

# WLS27 LED Strip Light



## Quick Start Guide

For complete technical information about this product, including installation instructions, application requirements and guidelines, technical specifications, and accessories, go to [www.bannerengineering.com](http://www.bannerengineering.com) and search for 185590.



**Important:** Read the following instructions before operating the light. Please download the complete WLS27 LED Strip Light technical documentation, available in multiple languages, from [www.bannerengineering.com](http://www.bannerengineering.com) for details on the proper use, applications, Warnings, and installation instructions of this device.

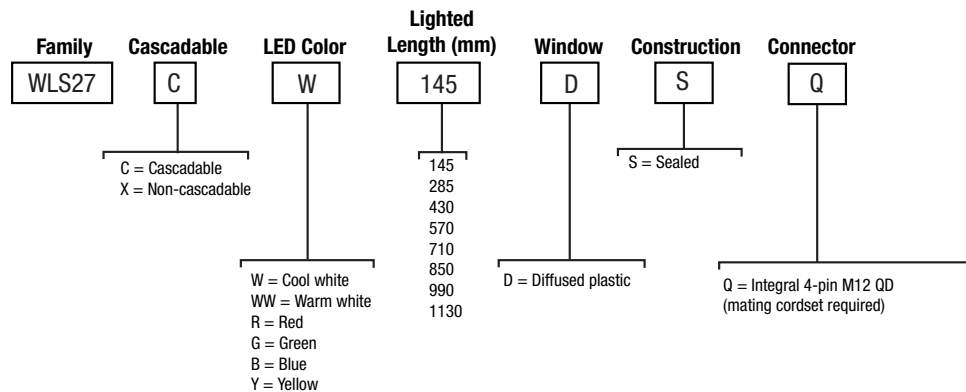


**Important:** Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde [www.bannerengineering.com](http://www.bannerengineering.com) toda la documentación técnica de los WLS27 LED Strip Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, 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 LED Strip Light sur notre site [www.bannerengineering.com](http://www.bannerengineering.com) pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

## Models



## Specifications

Light Length	Typical Current			Max. Current
	12 V DC	24 V DC	30 V DC	A
145 mm	0.33 A	0.15 A	0.12 A	0.4
285 mm	0.66 A	0.30 A	0.24 A	0.8
430 mm	1.01 A	0.46 A	0.36 A	1.2
570 mm	1.36 A	0.61 A	0.48 A	1.6
710 mm	1.75 A	0.77 A	0.60 A	2.0
850 mm	2.13 A	0.92 A	0.73 A	2.4
990 mm	2.59 A	1.08 A	0.85 A	2.8
1130 mm	3.04 A	1.24 A	0.97 A	3.2

### Supply Voltage

12 to 30 V DC  
Use only with a suitable Class 2 power supply (UL) or SELV power supply (CE)  
See electrical characteristics on product label

### Supply Protection Circuitry

Protected against reverse polarity and transient voltages

### Construction

Clear anodized aluminum housing; FDA-grade copolyester outer housing

### Mounting

Bracket LMBWLS27EC included (2 for lights up to 570 mm or 3 for lights 710 mm and longer)

### Connections

Integral 4-pin M12 male quick-disconnect connector (4-pin connecting cordset required)

### Environmental Rating

Rated IP66, IP67, and IP69K per DIN 40050-9



**Application Note**

When connecting cascadable lights in series at 100% intensity, it is important not to exceed maximum current limitations:

- Maximum length of light at 12 V DC: 1.4 m (4.6 ft)
- Maximum length of light at 24 V DC: 3.0 m (9.8 ft)
- Maximum length of light at 30 V DC: 3.1 m (10.2 ft)

At 50% intensity, double the lengths.



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

**Operating Temperature**

-40 °C to +70 °C (-40 °F to +158 °F)  
 Light output begins to decrease above 50 °C (122 °F) and will be approximately 65% of max intensity at 60 °C (140 °F) and 30% of max intensity at 70 °C (158 °F)

**Storage Temperature**

-40 °C to +70 °C (-40 °F to +158 °F)

**Vibration and Mechanical Shock**

Vibration 10-55 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

**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

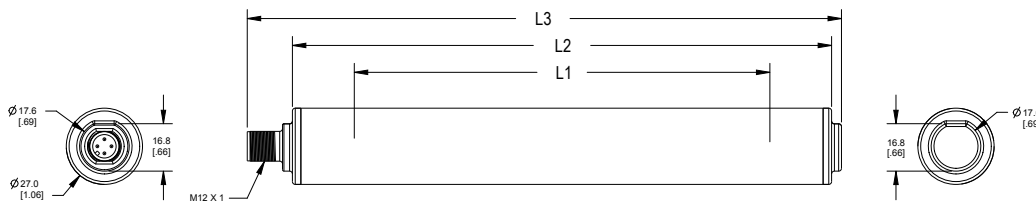
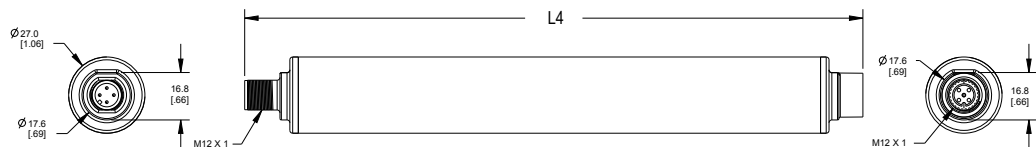


Figure 2. Cascade Models



Models	L1	L2	L3	L4
WLS27..145..	145 mm (5.7 in)	191 mm (7.5 in)	210.5 mm (8.3 in)	219 mm (8.6 in)
WLS27..285..	286 mm (11.3 in)	332 mm (13.1 in)	351.5 mm (13.8 in)	360 mm (14.2 in)
WLS27..430..	427 mm (16.8 in)	473 mm (18.6 in)	492.5 mm (19.4 in)	501 mm (19.7 in)
WLS27..570..	568 mm (22.4 in)	614 mm (24.2 in)	633.5 mm (24.9 in)	642 mm (25.3 in)
WLS27..710..	709 mm (27.9 in)	755 mm (29.7 in)	774.5 mm (30.5 in)	783 mm (30.8 in)
WLS27..850..	850 mm (33.5 in)	896 mm (35.3 in)	915.5 mm (36 in)	924 mm (36.4 in)
WLS27..990..	991 mm (39 in)	1037 mm (40.8 in)	1056.5 mm (41.6 in)	1065 mm (41.9 in)
WLS27..1130..	1132 mm (44.6 in)	1178 mm (46.4 in)	1197.5 mm (47.1 in)	1206 mm (47.5 in)

**Wiring Diagram**

4-pin M12/Euro-style male QD	Pin	Wire Color	Connection
	1	brown	12 to 30 V DC
	3	blue	DC common
	4	black	Connect to 12 to 30 V DC for 50% maximum intensity. For maximum intensity, leave the black wire floating or connected to common
	2	white	Not used