

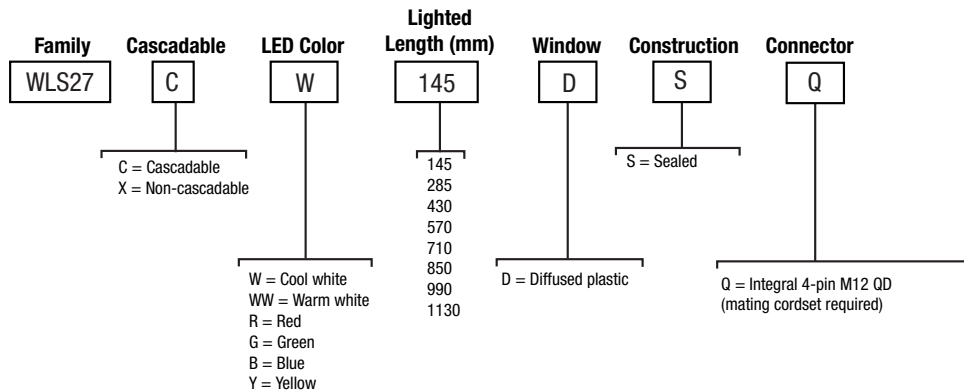
# WLS27 LED Strip Light



## Datasheet

For additional technical information about this product, including complete instructions, dimensions, accessories, and specifications, see <http://www.bannerengineering.com> and search for 185590.

## Models



## Specifications

### Supply Voltage

12 to 30 V dc  
Use only with suitable Class 2 power supply (UL) or a SELV power supply (CE).

### Supply Protection Circuitry

Protected against reverse polarity and transient voltages

### 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.

### 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 (QD) (4-pin connecting cordset required)

### Certifications



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

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

### Environmental Rating

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

### 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



## Dimensions

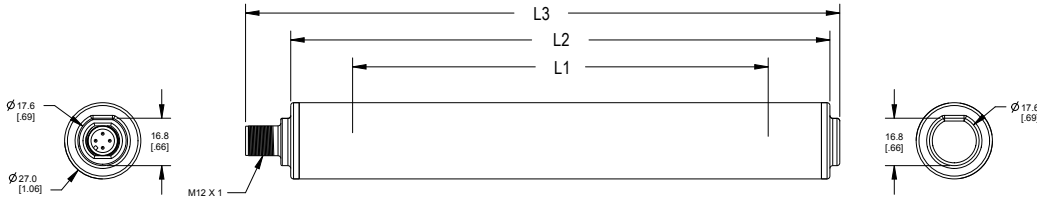


Figure 1. Quick Disconnect Models

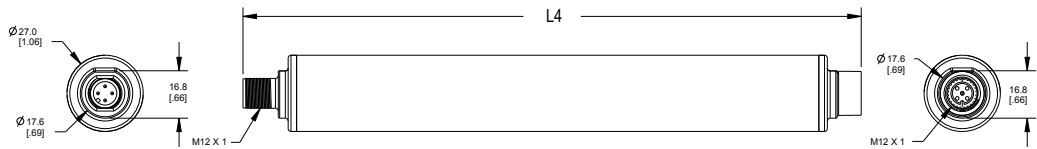


Figure 2. Cascade Models

Models	L1	L2	L3	L4
WLS27..145..	145 mm (5.7 in)	189 mm (7.4 in)	208.5 mm (8.2 in)	217 mm (8.5 in)
WLS27..285..	286 mm (11.3 in)	330 (13 in)	349.5 mm (13.8 in)	358 mm (14.1 in)
WLS27..430..	427 mm (16.8 in)	471 mm (18.5 in)	490.5 mm (13.3 in)	499 mm (19.6 in)
WLS27..570..	569 mm (22.4 in)	612 mm (24.1 in)	631.5 mm (24.9 in)	640 mm (25.2 in)
WLS27..710..	708 mm (27.9 in)	752 mm (29.6 in)	771.5 mm (30.4 in)	780 mm (30.7 in)
WLS27..850..	849 mm (33.4 in)	893 mm (35.2 in)	912.5 mm (35.9 in)	921 mm (36.2 in)
WLS27..990..	991 mm (39 in)	1035 mm (40.8 in)	1054.5 mm (41.5 in)	1063 mm (41.8 in)
WLS27..1130..	1120 mm (44.1 in)	1164 mm (45.8 in)	1183.5 mm (46.4 in)	1192 mm (46.9 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

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