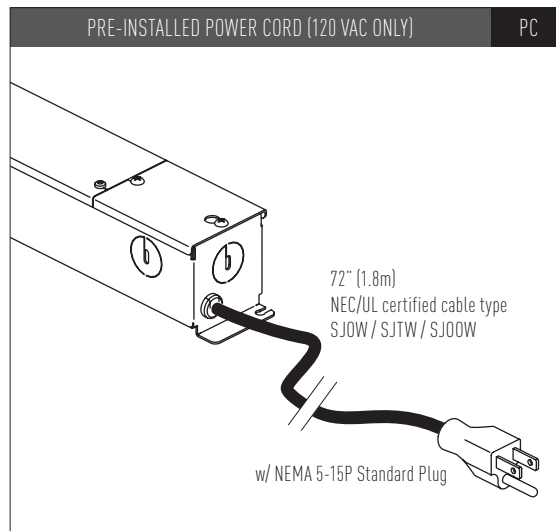
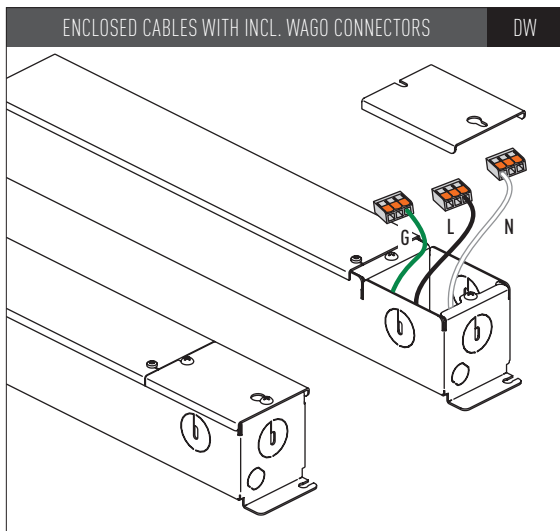


Linking multiple units

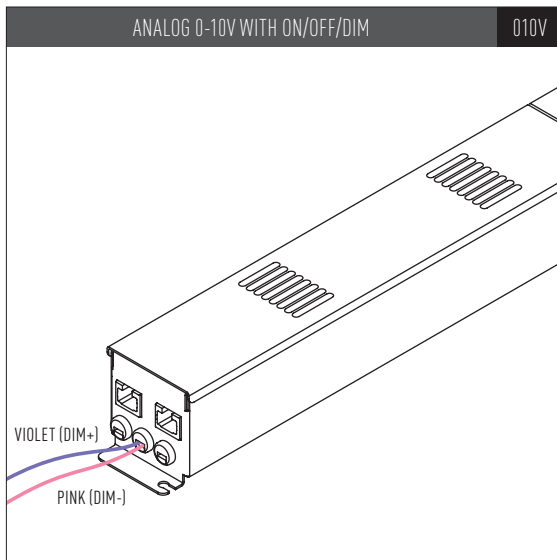
It is possible to link up to 30 LIGHT MANAGER using the supplied 12" RJ-45 cable. The first unit of the chain must be set as **Master** (select either of these 4 modes: **OF**, **d1**, **d2**, **d3**). Set following units into **Slave** mode (**SL**). For group of drivers in multiple locations on the same master control, allocate one master driver per group. Avoid long network cable link to keep units in sync.



Wiring options

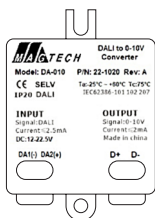


Dimming control options



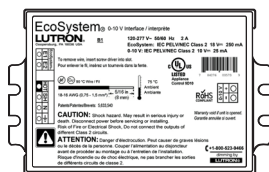
Accessories

DALI to 0-10V converter CVR-16V-DALI-010V-LM



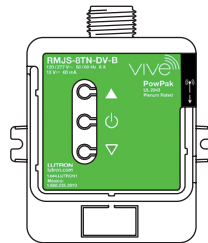
Communication protocol converter between DALI (input) and 0-10V (output toward driver). As an accessory the part is standalone: no mounting tape, no wires, no connectors. Only one device per driver. Requires 3 mA allocation from DALI network supply to operate.

Lutron Ecosystem to 0-10V converter CVL-UNV-ECO-010V-LUT-TVI



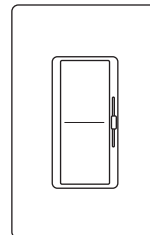
Lutron's Ecosystem to 0-10V converter. Ordered as standalone accessory to control multiple drivers in different locations. To be LISTED, must be mounted into/onto a junction box. Possible mounting plate if needed, discuss installation with customer care / engineering.

Lutron Wireless to 0-10V converter CVL-UNV-LUCC-010V-LUT-RMJS



Enables wireless controls of multiple 0-10V drivers in remote locations by centrally mounting this receiving device into room. Supports Lutron's Pico Wireless Remote Controllers/Dimmers. Also compatible with Lutron's Vive Wifi Technology.

Lutron Diva Dimmer DD-24V-SP-010V-GWH-LUT



Our recommended wall control for residential applications. This Lutron Diva Class 2 low voltage dimmer is conveniently self-powered through 0-10V link only, thus no mains wiring. Dimming range customized with Low/High End trims.

LIGHT MANAGER ordering code

PRODUCT		CORE OPTIONS		
ID	OUTPUT	INPUT	WIRING	CONTROL
LM	24V.100W	120	DW	010V
		240	PC	
		277		
	12V.60W	120	DW	
		240	PC	

DW
Default wiring, wires with WAGO 221 enclosed

PC
Pre-installed 120 VAC power cord (NEMA type 5)

120, 240
Slider switch model, supports 120-240 VAC

277
Rocker switch model that supports universal mains input 120-277 VAC

ORDERING CODE **EXAMPLE**

LM - 24V.100W - 120 - DW - 010V

ORDERING CODE

ORDERING CODE

ORDERING CODE

ORDERING CODE

Accessories ordering code

DALI to 0-10V converter

CVR 16V DALI 010V LM

ORDERING CODE

ORDERING CODE

ORDERING CODE

Lutron Ecosystem to 0-10V converter

CVL UNV ECO 010V LUT TVI

ORDERING CODE

ORDERING CODE

ORDERING CODE

Lutron Wireless to 0-10V converter

CVL UNV LUCC 010V LUT RMJS

ORDERING CODE

ORDERING CODE

ORDERING CODE

Lutron Diva Dimmer

DD 24V SP 010V GWH LUT

ORDERING CODE

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Warranty

Our products and related parts are guaranteed for **three (3) years**. See our terms and conditions on www eklipselighting.com