LineLED X18X2-RGBW | Dynamic Color, RGBW - 24 VDC

optic arts by luminii

Features

LLX18X2-RGBW is a high performance flexible LED fixture suitable for use in coves, under cabinets, in shelves, and virtually anywhere a linear fixture is required.
Standard Colors/Color Temperatures: RGBW and RGBA.
LLX18X2-RGBW is dimmable via DMX.

Mounting
LLED strip is equipped with 3M™ adhesive transfer tape (9472LE).

Applications
Indoor only - millwork, cove, architectural reveals, undercabinet, display case, handrail, accent lighting.

Approvals
Class 2 damp listed

Operating voltage
24 VDC

Average Life (L70)
50,000 hours

Warranty
7 years

Declare.
RoHS LM80
ETL Intertek DIM Single Bin +/- 30 CCT

RGBW

Technical information

TYPE	LLX18X2-RGBW
OUTPUT OPTIONS	**RGB+3000K**
Lumens Output (all channels full on)	438 lm/ft
Average Power Consumption (for a 4' section)	8.8 W/ft
Efficacy	59 lm/W
Cutting Increment	3.94"
Pitch Length	0.66"
Max Run Length (in series)	10 ft
Dimensions	0.79" W x 0.10" H
Ambient Operating Temperature Range*	-5°F – 85°F (- 20°C – 30°C)

*Ambient Operating Temperature Range to maintain L70 of 50K+ hours in normal conditions. Exceeding Ambient Operating Temperature Range may result in decreased life/output. Consult Technical Support for specific inquires.

RGBW (3000K)

Tape	TM-30			
	CRI	R_f	R_g	R_9
LLX18X2-RGBW	93	91	99	64

Dominant Wavelength

Color	RGB/RGBW
Red	621nm
Green	519nm
Blue	465nm

Section Start/End Options

SL
Soldered lead wires (72")

0.79"   3.94"   72.0"

LF
Lead Female 3" cable

0.79"   3.94"   3.00"
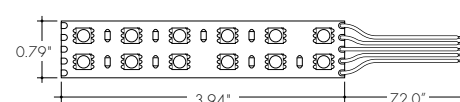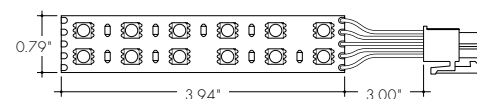
LM
Lead Male 3" cable

0.79"   3.94"   3.00"

NC
No connector

0.79"   3.94"
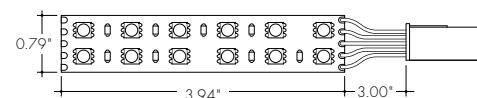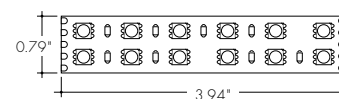
Ordering Code

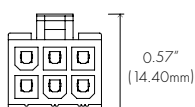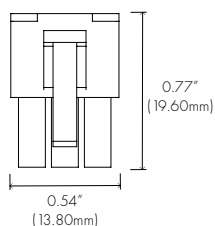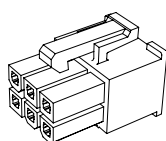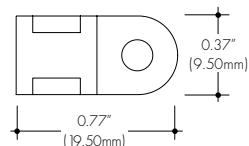| MODEL	COLOR	SECTION START	SECTION END	LENGTH
LLX18X2-RGBW	30K - RGB with 3000K	F - Female connector M - Male connector SL - Soldered lead wires (72") NC - No connector	F - Female connector M - Male connector SL - Soldered lead wires (72") NC - No connector	View specs above for increment options and maximum run limits.

Accessories

LC-I5P-M

Indoor Lead Connector (Male)

0.94"
(23.90mm)

0.51"
(13.00mm)

0.46"
(11.60mm)
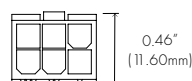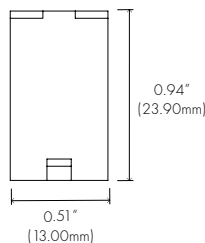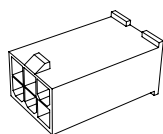
LC-I5P-F

Indoor Lead Connector (Female)

0.77"
(19.60mm)

0.54"
(13.80mm)

0.57"
(14.40mm)

LL.ZIP

Strain Relief Clip

0.37"
(9.50mm)

0.77"
(19.50mm)

0.19"(4.90mm)
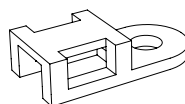
LO-18G-5C-W-72

6' (1.8M) wire lead (not in-wall rated)
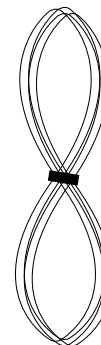
Accessories

CL2
Mounting clip

0.20"
0.07"
0.60"
1.25"
0.23"
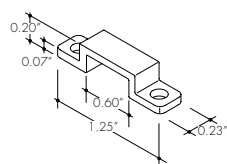
Recommended every 12" when LineLED strip is facing down

LVSP-4T-BK
Low Voltage, 4 Terminal Splice Box, Black, IP20

0.90"
3.00"
1.90"
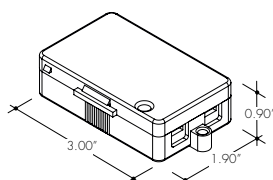
LL.ZIP
Cable/Wire Strain Relief Clip

0.19"
0.37"
0.77"

zip tie included

4.25"
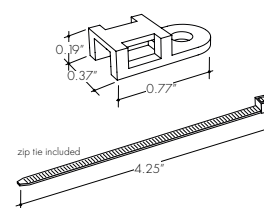
MOLEX-CON-LEAD-M-4-48
Molex Male Connector Cable, 4 pin, 48"

48.0"

Male QC
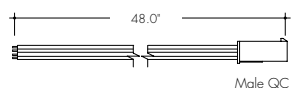
For power supply connection, not intended to be soldered to LED strip

MOLEX-CON-LEAD-F-4-48
Molex Female Connector Cable, 4 pin, 48"

48.0"

Female QC

For power supply connection, not intended to be soldered to LED strip

MOLEX-JC-F-M-4-48
Female/Male Jumper Cable, 4 pin, 48"

48.0"

Female QC   Male QC
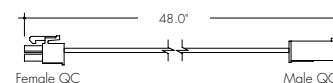
For connecting LED strips in series

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Lens Options / Light Transmission

LIN CHANNEL -LINC

(Link to Web)

Linii GDS
4.00"
0.55"
0.80"

Linii DHS
3.10"
0.55"
0.80"

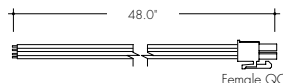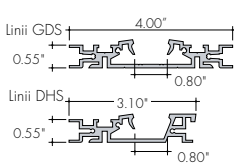| Lens	Frosted	Frosted Silicone	No Lens
Transmission %	48%	56%	82%
Dotting*	SD	SD	CD

*At 100% brightness

Installation

All mounting channels are field cuttable using miter saw with circular blade suitable for cutting aluminum.

Ordering

Extrusions are sold separately. View respective specsheets for details on ordering extrusions and their accessories (endcaps, mounting brackets, etc).

Led Dotting Reference

Use complete Dotting Chart Tool online for more dotting information

Dotting Chart Tool

I'm also click-able

CD - Clear Dotting   **SD** - Slight Dotting   **ND** - No Dotting

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Power Supplies

See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.

For use with RGB/RGBW

Ordering Code - Universal Dimming Power Supplies 0.1% 120VAC - 277VAC

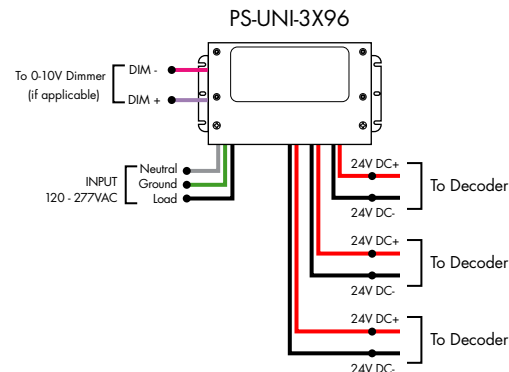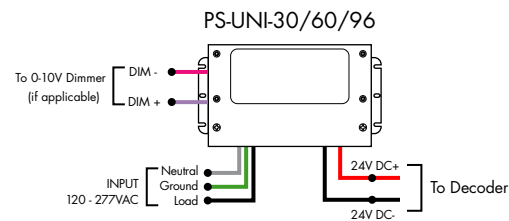| MODEL	INPUT CONTROL	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	UNI - 0-10V Dimming (0.1%), Phase Dimming (0.1%)	30 - 30 Watts 60 - 60 Watts 96 - 96 Watts 3x96 - 3x96 Watts	24 - 24 VDC

MODELS	PS-UNI-30W	PS-UNI-60W	PS-UNI-96W	PS-UNI-3X96W
Length	6.50"	7.40"	8.66"	11.85"
Width	3.73"	3.73"	3.73"	4.32"
Depth	1.61"	1.61"	1.61"	1.81"

REQUIRES A CONTROLLER AND A DECODER TO WORK PROPERLY
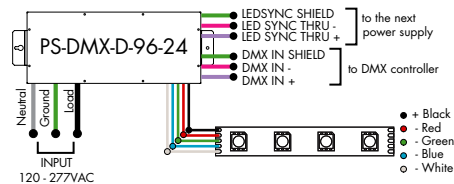
PS-UNI-30/60/96

PS-UNI-3X96

For use with RGB/RGBW

Ordering Code - DMX Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	DMX - DMX (0.1%)	D - Dry	96 - 96 Watts 3X96 - 3X96 Watts	24 - 24 VDC

MODELS	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.56"

DMX CABLES
(FOR DMX CABLES, USE BELDEN 9829, 9842 OR CAT5 SHIELDED TWISTED PAIR CABLING OR EQUIVALENT)

PS-DMX-D-96-24

PS-DMX-D-3X96-24
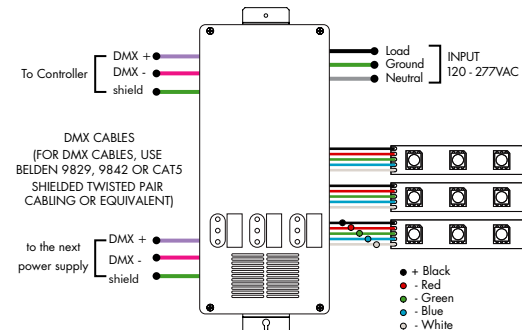
For use with RGB/RGBW/Pixel

Ordering Code - Non-Dimming Power Supply 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - PSV Series	ND - Non Dimming	D - Dry	96 - 96 Watts	24 - 24 VDC

MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"
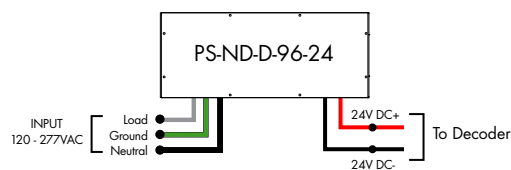
PS-ND-D-96-24

REQUIRES A CONTROLLER AND A DECODER TO WORK PROPERLY

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Controllers and Decoders

For use with Tunable White, RGB/RGBW Power Supplies

Translates controller DMX512 programs for RGB and white LED strips.

Unique DMX address for the decoder can be set easily and displayed by the numeric display on the case. Changing and resetting the DMX address requires manual input.

Use power repeater to expand output.

Operating Voltage

12-36 VDC

Power Capacity

up to 96W at 24V

Operating Temperature Range

from -4°F to +122°F in case

ORDERING CODE

MODEL

DDMX-RGBW

DDMX-RGBW - DMX decoder

The RGBW receiver is easily paired with controller by the click of a button. Receiver can be reset to factory settings at any time.

Each receiver can store one static RGB color, one color sequence, and one brightness setting for the white LED strip. Receivers assigned to the same scene within the same zone will have the same LED static color and color sequence.

Operating Voltage

12-36 VDC

Power Capacity

up to 96W at 24V

Operating Temperature Range

from -4°F to +122°F in case

ORDERING CODE

MODEL

RGBW-RC-R

RGBW-RC-R - RGBW receiver

Extends identical signal when connected in series to an RGBW LED control system. The RGBW signal repeater works with Luminii RGB and RGBW controllers, receivers, and decoders.

RGBW signal can be extended indefinitely when adequate power supply (not included) is connected to the system.

Operating Voltage

12-36 VDC

Power Capacity

up to 96W at 24V

Operating Temperature Range

from -4°F to +122°F in case

ORDERING CODE

MODEL

RGBW-SR

RGBW-SR - RGBW signal repeater

Controllers and Decoders

For use with RGB/RGBW Power Supplies

Easy to operate wireless interface suitable for static or color changing scenes. Control 4 different color zones separately or at the same time. RGBW receiver (RGBW-RC-R) required for operation. Assign multiple receivers per zone to cover a large area.

Color wheel enables highly stable and sensitive color control functionality. Create your own color changing sequences with ease and flexibility.

Power

qty 3 AAA batteries
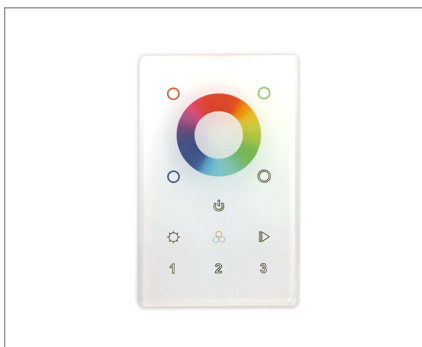
Scenes

up to 4 unique zones

Signal

Wireless (RF)

Energy Saving

Deactivates after 10 seconds of inactivity

Color Parameters

- Brightness
- Saturation
- Primary colors
- Speed of color changing sequence
- Fading

ORDERING CODE

MODEL

RGBW-MC3

RGBW-MC3 - 4-zone RGBW controller

DMX /Wireless RGB-W wall-mount controller controls DMX lighting fixtures, wireless control of RGB-W lighting fixture or use both simultaneously. Fits in any standard US switch box. Includes all the outputs in the back of the controller.

Control brightness levels with a single touch, personalize and memorize 3 different scenes, and even create 3 variations of white.

Features

- 2 in 1 in-Wall Controller: DMX Control or Wireless RGB-W
- 65,000 Color Options, Dimming and Speed Control
- Memory Function
- 50 Foot Wireless Range
- Easily Fits Standard US Switch Boxes
- Touch Sensitive Glass Surface
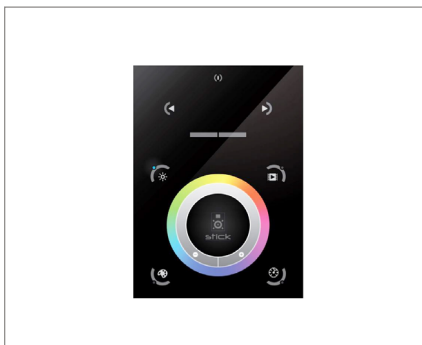- Includes 10 Built in Programs, or Create and Play Your Own

Operating Voltage

12 - 24V DC

Color Parameters

- Brightness
- Saturation
- Primary colors
- Fading
- Color changing speed

ORDERING CODE

MODEL	ZONES	COLOR
	-	-

DMX - DMX Controller

3Z - Three Zone
1Z - One Zone

RGBW - Red, Green, Blue, & White

For use with Tunable White, RGB/RGBW, Pixel Power Supplies

Programmable advanced DMX512 lighting controller featuring a touch-screen interface. Operates as stand alone controller or integrated with most architectural lighting control systems. Can controller endless DMX512 enabled devices.

Mounts to standard single or dual gang wall box with the included power supply inside the junction box. Terminal block design for power and data connections.

Features

- Sleek glass design which sits 0.43" from the wall
- Graphical color display to show selected environment
- Color/dimmer/speed palette
- Color temperature mixing
- Touch sensitive buttons. No mechanical parts
- Touch sensitive wheel allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control

Power Supply

7 VDC (included)

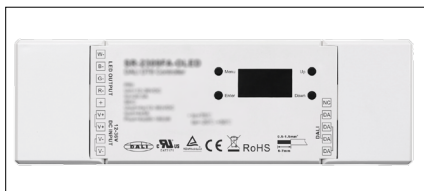**Programmability**

PC, Mac, Tablet, Smartphone

Output Signal

DMX512 (1024 channels)

Color Parameters

- Brightness
- Saturation
- Speed of color changing sequence
- Fading / dimming / brightness

ORDERING CODE

MODEL

TSDMX-E

TSDMX-E - Touchscreen DMX controller

Controllers and Decoders

For use with Tunable White, RGB/RGBW Power Supplies

ORDERING CODE

MODEL

DALI2-DT8-RGBW

DALI2-DT8-RGBW - DALI-2 RGBW Decoder

A 4-channel DALI2 DT8 decoder designed to control RGB, RGBW, and TW LED fixtures, featuring adjustable color temperature and customizable lumen output.

Voltage/Frequency
12-36VDC

Max Output Power
4 output channels, 60-180W each

Max Output Current
4 output channels, max of 5A each

Ambient Operating Temperature Range
-20 to 50°C

Environment
Dry (IP20)

ORDERING CODE

MODEL

DDMX-5CH-RDM-PRO

DDMX-5CH-RDM-PRO - DMX512 Decoder

DMX512 decoder with RDM functionality features 5 PWM output channels with common anode. High PWM output frequency range allows the product to be used in HD video conferencing spaces.
All DMX products to be installed per DMX512 Standard.

Power
96 Watt

Inputs
RJ45, XLR-5Pin, Terminal Block

DMX Channels
1 to 5 settable

PWM Output Resolution Ratio
8 or 16 bit

PWM Output Frequency
500Hz - 30KHz

Output Dimming Curve Gamma Value
0.1 ~ 9.9

ORDERING CODE

MODEL

RGBW-WI-R

RGBW-WI-R - WIFI generator

RGBW-WI-R creates a local network that enables any electronic device (phone, tablet, etc.) to control the RGB/W strip connected to a RGBW-RC-R receiver.

The control functions are achieved through a free application download for Android and iOS devices called REALCOLOR.

Operating Voltage
12-36 VDC

Power Supply
PI-130-24 (included)

Operating Temperature Range
from -4°F to +122°F in case