

# WLS15 LED Strip Light Quick Start Guide



## Features

This guide is designed to help you set up and install the WLS15 LED Strip Light. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Product Manual at [www.bannerengineering.com](http://www.bannerengineering.com). Search for part number 197493 to view the Product Manual. Use of this document assumes familiarity with pertinent industry standards and practices.



For PWM dimming, use with the LC65P2T 2-wire dimmer module. For more information, refer to the LC65 LED Dimmer Module datasheet, p/n [177086](#). This module can only be used with the single color models.

**IMPORTANT:** Read the following instructions before operating the light. Please download the complete WLS15 LED Strip Light technical documentation, available in multiple languages, from [www.bannerengineering.com](http://www.bannerengineering.com) for details on the proper use, applications, Warnings, and installation instructions of this device.

**IMPORTANT:** Lea el siguiente instructivo antes de operar el lumínario. Por favor descargue desde [www.bannerengineering.com](http://www.bannerengineering.com) toda la documentación técnica de los WLS15 LED Strip Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

**IMPORTANT:** Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des WLS15 LED Strip Light sur notre site [www.bannerengineering.com](http://www.bannerengineering.com) pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

## Single Color Models

### Model Key

Family	Cascadable	Color	Length	Window	Construction	Connector <sup>(1)</sup>
WLS15	C	DW	0360	D	S	C2
			0220 mm (6 in)			C2 = 2 m (6.5 ft) integral PVC cable
			0360 mm (1 ft)			C4 = 4 m (13 ft) integral PVC cable
			0500 mm (1.5 ft)			C5 = 5 m (16.4 ft) integral PVC cable
			0640 mm (2 ft)			C30 = 9 m (30 ft) integral PVC cable
			0920 mm (3 ft)	D = Diffuse	S = Sealed (IP66, IP67)	QP = 150 mm (5.9 in) PVC cable with M12 quick-disconnect connector
			1200 mm (4 ft)			QS = 150 mm (5.9 in) PVC cable with Deutsch DTM connector

## Dual Color Models

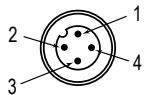
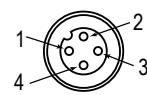
### Model Key

Family	Cascadable	Color 1	Color 2	Length	Window	Construction	Connector <sup>(2)</sup>
WLS15	C	W	R	0360	D	S	C2
		W = Daylight white		0220 mm (6 in)			C2 = 2 m (6.5 ft) integral PVC cable
		B = Blue		0360 mm (1 ft)			C4 = 4 m (13 ft) integral PVC cable
		G = Green		0500 mm (1.5 ft)			C5 = 5 m (16.4 ft) integral PVC cable
		R = Red		0640 mm (2 ft)			C30 = 9 m (30 ft) integral PVC cable
		Y = Yellow		0920 mm (3 ft)	D = Diffuse	S = Sealed (IP66, IP67)	QP = 150 mm (5.9 in) PVC cable with M12 quick-disconnect connector
		A = Amber		1200 mm (4 ft)			QS = 150 mm (5.9 in) PVC cable with Deutsch DTM connector

<sup>(1)</sup> Models with a quick-disconnect or Deutsch DTM connector require a mating cordset.

<sup>(2)</sup> Models with a quick-disconnect connector require a mating cordset.

## Wiring Diagrams

QP Models		Pin	Wire Color	Single Color Models	Dual Color Models
		1	brown	12 V DC or 24 V DC	Color 1: 12 V DC or 24 V DC
		3	blue	DC common	DC common
		4	black	Not used	Color 2: 12 V DC or 24 V DC (color 2 overrides color 1)
		2	white	Not used	Not used

QS Models: Single Color Models Only				
Male	Female	Pin	Wire Color	Connection
		1	brown	12 V DC or 24 V DC
		2	blue	DC common

## Specifications

### Supply Protection Circuitry

Protected against reverse polarity and transient voltages

### Supply Voltage

12 V DC or 24 V DC nominal

Absolute operational limits of 10 V DC to 15 V DC and 20 V DC to 27 V DC

Use only with a suitable Class 2 power supply (UL) or a SELV power supply (CE)

Single Color Light Models can be PWM dimmed between 25% to 100% with a frequency up to 1000 Hz

See electrical characteristics on the product's label

### Supply Current

Light Length	Typical Current (A) at 25°C <sup>(3)</sup>		Max. Current (A) at -40°C	
	12 V DC	24 V DC	12 V DC	24 V DC
0220 mm	0.19	0.10	0.24	0.12
0360 mm	0.38	0.20	0.48	0.24
0500 mm	0.57	0.30	0.72	0.36
0640 mm	0.76	0.40	0.96	0.48
0920 mm	1.14	0.60	1.44	0.72
1200 mm	1.52	0.80	1.92	0.96

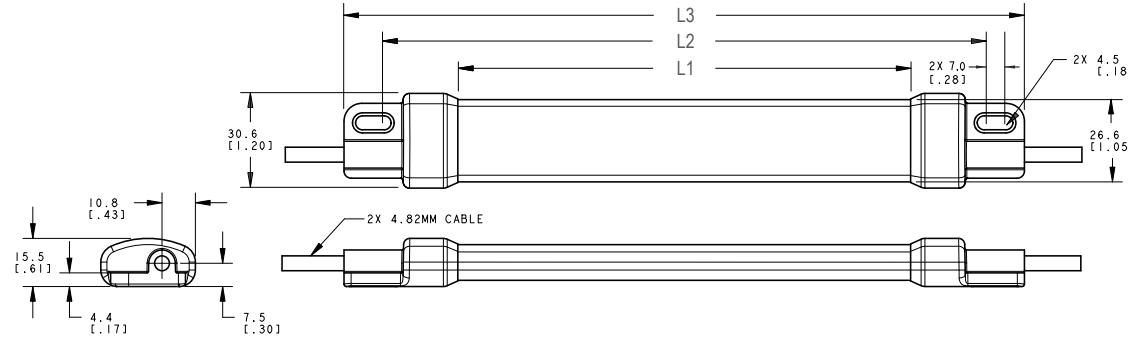
### Connections

2 m (6.5 ft) integral PVC-jacketed cable, 150 mm (6 in) PVC-jacketed cable with a 4-pin M12 male quick-disconnect connector, or 150 mm (5.9 in) 2-pin Deutsch DTM series sealed cable; models with a quick disconnect or Deutsch DTM connector require a mating cordset

Do not spray the cable with a high-pressure sprayer or cable damage will result.

<sup>(3)</sup> Typical current values are shown at 25 °C – current and lumen values decrease 0.4% per 1 °C from ambient. For example, a 1200 mm unit will have a maximum current of 1.92 A at -40 °C and 1.33 A at +60 °C.

## WLS15 Dimensions



Models	L1	L2	L3
WLS15.0220..	146.4 mm (5.76 inches)	194 mm (7.64 inches)	220 mm (8.66 inches)
WLS15.0360..	286.4 mm (11.28 inches)	334 mm (13.15 inches)	360 mm (14.17 inches)

Continued on page 3

Continued from page 2

Models	L1	L2	L3
WLS15..0500..	426.4 mm (16.79 inches)	474 mm (18.66 inches)	500 mm (19.69 inches)
WLS15..0640..	566.4 mm (22.3 inches)	614 mm (24.17 inches)	640 mm (25.2 inches)
WLS15..0920..	846.4 mm (33.32 inches)	894 mm (35.2 inches)	920 mm (36.22 inches)
WLS15..1200..	1126.4 mm (44.35 inches)	1174 mm (46.22 inches)	1200 mm (47.24 inches)

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For patent information, see [www.bannerengineering.com/patents](http://www.bannerengineering.com/patents).

## Mexican Importer

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