

Date Project

Notes

### PIXEL RIBBONLYTE

Pixel RibbonLyte allows customized patterns of light that can be programmed to a single LED! Your designs are only limited by your imagination. Program each RGB LED pixel individually with SPI controls to create the most precise moving effects, patterns, chases and more throughout large light displays. Control 18 pixels per foot (60 pixels per meter)!

- 5.3 W/ft (17.5 W/m)
- 0.66 in. (16.66 mm) LED (pixel) spacing
- 18 LEDs/ft (60 LEDs/m)
- 3.94 in. (100 mm) cuttable length
- 137 lm/ft (450 lm/m) all on
- 24 ft, 7.2 in. (7.5 m) max. run length
- · Use with SPI controls
- · 24V input
- 5-year warranty

## Applications:

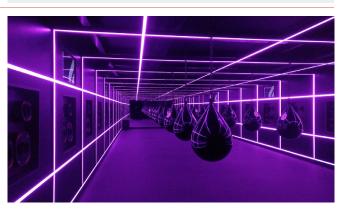
Commercial Entertainment Healthcare Hospitality Museums Public Spaces Residential Retail





**RoHS** 

**IP20**Dry/interior applications





## **ORDERING GUIDE**

Category	CRI	Ribbon Type & IP Rating	Wattage + Color	Control
RB	0	RGBADD	5.3RGB	S
RB - Ribbonl vte	0 - Color Changing	RGBADD - RGB Pixel IP20	5.3RGB - 5.3 W/ft (17.5 W/m) RGB	S - SPI

## CONTROLLERS:

- C4 Extended Controller
   Part # for 1 universe model: CTRLPIXEL1
   Part # for 2 universe model: CTRLPIXEL2
   Part # for 4 universe model: CTRLPIXEL4
   Part # for 8 universe model: CTRLPIXEL8
- 2. C4 Live Controller
  - Part # for 4 universe model: CTRLPIXELLIVE4 Part # for 8 universe model: CTRLPIXELLIVE8 Part # for 12 universe model: CTRLPIXELLIVE12 Part # for 16 universe model: CTRLPIXELLIVE16 Part # for 24 universe model: CTRLPIXELLIVE24
- 3. PxLNet Controller Part #: CTRLPIXEL96

## DRIVERS:

- 1. 24V 60W Non-dimmable Driver Part #: DRVW2460
- 2. 24V 96W Non-dimmable Driver Part #: DRVW2496

## **AVAILABLE COLORS**





# SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

					PIXEL RIBBO	NLYTE		
Operating Voltage		24 V						
Power Consumption		5.3 W/ft (17.5 W/m)						
IC Code		16-bit (Default) WS2813A						
Current (mA) - 24V		222 mA/ft (730 mA/m)						
LED Pitch		18 LEDs/ft (60 LEDs/m)						
Protection Rating		IP20						
Dimming/Control		SPI						
Ambient Temperature		-4° F to 140° F (-20° C to 60° C)						
Storage Temperature		-40° F to 176° F (-40° C to 80° C)						
Colors		RGB						
Lumens		137 lm/ft (450 lm/m)						
LED Beam Angle		120°						
Lamp Life		50,000 Hours						
Cuttable Length		3.94 in. (100 mm)						
Constant Voltage		✓						
Max Run Length		24 ft 7.2 in. (7.5 m)						
Cable Length Attached to RibbonLyte		11.81 in. (30 cm)						
Cable Type		H05RN-F3xG0.75						
Certifications		EN 62471, EN 60598-1, EN 60598-2-20, EN 62031, EN 62493, CE						
Warranty					5 year	s		
DIMENSIONS	Top View					Side View	Dimensions	
IP20					GND BO DO 24V		Width 0.39 in (10 mm)  Max Length 24 ft 7.2 in (7.5 m)  Height 0.1 in (2.7 mm)	
	CUTTABLE EVERY: 3.94 in (	100 mm)						

# USAGE GUIDELINES

- IP20 RibbonLyte products are for indoor use in dry areas only.
- Please refer to the RibbonLyte Proper Usage Guide in our Application Guide for more information. Available for download at AcolyteLED.com.
- This product is compatible with a wide variety of control products including C4 and PxLNET controls and the entire line of Lutron dimming systems.
- $\bullet \quad \text{For use with Acolyte drivers.} \\ \text{Use with non-Acolyte supplied drivers is not supported or warrantied.} \\$
- Due to the nature of RibbonLyte products, cuttable lengths are generally longer or shorter than the customer requested length unless specified, RibbonLyte is factory cut at the shorter cuttable point.
- We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.

Acolyte does not warrant or represent that the information is free from errors or omission. The information may change without notice and Acolyte is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.



# CHANNEL COMPATIBILITY / CHANNEL OPTIONS

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CHANNEL	IP20
AC1	<b>✓</b>
AC2	<b>✓</b>
AC3	<b>/</b>
AC4	<b>✓</b>
AC5	~
AR1	<b>~</b>
AR3	~
AR10	
AR16	~
AR20	<b>✓</b>
AR25	~
AR30	<b>✓</b>
AR33	
AS1	<b>✓</b>
AS2	~
AS3	<b>✓</b>
AS6	~
AS10	
AS13	~
AS16	<b>✓</b>
AS20G	~
AS23	<b>✓</b>
AS30	~
AS53	
AT4	~
AT5	<b>✓</b>
AW12	~
AW14	~
AW38	~
B1	~
SC3	~
SC4	~
SC5	~
WH35	<b>✓</b>

## SURFACE CHANNELS



W: 0.68 in. / 17.2 mm H: 0.34 in. / 8.7 mm Inside: 0.57 in. / 14.6 mm



AS13 / round milky

W: 1.31 in. / 33.4 mm H: 1.29 in. / 32.7 mm Inside W: 1.22 in. / 31 mm Inside H: 1 in. / 25.3 mm



W: 0.7 in. / 17.8 mm H: 0.6 in. / 15.2 mm Inside: 0.49 in. / 12.5 mm



AS23

W: 0.91 in. / 23 mm H: 0.99 in. / 25.1 mm Inside W: 0.83 in. / 21 mm Inside H: 0.72 in. / 18.2 mm

AS13 / square milky

W: 1.31 in. / 33.4 mm H: 1.37 in. / 34.8 mm Inside W: 1.22 in. / 31 mm Inside H: 1.07 in. / 27.3 mm



W: 0.93 in. / 23.6 mm H: 0.42 in. / 10.7 mm Inside: 0.81 in. / 20.6 mm



AS23 / square milky

W: 0.91 in. / 23 mm H: 1.59 in. / 40.5 mm Inside W: 0.83 in. / 21 mm Inside H: 1.32 in. / 33.4 mm



AS16

AS30

W/H: 1.31 in. / 33.4 mm H: 1.17 in. / 29.6 mm Inside W: 1.17 in. / 29.8 mm Inside H: 0.93 in. / 23.6 mm



AS20G



WH35

W: 1.37 in. / 35 mm H: 1.47 in. / 37.5 mm Inside: 1.23 in. / 31.2 mm





AT5



AW12



W: 1.5 in. / 38 mm H: 1.31 in. / 33.4 mm Inside W: 1.22 in. / 31 mm Inside H: 1.17 in. / 29.8 mm

AW38



## CORNER CHANNELS



AC1







AC4



AC5

## RECESSED CHANNELS



AR1

W: 0.9 in. / 22.9 mm H: 0.31 in. / 7.87 mm Inside W: 0.49 in. / 12.5 mm



AR3

W: 1.2 in. / 30.5 mm H: 0.39 in. / 9.9 mm Inside W: 0.81 in. / 20.6 mm



**AR16** 

MUD-IN CHANNELS



AR20

W: 1.18 in. / 30 mm H: 0.8 in. / 20.4 mm Inside W/H: 0.83 in. / 21 mm Inside H: 0.73 in. / 18.5 mm



AR25

W: 1.75 in. / 44.4 mm H: 0.94 in. / 24 mm Inside W: 1.22 in. / 31 mm Inside H: 0.91 in. / 23 mm



W: 1.75 in. / 44.4 mm H: 0.55 in. / 14 mm Inside W: 1.22 in. / 31 mm Inside H: 0.51 in. / 13 mm



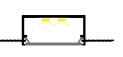
AW14

W: 0.98 in. / 24.9 mm H: 1.31 in. / 33.4 mm Inside W: 0.58 in. / 14.8 mm Inside H: 0.63 in. / 16 mm



SC3

Overall W: 2.62 in. / 66.6 mm Visible W: 0.88 in. / 22.35 mm H: 0.55 in. / 14 mm Inside W: 0.69 in. / 17.5 mm



SC4

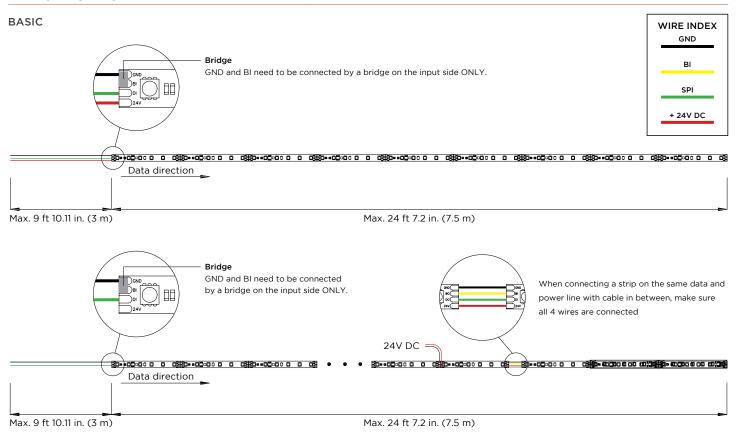
Overall W: 2.5 in. / 63.4 mm Visible W: 1.31 in. / 33.4 mm H: 0.63 in. / 15.9 mm Inside W: 1.22 in. / 31 mm Inside H: 0.5 in. / 12.9 mm

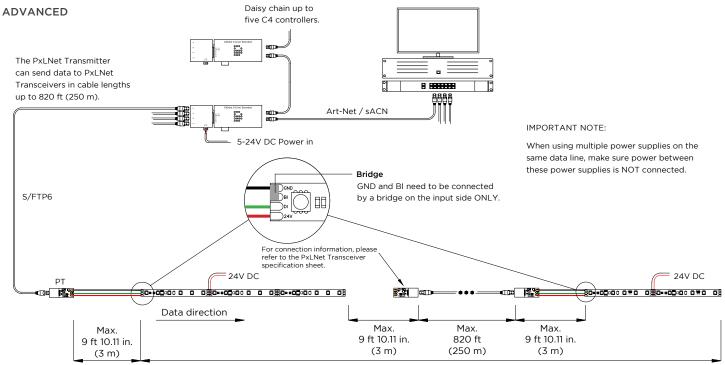


SC5

Overall W: 2.5 in. / 63.4 mm Visible W: 1.31 in. / 33.4 mm H: 0.94 in. / 24 mm Inside W: 1.22 in. / 31 mm Inside H: 0.83 in. / 21 mm

## WIRING DIAGRAMS





The C4 Live controller provides data output up to 37 ft (11.3 m) per output