

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 - RibbonLvte	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		c Using bot Carrows State Carrows Carr		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.
- $\bullet\quad \text{For use with Acolyte drivers.} Use \text{ with non-Acolyte supplied drivers is not supported or warrantied.}\\$
- 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

AS1

CHANNEL	IP20
AC1	~
AC2	~
AC3	~
AC4	~
AC5	~
AR1	~
AR3	~
AS1	~
AS2	~
AS3	~
AS5	~
AS6	~
AS10	
AS11	~
AS13	~
AS16	~
AS18	~
AS20G	~
AS23	~
AS30	~
AS53	
AT4	~
AT5	~
B1	~
SC3	~
WH35	~



W: 0.68 in. / 17.2 mm H: 0.34 in. / 8.6 mm Inside W: 0.48 in. / 12.2 mm











W: 0.76 in. / 19.4 mm H: 0.43 in. / 11 mm Inside W: 0.47 in. / 12 mm



AS6





W: 0.89 in. / 22.5 mm H: 0.62 in. / 15.7 mm Inside W: 0.71 in. / 18 mm W: 0.52 in. / 13.1 mm H: 0.54 in. / 13.7 mm Inside W: 0.41 in. / 10.5 mm



AS16 W: 0.74 in. / 18.8 mm H: 0.73 in. / 18.6 mm Inside W: 0.65 in. / 16.4 mm



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

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



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

AS13 / square lens W: 1.31 in. / 33.4 mm H: 1.37 in. / 34.8 mm Inside W: 1.22 in. / 31 mm



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



AS20G W: 0.61 in. / 15.5 mm H: 0.71 in. / 18 mm Inside W: 0.48 in. / 12.3 mm



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



AS23 / square lens W: 0.91 in. / 23 mm H: 1.59 in. / 40.5 mm Inside W: 0.83 in. / 18.2 mm



AS30 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: 0.77 in. / 19.6 mm H: 0.26 in. / 6.5 mm Inside W: 0.69 in. / 17.6 mm



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





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



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





AR1

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

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

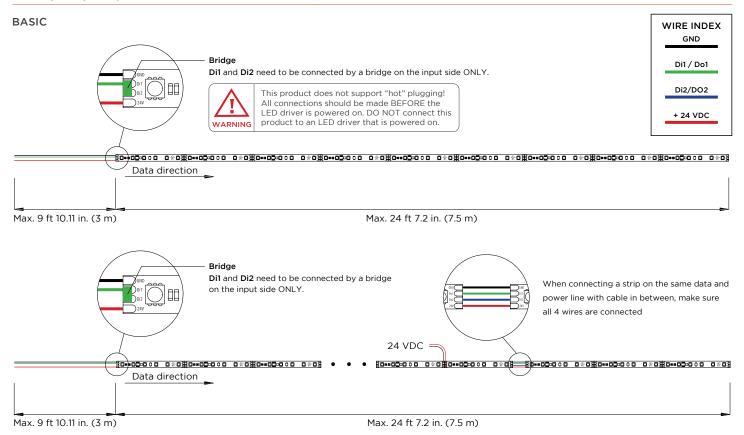
MUD-IN CHANNELS

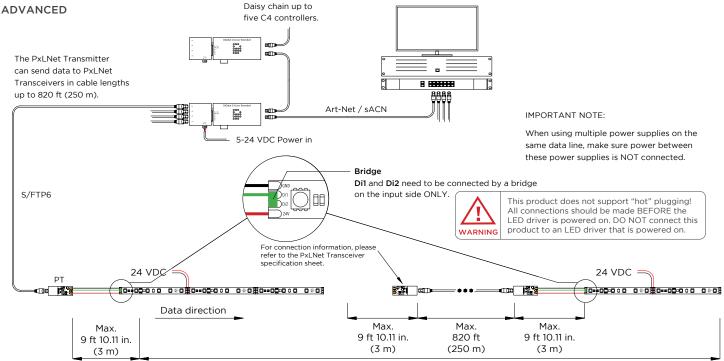


SC3

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