

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. 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 for details on the proper use, applications, Warnings, and installation instructions of this device.

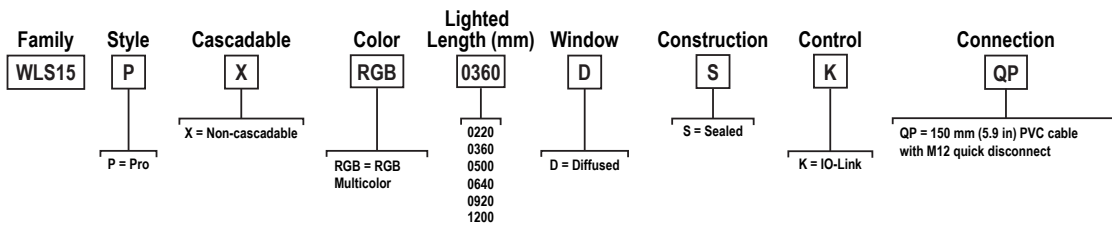


Important: Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los WLS15 Pro LED Strip Light with IO-Link, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones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



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



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.

For the latest IODD files, please refer to the Banner Engineering Corp website at: 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

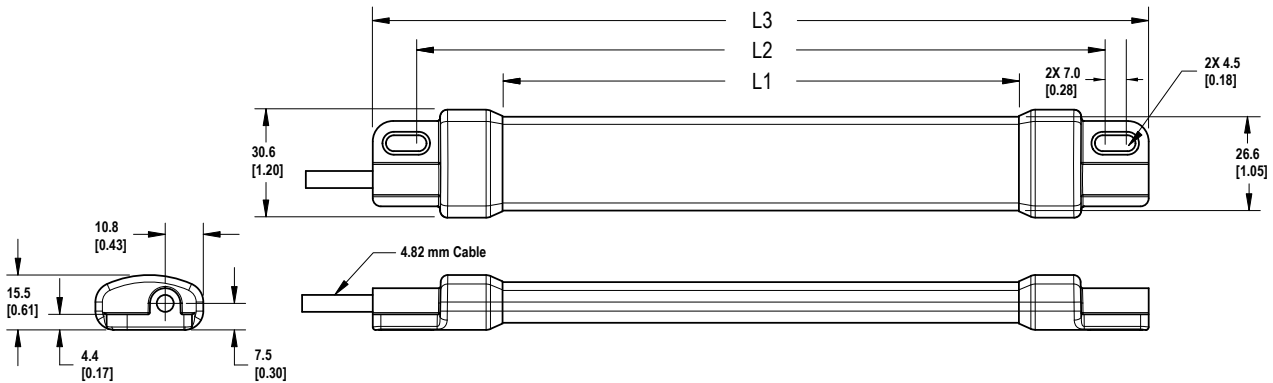
Operating Temperature

-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) |