# WLS27 Multicolor LED Strip Light with EZ-STATUS™



## Quick Start Guide

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 <a href="https://www.bannerengineering.com">www.bannerengineering.com</a>. Search for p/n 201896 to view the Instruction 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.

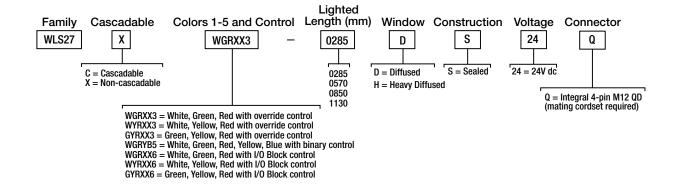


**Important:** Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los WLS27 Multicolor LED Strip Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones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



## Wiring Diagrams

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

olor 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	

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		



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	<del>-</del>	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.

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

### Connections

Integral 4-pin M12 male quick-disconnect connector

Environmental Rating
Rated IP66, 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

 $\begin{tabular}{lll} \textbf{Operating Temperature} & -40 °C to +50 °C (-40 °F to +122 °F) \\ \textbf{Storage Temperature:} & -40 °C to +70 °C (-40 °F to +158 °F) \\ \end{tabular}$ 

Lighted Length	Typical Current (A) at 25° C 1	Meximum 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

### Certifications









**Banner Engineering BV** Park Lane, Culliganlaan 2F bus 3, 1831 Diegem, BELGIUM

**Turck Banner LTD** Blenheim House, Blenheim Court, Wickford, Essex SS11 8YT, Great Britain

### **Dimensions**

Figure 1. Quick Disconnect Models

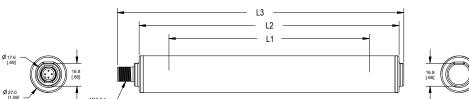
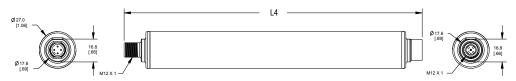


Figure 2. Cascade Models



Models	L1	L2	L3	L4
WLS270285	286 mm (11.3 in)	332 mm (13.1 in)	351.5 mm (13.8 in)	360 mm (14.2 in)

<sup>1</sup> 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.

Models	L1	12	L3	L4
WLS270570	568 mm (22.4 in)	614 mm (24.2 in)	633.5 mm (24.9 in)	642 mm (25.3 in)
WLS270850	850 mm (33.4 in)	896 mm (35.3 in)	915.5 mm (36 in)	924 mm (36.4 in)
WLS271130	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.

## Mexican Importer

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