RGBW

## 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 Intertek DIM Single Bin +/- 30 CCT

## 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)**

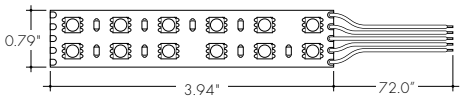
| Tape | TM-30 | | | |
|---|---|---|---|---|
| | CRI | $R_f$ | $R_g$ | $R_9$ |
| LLX18X2-RGBW | 93 | 91 | 99 | 64 |

**Dominant Wavelength**

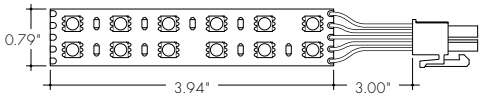
| Color | RGB/RGBW |
|---|---|
| Red | 621nm |
| Green | 519nm |
| Blue | 465nm |

### Section Start/End Options

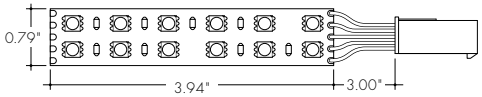
**SL**
Soldered lead wires (72")



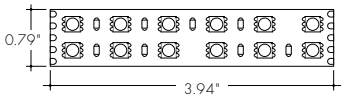

**LF**
Lead Female 3" cable




**LM**
Lead Male 3" cable




**NC**
No connector



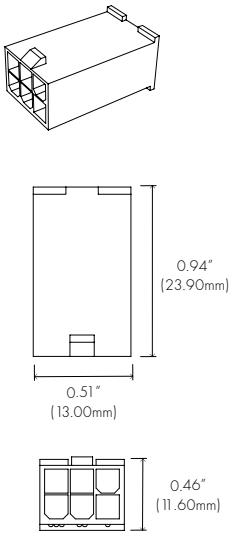

## Ordering Code

| MODEL | COLOR | SECTION START | SECTION END | LENGTH |
|---|---|---|---|---|
| LLX18X2-RGBW | 30K - RGB with 3000K | F - Female connector<br>M - Male connector<br>SL - Soldered lead wires (72")<br>NC - No connector | F - Female connector<br>M - Male connector<br>SL - Soldered lead wires (72")<br>NC - No connector | Lengths specified to the inch; ordering code rounded up to one-foot increments.<br><br>See chart above for max run length |

## Accessories

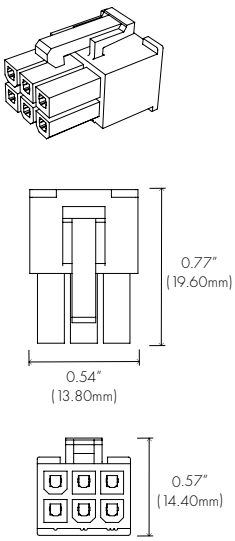
### LC-I5P-M

*Indoor Lead Connector (Male)*



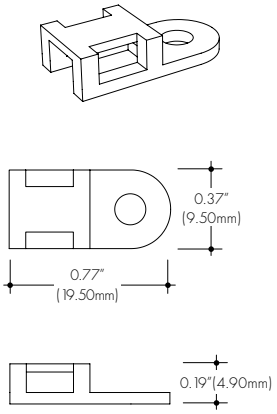

### LC-I5P-F

*Indoor Lead Connector (Female)*



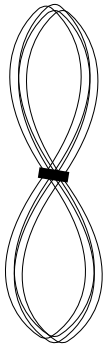

### LL.ZIP

*Strain Relief Clip*



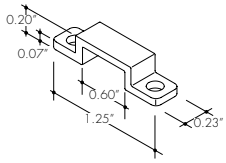

### LO-18G-5C-W-72

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



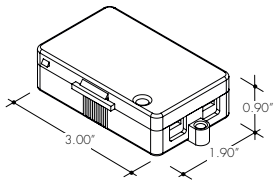
## Accessories

**CL2**
Mounting clip

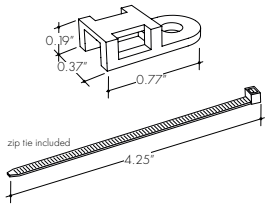



Recommended every 12" when LineLED strip is facing down

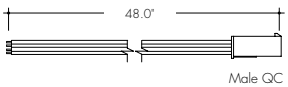
**LVSP-4T-BK**
Low Voltage, 4 Terminal Splice Box, Black, IP20




**LL.ZIP**
Cable/Wire Strain Relief Clip

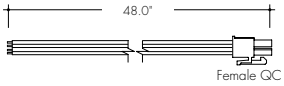



**MOLEX-CON-LEAD-M-4-48**
Molex Male Connector Cable, 4 pin, 48"



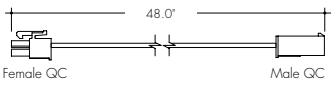

For power supply connection, not intended to be soldered to LED strip

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




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"

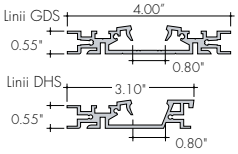



For connecting LED strips in series

## Lens Options / Light Transmission

**LIN CHANNEL -LINC**

(Link to Web)




| Lens | Frosted | Frosted Silicone | No Lens |
|---|---|---|---|
| **Transmission %** | 48% | 54% | 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

## 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

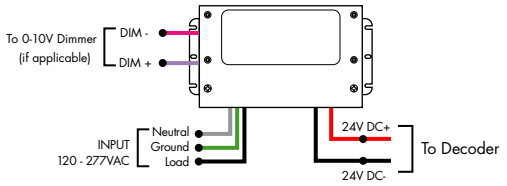
#### Ordering Code - Universal Dimming Power Supplies 0.1% 120VAC - 277VAC

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

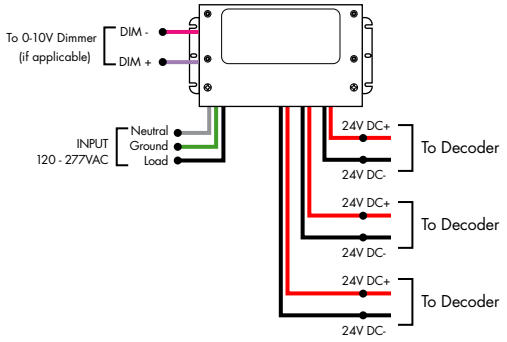
| MODELS | PS-UNI-30W | PS-UNI-60W | PS-UNI-96W | PS-UNI-3X96W |
|---|---|---|---|---|
| Length | 6.50" | 7.40" | 8.66" | 11.85" |
| Width | 3.73" | 3.73" | 3.73" | 4.32" |
| Depth | 1.61" | 1.61" | 1.61" | 1.81" |

REQUIRES A CONTROLLER AND A DECODER TO WORK PROPERLY

PS-UNI-30/60/96




PS-UNI-3X96



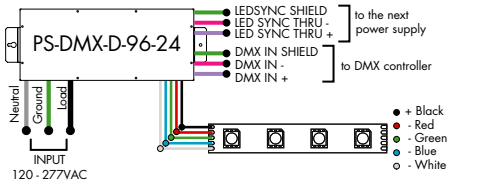

### For use with RGB/RGBW

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

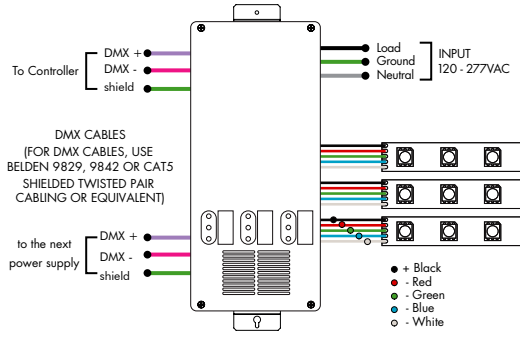
| MODEL | | INPUT CONTROL | | ENVIRONMENT | | WATTAGE | | OUTPUT |
|---|---|---|---|---|---|---|---|---|
| | - | | - | | - | | - | |
| PS - Power Supply, 120-277VAC | | DMX - DMX (0.1%) | | D - Dry | | 96 - 96 Watts<br>3X96 - 3X96 Watts | | 24 - 24 VDC |

| 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-3X96-24

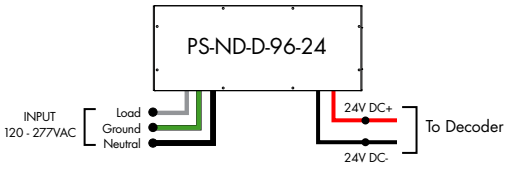



### For use with RGB/RGBW/Pixel

#### 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" |




REQUIRES A CONTROLLER AND A DECODER TO WORK PROPERLY

## 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

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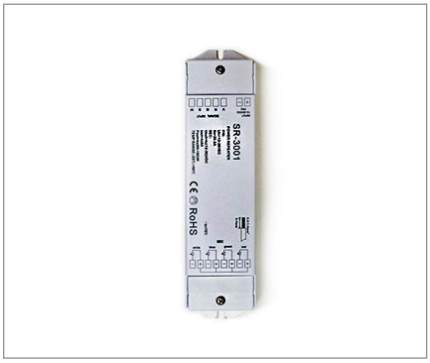



Extends identical signal when connected in series to an RGBW LED control system. The RGBW signal repeater works with Luminii RGB and RGBW controllers, receivers, and decoders.

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

ORDERING CODE

MODEL

**RGBW-MC3**

RGBW-MC3 - 4-zone RGBW controller

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 | | ZONES | | COLOR |
|---|---|---|---|---|
| | - | | - | |

DMX - DMX Controller

3Z - Three Zone
1Z - One Zone

RGBW - Red,Green, Blue,& White

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

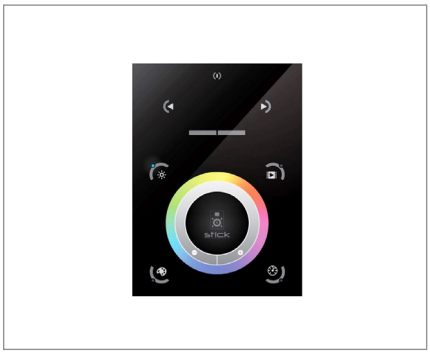
**Operating Voltage**

12 - 24V DC

**Color Parameters**

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

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



ORDERING CODE

MODEL

**TSDMX-E**

TSDMX-E - Touchscreen DMX controller

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**

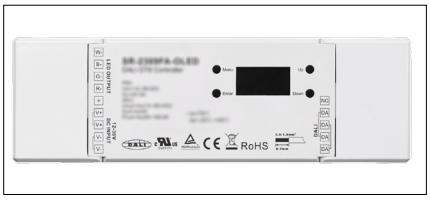
DMX512 (1024 channels)

**Color Parameters**

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

## 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