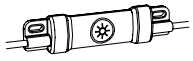
# WLS15 High Intensity LED Strip Light

## Quick Start Guide

This guide is designed to help you set up and install the WLS15 High Intensity 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 218326 to view the Instruction Manual. Use of this document assumes familiarity with pertinent industry standards and practices.



For PWM dimming, use with the LC15T-127AP2RBGQP dimmer module. For more information, refer to the LC15T In-Line Touch Switch datasheet, p/n 217460.

**Important:** Read the following instructions before operating the light. Please download the complete WLS15 High Intensity 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 High Intensity LED Strip Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

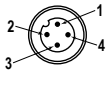
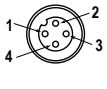
**Important:** Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des WLS15 High Intensity LED Strip Light sur notre site www.bannerengineering.com pour les détails sur leur utilisation correcte, les applications, les notes de sécurité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

## Models

| Family | Cascadable | Color | Length | Window | Construction | Voltage | Connector* |
|---|---|---|---|---|---|---|---|
| WLS15H | C | DW | 0360 | L | S | 24 | C2 |
| | C = Cascadable<br>X = Non-cascadable | DW = Daylight white<br>WW = Warm white | 0360 mm (1 ft)<br>0640 mm (2 ft)<br>0920 mm (3 ft)<br>1200 mm (4 ft) | L = Light Diffuse | S = Sealed<br>(IEC IP66, IEC IP67) | 24 = 24 V DC | C2 = 2 m (6.5 ft) integral PVC cable<br>QP = 150 mm (5.9 in) PVC cable with M12/Euro-style quick disconnect |

*Models with a quick disconnect require a mating cordset

## Wiring

| Pinout (Male) | Pinout (Female) | Pin | Wire Color | Connection |
|---|---|---|---|---|
|  |  | 1 | brown | 24 V DC |
| | | 3 | blue | DC common |
| | | 4 | black | Connect to 24 V DC for 50% of maximum intensity. For 100% maximum intensity, leave the black wire floating or connected to common |
| | | 2 | white | Not used |

Original Document
218059 Rev. D

4 January 2021

218059

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

# Specifications

**Supply Protection Circuitry**
Protected against reverse polarity and transient voltages
See electrical characteristics on product label

**Supply Voltage**
24 V DC (+20%/-10%)
Use only with a suitable Class 2 power supply (UL) or a SELV power supply (CE)

**Spacing Criterion**
Vertical: 1.26
Horizontal: 1.26

**Supply Current**

| Light Length | Typical Current (A) at 25°C [1] | Max. Current (A) at -40°C |
|---|---|---|
| 0360 mm | 0.285 | 0.360 |
| 0640 mm | 0.570 | 0.720 |
| 0920 mm | 0.855 | 1.080 |
| 1200 mm | 1.140 | 1.440 |

**Connections**
2 m (6.5 ft) integral PVC cable or 150 mm (6 in) PVC cable with a 4-pin M12/ Euro-style male quick disconnect
Models with a quick disconnect require a mating cordset
Do not spray cable with high-pressure sprayer or cable damage will result.

**Certifications**

**Operating Temperature**
–40 °C to +50 °C (–40 °F to +122 °F)

**Storage Temperature**
–40 °C to +70 °C (–40 °F to +158 °F)

**Environmental Rating**
Rated IEC IP66 and IEC 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

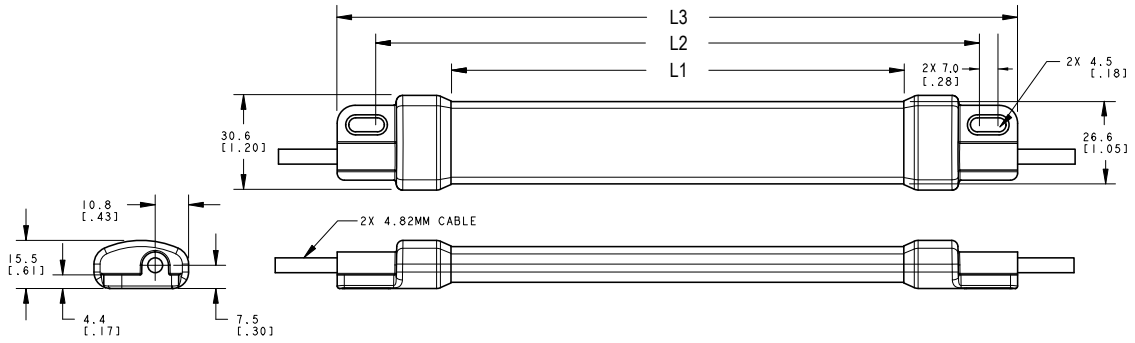
**Construction**
Clear anodized aluminum housing; Polycarbonate outer housing, Polyamide end caps

**Application Note**
When connecting cascadable lights in series, it is important not to exceed maximum current limitations:
- Maximum length of light at 24 V DC: 3.0 m (9.8 ft)
- At 50% intensity, double the lengths

**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 inches) of the light

**Note:** 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 endcap 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.

# Dimensions




| Models | L1 | L2 | L3 |
|---|---|---|---|
| WLS15..0360.. | 286.4 mm (11.28 inches) | 334 mm (13.15 inches) | 360 mm (14.17 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) |

[1] Values 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 1.440 A at -40°C and 1.026 A at +50°C.

## Banner Engineering Corp Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

**THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.**

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. **IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.**

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp. Any misuse, abuse, or improper application or installation of this product or use of the product for personal protection applications when the product is identified as not intended for such purposes will void the product warranty. Any modifications to this product without prior express approval by Banner Engineering Corp will void the product warranties. All specifications published in this document are subject to change; Banner reserves the right to modify product specifications or update documentation at any time. Specifications and product information in English supersede that which is provided in any other language. For the most recent version of any documentation, refer to: www.bannerengineering.com.

For patent information, see www.bannerengineering.com/patents.

## Mexican Importer

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



© Banner Engineering Corp. All rights reserved