

WLS27 Multicolor LED Strip Light with EZ-STATUS™



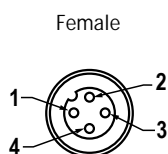
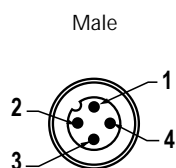
Quick Start Guide

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 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

Family	Cascadable	Colors 1-5 and Control	Lighted Length (mm)	Window	Construction	Voltage	Connector
WLS27	X	WGRXX3	0285	D	S	24	Q
	C = Cascadable X = Non-cascadable	WGRXX3 = White, Green, and Red with override control WYRXX3 = White, Yellow, and Red with override control GYRXX3 = Green, Yellow, and Red with override control WGRYB5 = White, Green, Red, Yellow, and Blue with binary control WGRXX6 = White, Green, and Red with I/O Block control WYRXX6 = White, Yellow, and Red with I/O Block control GYRXX6 = Green, Yellow, and Red with I/O Block control	0285 0570 0850 1130	D = Diffused	S = Sealed	24 = 24V dc	Q = Integral 4-pin M12 QD (mating cordset required)

Wiring Diagrams



Key
Pin 1 Brown Input 1
Pin 2 White: Input 3
Pin 3 Blue: DC Common
Pin 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 male quick disconnect (QD)

Environmental Rating

Rated IEC IP66, IEC IP67, and IEC IP69K, per DIN 40050

Vibration and Mechanical Shock

Vibration 10 Hz to 55 Hz 1.0 mm p-p 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)

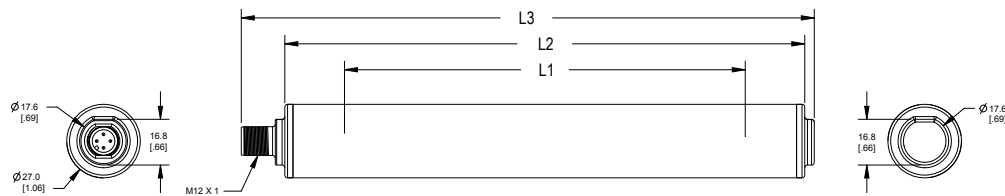
Storage Temperature: -40 °C to +70 °C (-40 °F to +158 °F)

Certifications

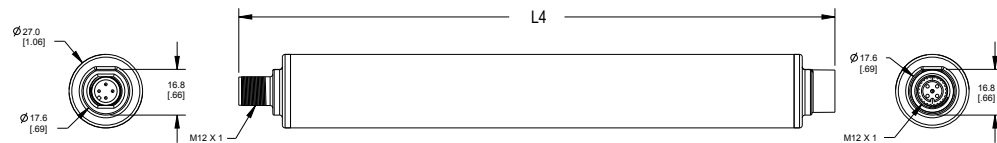


Dimensions

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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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.