

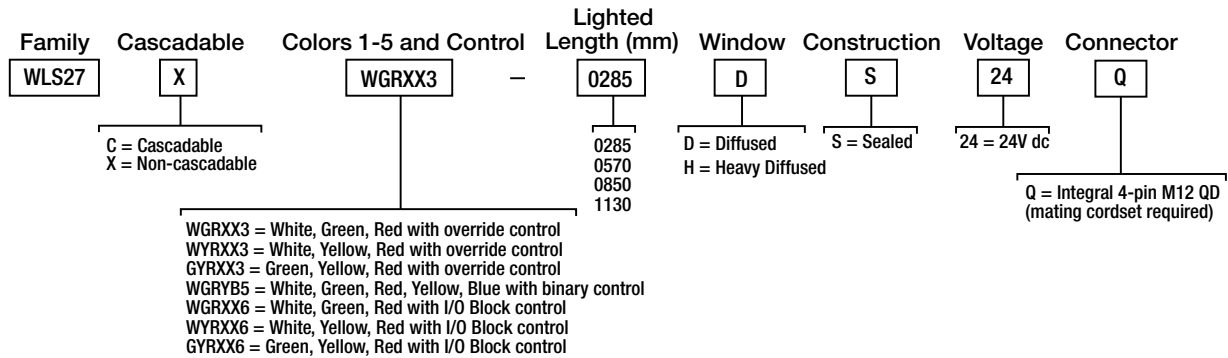
WLS27 Multicolor LED Strip Light with EZ-STATUS™



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.

Models



Wiring Diagrams

| 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 |
| +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 |

| 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 |

| 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 |



Specifications

Supply Voltage

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

| 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 quick disconnect

Environmental Rating

Rated IEC IP66, IEC IP67, and DIN IP69K

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)

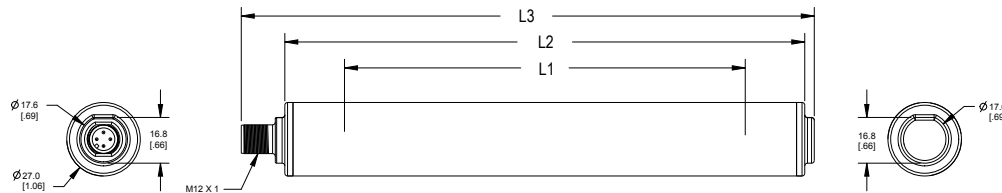
Storage Temperature: -40 °C to +70 °C (-40 °F to +158 °F)

Certifications

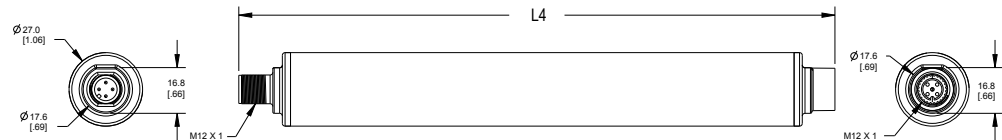


Dimensions

Quick Disconnect Models



Cascade Models



| Models | L1 | L2 | L3 | L4 |
|---------------|-------------------|-------------------|---------------------|-------------------|
| WLS27..0285.. | 286 mm (11.3 in) | 330 (13 in) | 349.5 mm (13.8 in) | 358 mm (14.1 in) |
| WLS27..0570.. | 569 mm (22.4 in) | 612 mm (24.1 in) | 631.5 mm (24.9 in) | 640 mm (25.2 in) |
| WLS27..0850.. | 849 mm (33.4 in) | 893 mm (35.2 in) | 912.5 mm (35.9 in) | 921 mm (36.2 in) |
| WLS27..1130.. | 1120 mm (44.1 in) | 1164 mm (45.8 in) | 1183.5 mm (46.4 in) | 1192 mm (46.9 in) |

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

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.