WLS27 Multicolor LED Strip Light with EZ-STATUS™



Datasheet

This guide is designed to help you set up and install the WLS27 Multicolor 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 201896 to view the Instruction Manual. Use of this document assumes familiarity with pertinent industry standards and practices.



Important: Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los WLS27 Multicolor LED Strip Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

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Important: Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des WLS27 Multicolor 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



Wiring Diagrams

| Male | Female | Pin | Wire Color | Description |
|------|--|-----|------------|-------------|
| | $4 \qquad \qquad$ | 1 | Brown | Input 1 |
| | | 2 | White | Input 3 |
| | | 3 | Blue | dc common |
| | | 4 | Black | Input 2 |

| Color Override Control (Color 3 overrides Colors 1 and 2, Color 2 overrides Color 1) | | | 5 Color Binary Control (Binary input state controls color) | | | | |
|--|------------------------------|------------------------------|--|------------------------------|------------------------------|------------------------------|------------|
| Input 1: Pin 1 Brown Wire | Input 2: Pin 4 Black Wire | Input 3: Pin 2 White Wire | LED Color | Input 1: Pin 1 Brown Wire | Input 2: Pin 4 Black Wire | Input 3: Pin 2 White Wire | LED Color |
| - | _ | _ | Light OFF | _ | - | — | Light OFF |
| +24 V dc | _ | - | Color 1 ON | +24 V dc | _ | - | Color 1 ON |
| - | +24 V dc | - | Color 2 ON | - | +24 V dc | - | Color 2 ON |
| +24 V dc | +24 V dc | _ | Color 2 ON | - | _ | +24 V dc | Color 3 ON |
| _ | _ | +24 V dc | Color 3 ON | +24 V dc | +24 V dc | - | Color 4 ON |
| +24 V dc | _ | +24 V dc | Color 3 ON | +24 V dc | _ | +24 V dc | Color 5 ON |
| - | +24 V dc | +24 V dc | Color 3 ON | - | +24 V dc | +24 V dc | Light OFF |
| +24 V dc | +24 V dc | +24 V dc | Color 3 ON | +24 V dc | +24 V dc | +24 V dc | Light OFF |



| Color I/O Block Control (Input 1 is always ON through the block) | | | | | |
|--|---------------------------|---------------------------|------------|--|--|
| Input 1: Pin 1 Brown Wire | Input 2: Pin 4 Black Wire | Input 3: Pin 2 White Wire | LED Color | | |
| +24 V dc | _ | - | Light OFF | | |
| +24 V dc | +24 V dc | | Color 1 ON | | |
| +24 V dc | - | +24 V dc | Color 2 ON | | |
| +24 V dc | +24 V dc | +24 V dc | Color 3 ON | | |

Specifications

Supply Voltage 24 V dc (+ 20% / - 10%) Use only with suitable Class 2 power supply (UL) or a SELV power supply (CE) See electrical characteristics on product label

| Lighted Length | Typical Current (A) at 25° C ¹ | Maximum Current (A) | |
|----------------|---|---------------------|--|
| 285 mm | 0.315 | 0.400 | |
| 570 mm | 0.630 | 0.800 | |
| 850 mm | 0.945 | 1.200 | |
| 1130 mm | 1.260 | 1.600 | |

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Application Notes 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)

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

Mounting

Bracket LMBWLS27EC included (2 for lights up to 570 mm or 3 for lights 850 mm and longer)

Construction Clear anodized aluminum inner housing and FDA-grade copolyester outer housing

Connections Integral 4-pin M12/Euro-style male quick disconnect

Environmental Rating Rated IEC IP66, IEC IP67, and IP69K per DIN 40050-9

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

CE c(VL)US LISTED

Dimensions

L3 L2 L1

Quick Disconnect Models

Cascade Models



| Models | LI | 12 | L3 | L4 |
|-----------|-------------------|-------------------|---------------------|-------------------|
| WLS270285 | 286 mm (11.3 in) | 330 (13 in) | 349.5 mm (13.8 in) | 358 mm (14.1 in) |
| WLS270570 | 569 mm (22.4 in) | 612 mm (24.1 in) | 631.5 mm (24.9 in) | 640 mm (25.2 in) |
| WLS270850 | 849 mm (33.4 in) | 893 mm (35.2 in) | 912.5 mm (35.9 in) | 921 mm (36.2 in) |
| WLS271130 | 1120 mm (44.1 in) | 1164 mm (45.8 in) | 1183.5 mm (46.4 in) | 1192 mm (46.9 in) |

¹ Values shown at 25 °C - current and lumen values decrease 0.4% per 1 °C from ambient. For example, a 1130 mm unit will have a maximum current of 1.600 A at -40 °C and 1.134 A at +50 °C.

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