

WLS15 Pro LED Strip Light



Datasheet

This guide is designed to help you set up and install the WLS15 Pro LED Strip Light. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual at www.bannerengineering.com. Search for p/n 219134 to view the Instruction Manual. Use of this document assumes familiarity with pertinent industry standards and practices.



Important: Read the following instructions before operating the light. Please download the complete WLS15 Pro LED Strip Light technical documentation, available in multiple languages, from www.bannerengineering.com for details on the proper use, applications, Warnings, and installation instructions of this device.

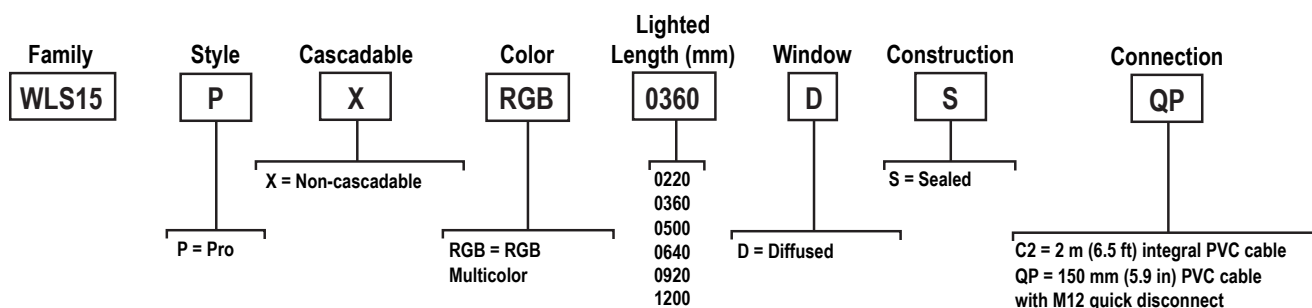


Important: Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los WLS15 Pro LED Strip Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

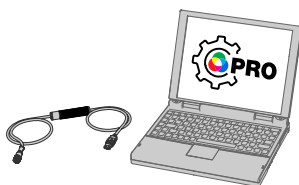


Important: Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des WLS15 Pro LED Strip Light sur notre site www.bannerengineering.com pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions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

Models



Pro Editor



Use Banner's Pro Editor software and Pro Converter Cable to create custom configurations by selecting different colors, flash patterns, and animations. For more information visit www.bannerengineering.com/proeditor.

Wiring Diagrams

Male	Pin	Wire Color	Description ¹
	1	Brown	Input 1
	2	White	Input 3
	3	Blue	DC common
	4	Black	Input 2

¹ Input functionality can change depending on configuration created with Pro Editor. Refer to wiring diagrams in selected mode in Pro Editor.



7 Color Binary Control (Binary input state controls color, default configuration)

Input 1: Pin 1 Brown Wire	Input 2: Pin 4 Black Wire	Input 3: Pin 2 White Wire	LED Color
—	—	—	Light OFF
12 V DC to 30 V DC	—	—	Red
—	12 V DC to 30 V DC	—	Green
—	—	12 V DC to 30 V DC	Yellow
12 V DC to 30 V DC	12 V DC to 30 V DC	—	Blue
12 V DC to 30 V DC	—	12 V DC to 30 V DC	Daylight White
—	12 V DC to 30 V DC	12 V DC to 30 V DC	Daylight White with Red Ends Flash
12 V DC to 30 V DC	12 V DC to 30 V DC	12 V DC to 30 V DC	Blue Bounce with Daylight White Background

Specifications

Supply Voltage

12 V DC to 30 V DC

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

See electrical characteristics on product label

Light Length	Typical Current			Maximum Current
	12 V DC	24 V DC	30 V DC	A
0220 mm	0.120	0.060	0.050	0.125
0360 mm	0.240	0.120	0.100	0.250
0500 mm	0.360	0.180	0.150	0.375
0640 mm	0.480	0.240	0.200	0.500
0920 mm	0.720	0.360	0.300	0.750
1200 mm	0.960	0.480	0.400	1.000

Supply Protection Circuitry

Protected against reverse polarity and transient voltages



Note: Do not spray cable with high-pressure sprayer, or cable damage will result.

Input RatingLeakage Current Immunity: 400 μ A

Indicator On/Off Response Time: 300 ms (maximum)

PWM Input Characteristics

Duty Cycle Range: 0 to 100%

Constant Frequency Range: 100 to 10000 Hz

PFM Input Characteristics

Frequency Range: 100 to 10000 Hz

Constant Duty Cycle Range: 10 to 90%

Construction

Clear anodized aluminum housing

Polycarbonate outer housing

Polyamide end caps

Connections

2 m (6.5 ft) integral PVC cable

150 mm (6 in) PVC cable with a 4-pin M12 male quick disconnect

Models with a quick disconnect require a mating cordset

Mounting

Integral mounting slots for M4 (#8) screws, tighten to 5 in-lbf max torque

Multiple bracket options available

Secure cables within 150 mm (5.9 in) of the light



Note: It is recommended to use the provided mounting bushings when mounting using the endcaps. Center the mounting bushings in each slot to allow for expansion and contraction. Install using a M4 (#8) screw in each bushing torqued to a maximum of 0.45 N-m (4 in-lbf). For 920 mm and 1200 mm models in environments that vary more than 10 °C (18 °F), it is recommended to use one of the mounting bracket options instead of the end cap slots. If using the LMBWLS15 clip bracket and additional attachment is desired, only one end may be fastened using one of the spacers provided in the LMBWLS15 hardware packet to allow the opposite end to expand and contract. See mounting options in the instruction manual for bracket and tape options that allow expansion and contraction over temperature variations.

Environmental Rating

Rated IP66 and IP67

Suitable for wet locations per UL 2108

Vibration and Mechanical Shock

Vibration: 10 Hz to 55 Hz, 1.0 mm peak-to-peak amplitude per IEC 60068-2-6

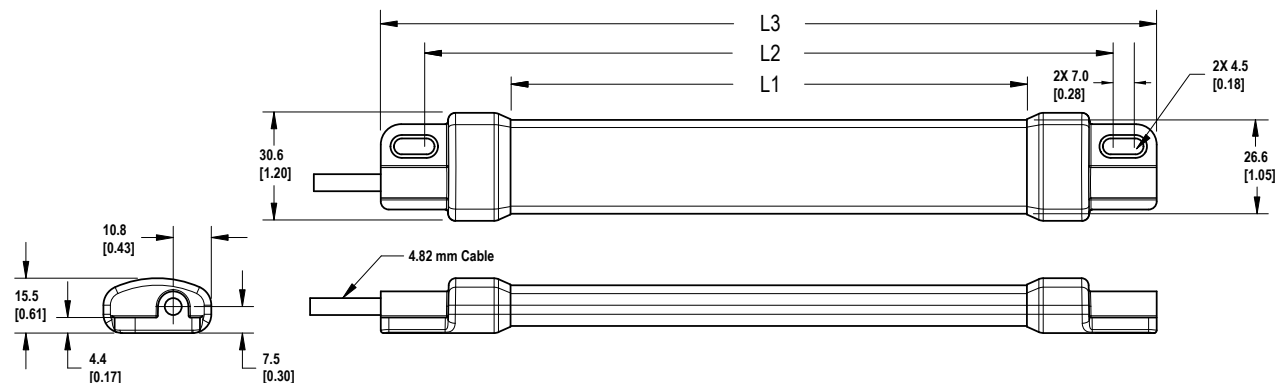
Shock: 15G 11 ms duration, half sine wave per IEC 60068-2-27

Operating Temperature

-40 °C to +50 °C (-40 °F to +122 °F)

Storage Temperature: -40 °C to +70 °C (-40 °F to +158 °F)**Certifications****Advanced Capabilities**

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)
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.

FCC Part 15 and CAN ICES-3 (B)/NMB-3(B)

This device complies with part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the manufacturer.

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