

# WLS15 Pro LED Strip Light with IO-Link



## Datasheet

This guide is designed to help you set up and install the WLS15 Pro LED Strip Light with IO-Link. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual and Data Reference Guide at [www.bannerengineering.com](http://www.bannerengineering.com). Search for p/n 219131 to view the Instruction Manual and p/n 219132 to view the Data Reference Guide. Use of this document assumes familiarity with pertinent industry standard and practices.



**Important:** Read the following instructions before operating the light. Please download the complete WLS15 Pro LED Strip Light with IO-Link 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.

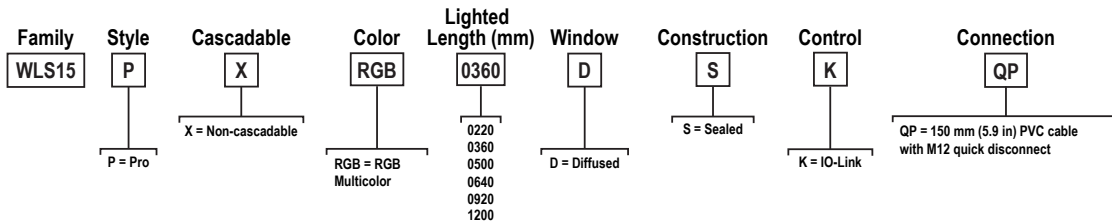


**Important:** Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde [www.bannerengineering.com](http://www.bannerengineering.com) toda la documentación técnica de los WLS15 Pro LED Strip Light with IO-Link, disponibles en múltiples idiomas, para detalles del uso adecuado,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



**Important:** Lisez les instructions suivantes avant d'utiliser le luminare. Veuillez télécharger la documentation technique complète des WLS15 Pro LED Strip Light with IO-Link 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.

## Models



## IO-Link®

IO-Link® is a point-to-point communication link between a master device and a sensor and/or light. It can be used to automatically parameterize sensors or lights and to transmit process data. For the latest IO-Link protocol and specifications, please visit [www.io-link.com](http://www.io-link.com).

For the latest IODD files, please refer to the Banner Engineering Corp website at: [www.bannerengineering.com](http://www.bannerengineering.com).

## Wiring Diagrams

Male	Pin	Wire Color	Description
	1	Brown	18 V DC to 30 V DC
	2	White	Not used
	3	Blue	DC common
	4	Black	IO-Link Communication



## Specifications

### Supply Voltage

18 V DC to 30 V DC  
Use only with suitable Class 2 power supply (UL) or a SELV power supply (CE)

Light Length	Typical Current			Maximum Current A
	18 V DC	24 V DC	30 V DC	
220 mm	0.080	0.060	0.050	0.085
360 mm	0.160	0.120	0.100	0.170
500 mm	0.240	0.180	0.150	0.255
640 mm	0.320	0.240	0.200	0.340
920 mm	0.480	0.360	0.300	0.510
1200 mm	0.640	0.480	0.400	0.680

### Supply Protection Circuitry

Protected against reverse polarity and transient voltages



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

### Construction

Clear anodized aluminum housing  
Polycarbonate outer housing  
Polyamide end caps

### Connections

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

### Environmental Rating

Rated IEC IP66 and IEC IP67  
Suitable for wet locations per UL 2108

### Mounting

Integral mounting slots for M4 (#8) screws, tighten to 0.56 N-m (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.

### 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

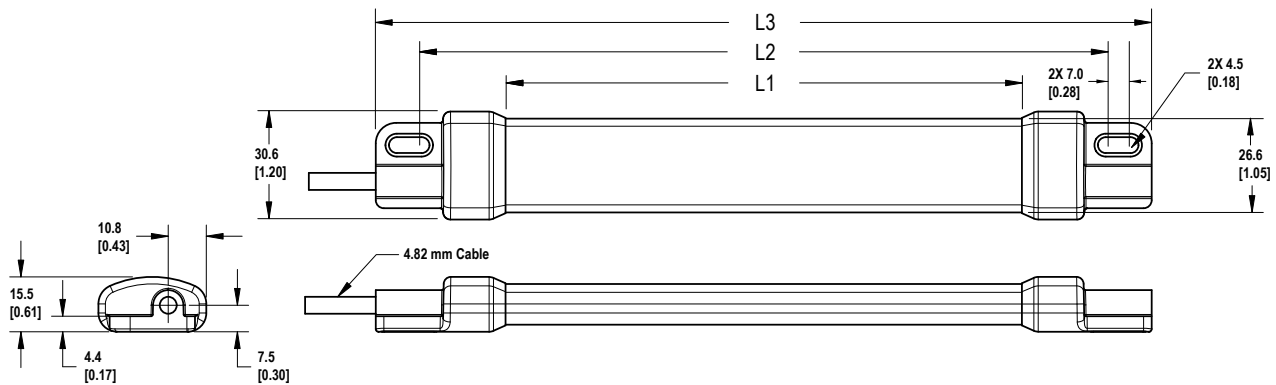
### Operating Temperature

-40 °C to +50 °C (-40 °F to +122 °F)  
**Storage Temperature:** -40 °C to +70 °C (-40 °F to +158 °F)

### Certifications



## 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)

## Banner Engineering Corp. Limited Warranty

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

## Mexican Importer

Banner Engineering de México, S. de R.L. de C.V.  
David Alfaro Siqueiros 103 Piso 2 Valle oriente  
San Pedro Garza Garcia Nuevo León, C. P. 66269  
81 8363.2714



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