LLX18 Pixel Wet | IP65, IP67, & IP68 rated Color-changing LED strip - 24V

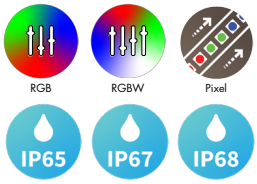
optic arts by luminii



LLRGBX18WET-T



LLRGBWX18WET-T



Features

The LLX18-RGB Wet is a small profile and energy efficient color-changing light strip. It is easily installed directly on to the mounting surface with double sided tape or within discrete mounting extrusions. The durable but flexible circuit board enables the perfect fit for every application.

LLX18-WET-T-RGBW-SPI is a new small profile, more energy efficient LED strip for wet locations. The LineLED RGB & RGBW Wet Tube has superior light output, a durable but flexible circuit board and it is very easy to install.

Mounting
LLED strip is equipped with 3M™ self-adhesive tape.

Applications
Outdoor and wet locations - cove lighting, architectural accent, handrail, wet bars.

Approvals
IP65, IP67, and IP68 rated

Operating voltage
24 VDC

Average Life (L70)
50,000 hours

Warranty
3 years

Technical Information

TYPE	LLRGBX18	LLRGBWX18
OUTPUT OPTIONS	**SO**	**SO**
Lumens Output (all channels full on)	161 lm/ft	230 lm/ft
Average Power Consumption (for a 4" section)	3.9 W/ft	4.9 W/ft
Efficacy	41 lm/W	47 lm/W
Ordering Increment (in)	3.94"	
Pitch Length	0.66"	
Max Run Length (in series)	30 ft	20 ft
Max Strip Length	16 ft	
Dimensions	0.53" W x 0.24" H	
Ambient Operating Temperature Range*	-5°F – 115°F (-20°C – 45°C)	-5°F – 105°F (-20°C – 40°C)
Control/Dimming Protocol	SPI Protocol UCS 2903	SPI Protocol UCS 2904

*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)

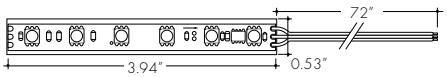
Tape	TM-30 CRI	R_f	R_g	R_9
LLRGBWX18-SO	93	91	99	64

Dominant Wavelength

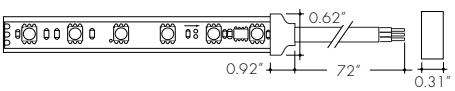
Color	RGB/RGBW
Red	621nm
Green	519nm
Blue	465nm

Section Start/End Options

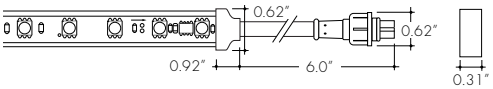
SL65
72" Soldered Leads, IP65 rated



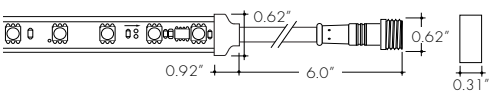
SL68
72" Soldered Leads, IP68 rated



LF
Female Quick Connect End, IP67 rated



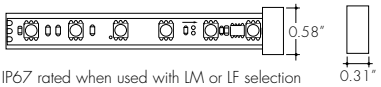
LM
Male Quick Connect End, IP67 rated



NC
No Connector



IP65 rated when used with SL65 selection



IP67 rated when used with LM or LF selection
IP68 rated when used with SL68 selection

Ordering Code

MODEL	OUTPUT	CCT	SECTION START[1]	SECTION END[1]	LENGTH
LLRGBWX18WET-T - LineLED LLRGBWX18 Wet Tube LLRGBX18WET-T - LineLED LLRGBX18 Wet Tube	SO - Standard	PXSPI - Smart Pixel Control (SPI)	SL65 - IP65 Soldered lead wires (72") SL68 - IP68 Soldered lead wires (72") LF - IP67 Female connector LM - IP67 Male connector NC - No connector	SL65 - IP65 Soldered lead wires (72") SL68 - IP68 Soldered lead wires (72") LF - IP67 Female connector LM - IP67 Male connector NC - No connector	Lengths specified to the inch; ordering code rounded up to one-foot increments. See chart above for max run length

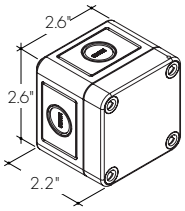
1- IP rating of strip is equal to the lowest IP rating of section start and end options.

LLX18 Pixel Wet | IP65, IP67, & IP68 rated Color-changing LED strip - 24V

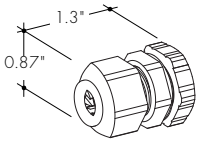
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Accessories

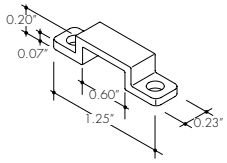
LVSP-WET
Splice box: wet rated, low voltage, gray, IP66



LVSP-WET-CM
Splice box connector, low voltage, gray

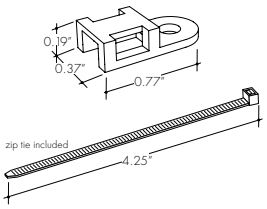


CL2
Mounting clip



Recommended at every 12" when LineLED strip is facing down.

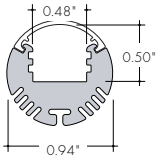
LL.ZIP
Cable/Wire Strain Relief Clip



Lens Options / Light Transmission

RO CHANNEL -ROC
(Link to Web)





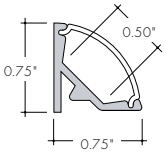
Lens	Clear	Frosted
Transmission %	86%	67%
Dotting*	CD	SD

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option
- LLRGBWX18

K45R CHANNEL -K45RC
(Link to Web)





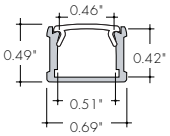
Lens	Round Frosted
Transmission %	65%
Dotting*	CD

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option

KM CHANNEL -KMC
(Link to Web)



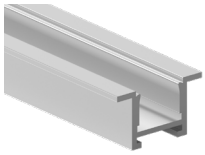


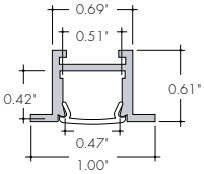
Lens	Clear	Half Frosted	Frosted	Flat Frosted	Raised	Narrow Beam Grazer
Transmission %	82%	65%	51%	47%	58%	56%
Dotting*	CD	CD	CD	CD	ND	N/A

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option
- LLRGBWX18

KRM CHANNEL -KRMC
(Link to Web)





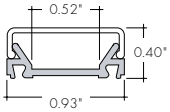
Lens	Clear	Half Frosted	Frosted	Flat Frosted	Narrow Beam Grazer
Transmission %	82%	65%	51%	47%	56%
Dotting*	CD	CD	CD	CD	N/A

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option
- LLRGBWX18

BAR CHANNEL -BARC
(Link to Web)



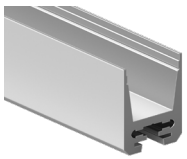


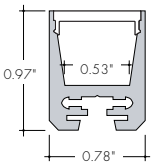
Lens	Frosted	Narrow Beam	Medium	Batwing	Asymmetric
Transmission %	65%	63%	56%	74%	56%
Dotting*	CD	N/A	N/A	N/A	N/A

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option
- LLRGBWX18

ALS20 CHANNEL -ALS20C
(Link to Web)





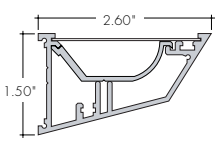
Lens	Clear	Frosted
Transmission %	54%	49%
Dotting*	CD	SD

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option
- LLRGBWX18

MCAL CHANNEL -MCALC
(Link to Web)



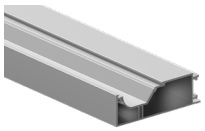


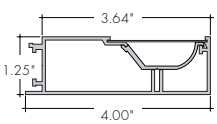
Lens	Long Throw	Tall Throw
Transmission %	91%	91%
Dotting*	CD	N/A

*At 100% brightness

NOT Compatible with
- LLRGBWX18

MREC CHANNEL -MRECC
(Link to Web)





Lens	Long Throw	Tall Throw
Transmission %	91%	91%
Dotting*	CD	CD

*At 100% brightness

NOT Compatible with
- LLRGBWX18

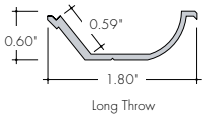
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Lens Options / Light Transmission

CLT CHANNEL -CLTC
(Link to Web)





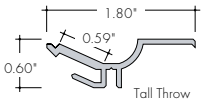
Lens	No Lens
Transmission %	100%
Dotting*	CD

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option

CTT CHANNEL -CTTC
(Link to Web)





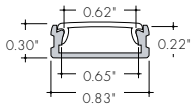
Lens	No Lens
Transmission %	100%
Dotting*	CD

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option

KL CHANNEL -KLC
(Link to Web)



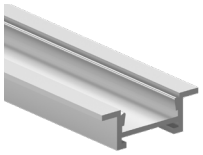


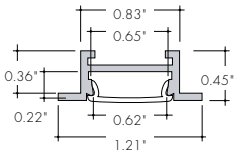
Lens	Clear	Half Frosted	Frosted
Transmission %	90%	75%	60%
Dotting*	CD	CD	CD

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option
- LLRGBWX18

KRL CHANNEL -KRLC
(Link to Web)





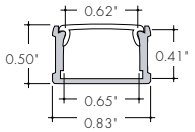
Lens	Clear	Half Frosted	Frosted
Transmission %	90%	75%	60%
Dotting*	CD	CD	CD

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option
- LLRGBWX18

KXL CHANNEL -KXLC
(Link to Web)

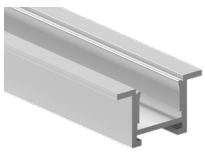


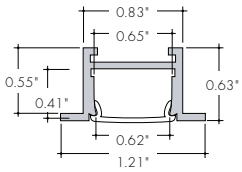


Lens	Clear	Half Frosted	Frosted
Transmission %	86%	69%	54%
Dotting*	CD	CD	CD

*At 100% brightness

KRXL CHANNEL -KRXLC
(Link to Web)



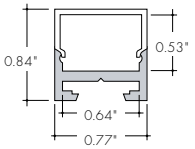


Lens	Clear	Half Frosted	Frosted
Transmission %	86%	69%	54%
Dotting*	CD	CD	CD

*At 100% brightness

CLA CHANNEL -CLAC
(Link to Web)



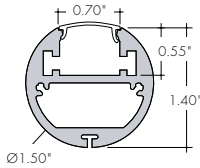


Lens	Rounded Square Frosted	Square Frosted
Transmission %	62%	65%
Dotting*	SD	SD

*At 100% brightness

RO15 CHANNEL -RO15C
(Link to Web)



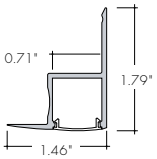


Lens	Clear	Frosted
Transmission %	76%	50%
Dotting*	CD	SD

*At 100% brightness

ALE CHANNEL -ALEC
(Link to Web)



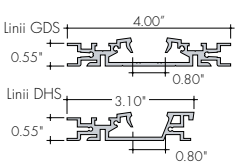


Lens	Clear	Frosted
Transmission %	58%	37%
Dotting*	CD	ND

*At 100% brightness

LIN CHANNEL -LINC
(Link to Web)





Lens	Frosted	Frosted Silicone	No Lens
Transmission %	48%	54%	82%
Dotting*	SD	N/A	CD

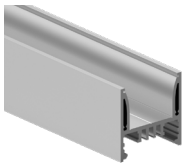
*At 100% brightness

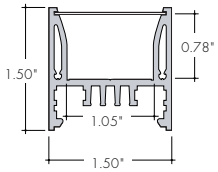
LLX18 Pixel Wet | IP65, IP67, & IP68 rated Color-changing LED strip - 24V

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Lens Options / Light Transmission

KILO CHANNEL -KILOC
(Link to Web)



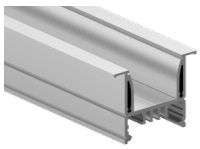


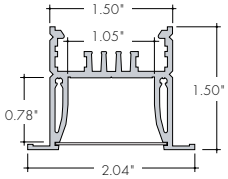
Lens	Clear	Frosted	No Lens
Transmission %	85%	75%	90%
Dotting*	CD	ND	CD

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option

KILOR CHANNEL -KILORC
(Link to Web)



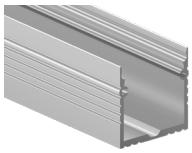


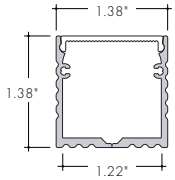
Lens	Clear	Frosted	No Lens
Transmission %	85%	75%	90%
Dotting*	CD	ND	CD

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option

PLA CHANNEL -PLAC
(Link to Web)





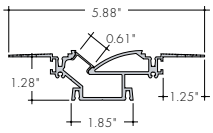
Lens	Clear	Frosted
Transmission %	56%	34%
Dotting*	CD	ND

*At 100% brightness

NOT Compatible with
- LF Connect Option
- LM Connect Option
- SL68 Connect Option

KREST WASH CHANNEL -KRESTC-W
(Link to Web)





Lens	Frosted
Transmission %	45%
Dotting*	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 Consumption

Tested at full power with PDC Series power supplies.

	LLRGBX18		LLRGBWX18	
Nominal Length	W/ft	Total Wattage	W/ft	Total Wattage
1	4.6	4.6	5.7	5.7
2	4.6	9.1	5.7	11.3
3	4.5	13.1	5.7	16.5
4	4.5	17.4	5.6	21.9
5	4.4	21.7	5.5	27.1
6	4.4	25.8	5.5	32.3
7	4.3	29.8	5.4	37.1
8	4.3	33.4	5.3	41.6
9	4.2	37.2	5.3	46.4
10	4.2	40.9	5.2	51.2
11	4.1	45.7	5.1	57.4
12	4.0	49.2	5.1	61.9
13	4.0	52.3	5.0	66.0
14	3.9	55.6	4.9	69.6
15	3.9	58.8	4.8	73.0
16	3.8	61.8	4.7	76.2
17	3.7	64.0	4.6	78.4
18	3.7	66.8	4.5	81.2
19	3.7	69.4	4.4	83.6
20	3.6	72.0	4.3	86.0
21	3.6	74.6		
22	3.5	75.9		
23	3.4	78.2		
24	3.4	80.2		
25	3.3	82.3		
26	3.3	84.3		
27	3.2	85.0		
28	3.1	86.7		
29	3.1	88.2		
30	3.0	89.7		

Voltage Drop Calculator

The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

Wattage [W]	Maximum Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	136.9	86.1	54.1	34.0	21.4	13.5
30	181.4	114.1	71.7	45.1	28.4	17.8	11.2
35	155.5	97.8	61.5	38.7	24.3	15.3	9.6
40	136.0	85.5	53.8	33.8	21.3	13.4	8.4
45	120.9	76.0	47.8	30.1	18.9	11.9	7.5
50	108.8	68.4	43.0	27.1	17.0	10.7	6.7
55	98.9	62.2	39.1	24.6	15.5	9.7	6.1
60	90.7	57.0	35.9	22.6	14.2	8.9	5.6
65	83.7	52.6	33.1	20.8	13.1	8.2	5.2
70	77.7	48.9	30.7	19.3	12.2	7.6	4.8
75	72.5	45.6	28.7	18.0	11.3	7.1	4.5
80	68.0	42.8	26.9	16.9	10.6	6.7	4.2
85	64.0	40.3	25.3	15.9	10.0	6.3	4.0
90	60.5	38.0	23.9	15.0	9.5	5.9	3.7
96	56.7	35.6	22.4	14.1	8.9	5.6	3.5

LLX18 Pixel Wet | IP65, IP67, & IP68 rated Color-changing LED strip - 24V

optic arts by luminii

Power Supplies

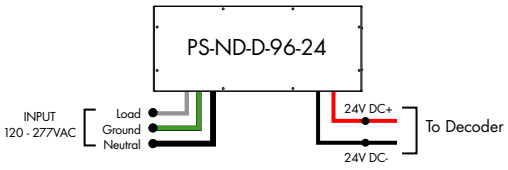
See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.

For use with RGB/RGBW/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, 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

For use with Pixel Power Supplies



ORDERING CODE

MODEL

SR-DMX-SPI

SR-DMX-SPI - Smart Pixel Decoder

The SR-DMX-SPI is a smart LED pixel decoder that controls RGB/RGBW pixel LED strips with SPI signal. Designed with an OLED backlit panel, the pixel controller allows for easy configuration of most settings. Four push buttons are available for control of the LED functions.

*For pixel only.

Features

- 2 in 1 in-Wall Controller: DMX Control or Wireless RGB-W
- SPI signal output for RGB/RGBW pixel light control
- DMX512 controllable and RF/WIFI remote controllable
- Capable of addressing up to 1020 RGB pixels & 765 RGBW pixels
- OLED panel allows for easy configuration

Operating Voltage

12 - 36V DC

Power capacity

up to 96W at 24V

Operating temperature range

from -4°F to +122°F in case