

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)!

- 6.1 W/ft (19.9 W/m)
- 0.66 in. (16.66 mm) LED (pixel) spacing
- 18 LEDs/ft (60 LEDs/m)
- 3.94 in. (100 mm) cuttable length
- 124.5 lm/ft (408 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

Residential Retail

**Public Spaces** 





RoHS **IP20** Declare.







### **ORDERING GUIDE**

Category	CRI	Ribbon Type & IP Rating	Wattage + Color	Control
RB	0	RGBADD	6.1RGB	S
RB - Ribbonl vte	0 - Color Changing	RGBADD - RGB Pixel IP20	6.1RGB - 6.1 W/ft (19.9 W/m) RGB	S - SPI

## CONTROLLERS:

- 1. 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

## **AVAILABLE COLORS**





# SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

	PIXEL RIBBONLYTE
Operating Voltage	24 V
Power Consumption	6.1 W/ft (19.9 W/m)
IC Code	16-bit (Default) P943 (WS2813)
Current (mA) - 24V	254 mA/ft (833 mA/m)
LED Pitch	18 LEDs/ft (60 LEDs/m)
Protection Rating	IP20
Dimming/Control	SPI
Ambient Temperature	-4 — 140 °F (-20 — 60 °C)
Storage Temperature	-40 − 176 °F (-40 − 80 °C)
Colors	RGB
Lumens	124.5 lm/ft (408 lm/m) all LEDs on
Efficacy	21 lm/W all LEDs on
LED Beam Angle	120°
Lifetime (L70 reported)	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 years

DIMENSIONS	Top View	Side View	Dimensions
IP20	OND CHURCH CHAPTER STORY OF CHAPTER STOR		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

- $\bullet \;\;$  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.
- For use with Acolyte drivers. 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.

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# CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP20
AC1	~
AC2	~
AC3	~
AC4	~
AC5	~
AR1	~
AR3	~
AS1	~
AS2	~
AS3	~
AS6	~
AS11	
AS16	~
AS18	~
AS20G	~
AS22	~
AS30	~
AS53	
AT4	~
AT5	~
B1	~
SC3	~
	1

WH35

#### SURFACE CHANNELS









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



AS3 W: 0.93 in. / 23.6 mm H: 0.42 in. / 10.7 mm Inside W: 0.81 in. / 20.6 mm



AS6 W: 0.89 in. / 22.5 mm H: 0.62 in. / 15.7 mm Inside W: 0.71 in. / 18 mm



AS16



W: 0.74 in. / 18.8 mm H: 0.73 in. / 18.6 mm Inside W: 0.65 in. / 16.4 mm



AS18 W: 0.92 in. / 23.4 mm H: 1.1 in. / 27.8 mm Inside W: 0.73 in. / 18.6 mm



B1

W: 0.77 in. / 19.6 mm H: 0.26 in. / 6.5 mm Inside W: 0.69 in. / 17.6 mm



W: 0.61 in. / 15.5 mm H: 0.71 in. / 18 mm Inside W: 0.48 in. / 12.3 mm



W: 1.03 in. / 26.2 mm H: 1.3 in. / 32.9 mm Inside W: 0.87 in. / 22.2 mm



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



W: 0.77 in. / 19.6 mm H: 0.74 in. / 18.8 mm Inside W: 0.66 in. / 16.8 mm



W: 0.77 in. / 19.6 mm H: 0.74 in. / 18.8 mm Inside W: 0.66 in. / 16.8 mm



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

#### CORNER CHANNELS



AC1 W: 0.63 in. / 16 mm H: 0.63 in. / 16 mm Inside W: 0.48 in. / 12.2 mm



W: 0.63 in. / 16 mm H: 0.63 in. / 16 mm Inside W: 0.48 in. / 12.2 mm



AC3 W: 0.74 in. / 18.8 mm H: 0.74 in. / 18.8 mm Inside W: 0.48 in. / 12.2 mm



AC4 W: 1.18 in. / 30 mm H: 1.18 in. / 30 mm Inside W: 0.77 in. / 19.6 mm



AC5

W: 1.18 in. / 30 mm H: 1.18 in. / 30 mm Inside W: 0.77 in. / 19.6 mm

#### RECESSED CHANNELS







AR3

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

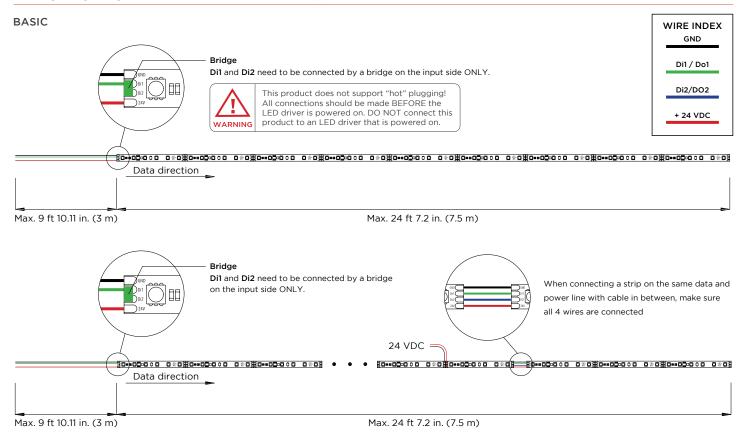
### MUD-IN CHANNELS

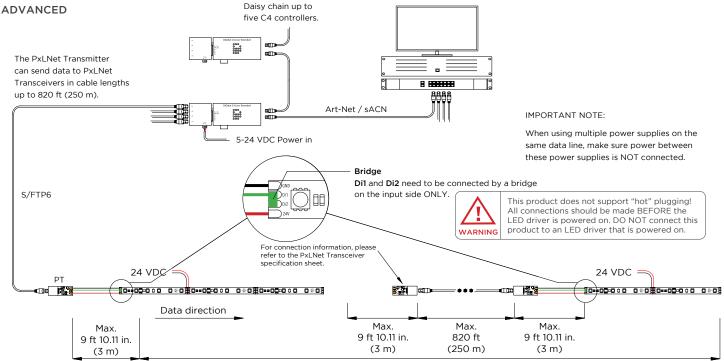


# SC3

W: 2.62 in. / 66.6 mm H: 0.55 in. / 14 mm Inside W: 0.69 in. / 17.5 mm

### WIRING DIAGRAMS





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