# WLS27 Multicolor LED Strip Light with EZ-STATUS™ Quick Start Guide

## Important Information

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 Product Manual at www.bannerengineering.com. Search for part number 201896 to view the Product 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 WLS27 Multicolor 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.

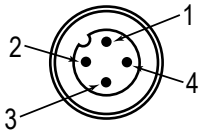
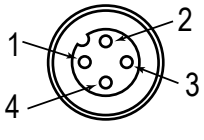
**IMPORTANT:** Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los WLS27 Multicolor LED Strip Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones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

**IMPORTANT:** Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des 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

| Family | Cascadable | Colors 1-5 and Control | — | Lighted Length (mm) | Window | Construction | Voltage | Connector[1] |
|---|---|---|---|---|---|---|---|---|
| **WLS27** | **X** | **WGRXX3** | **—** | **0285** | **D** | **S** | **24** | **Q** |
| | C = Cascadable<br>X = Non-cascadable | WGRXX3 = White, Green, Red with override control<br>WYRXX3 = White, Yellow, Red with override control<br>GYRXX3 = Green, Yellow, Red with override control<br>WGRYB5 = White, Green, Red, Yellow, Blue with binary control<br>WGRXX6 = White, Green, Red with I/O Block control<br>WYRXX6 = White, Yellow, Red with I/O Block control<br>GYRXX6 = Green, Yellow, Red with I/O Block control | | 0285<br>0570<br>0850<br>1130 | D = Diffused<br>H = Heavy diffused | S = Sealed | 24 = 24 V DC | Q = Integral 4-pin M12 male quick-disconnect connector |

## Wiring

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

*3 Color Override Control (Color 3 overrides Colors 1 and 2, Color 2 overrides Color 1)*

| Input 1: Pin 1 Brown Wire | Input 2: Pin 4 Black Wire | Input 3: Pin 2 White Wire | LED Color |
|---|---|---|---|
| — | — | — | Light OFF |
| +24 V DC | — | — | Color 1 ON |
| — | +24 V DC | — | Color 2 ON |

Continued on page 2

[1] Models with a quick-disconnect connector require a mating cordset.

Original Instructions
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p/n: 201895 Rev. F

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| Input 1: Pin 1 Brown Wire | Input 2: Pin 4 Black Wire | Input 3: Pin 2 White Wire | LED Color |
|---|---|---|---|
| +24 V DC | +24 V DC | — | Color 2 ON |
| — | — | +24 V DC | Color 3 ON |
| +24 V DC | — | +24 V DC | Color 3 ON |
| — | +24 V DC | +24 V DC | Color 3 ON |
| +24 V DC | +24 V DC | +24 V DC | Color 3 ON |

*3 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 |

*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 |
|---|---|---|---|
| — | — | — | Light OFF |
| +24 V DC | — | — | Color 1 ON |
| — | +24 V DC | — | Color 2 ON |
| — | — | +24 V DC | Color 3 ON |
| +24 V DC | +24 V DC | — | Color 4 ON |
| +24 V DC | — | +24 V DC | Color 5 ON |
| — | +24 V DC | +24 V DC | Light OFF |
| +24 V DC | +24 V DC | +24 V DC | Light OFF |

# Specifications

**Supply Protection Circuitry**

Protected against reverse polarity and transient voltages

**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

**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.

**Connections**

Integral 4-pin M12 male quick-disconnect connector

**Environmental Rating**

Rated IP66, IP67, and IP69K per ISO 20653

**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)

**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[2] | Maximum Current (A) |
|---|---|---|
| 285 mm | 0.315 | 0.4 |
| 570 mm | 0.63 | 0.8 |
| 850 mm | 0.945 | 1.2 |
| 1130 mm | 1.26 | 1.6 |

**Certifications**

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Wickford, Essex SS11 8YT
GREAT BRITAIN

[2] 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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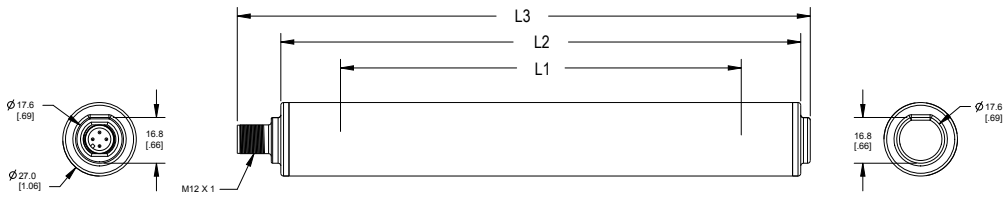
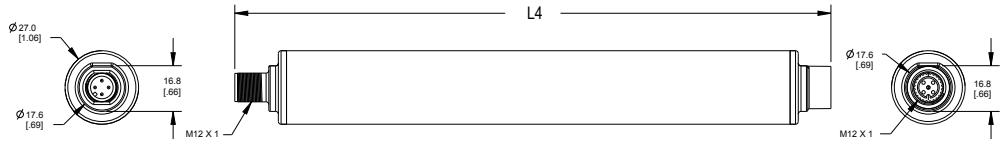
# Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.

*Quick Disconnect Models*




*Cascade Models*




| Models | L1 | L2 | L3 | L4 |
|---|---|---|---|---|
| WLS27..0285.. | 286 mm (11.3 in) | 332 mm (13.1 in) | 351.5 mm (13.8 in) | 360 mm (14.2 in) |
| WLS27..0570.. | 568 mm (22.4 in) | 614 mm (24.2 in) | 633.5 mm (24.9 in) | 642 mm (25.3 in) |
| WLS27..0850.. | 850 mm (33.4 in) | 896 mm (35.3 in) | 915.5 mm (36 in) | 924 mm (36.4 in) |
| WLS27..1130.. | 1132 mm (44.6 in) | 1178 mm (46.4 in) | 1197.5 mm (47.1 in) | 1206 mm (47.5 in) |

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

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