WLS27 Pro LED Strip Light Quick Start Guide

Important Information

This guide is designed to help you set up and install the WLS27 Pro LED Strip Light. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Product Manual at www.bannerengineering.com. Search for part number 214239 to view the Product 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 Pro 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.

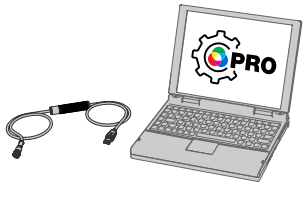
IMPORTANT: Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los WLS27 Pro LED Strip Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de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

IMPORTANT: Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des WLS27 Pro 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

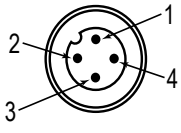
Family	Style	Cascadable	Color	Lighted Length (mm)	Window	Construction	Connector
WLS27	**P**	**X**	**RGBW**	**285**	**D**	**S**	**Q**
	P = Pro	X = Non-cascadable	RGBW = RGBW multicolor	145 285 430 570 850 1130	D = Diffused H = Heavy diffused	S = Sealed	Q = Integral 4-pin M12 male quick-disconnect connector

Pro Editor



Use Banner's Pro Editor software and Pro Converter Cable to create custom configurations by selecting different colors, flash patterns, and animations.
For more information visit www.bannerengineering.com/proeditor.

Wiring

4-pin M12 Male	Pin	Wire Color	Description[1]
	1	Brown	Input 1
	2	White	Input 3
	3	Blue	DC common
	4	Black	Input 2

[1] Input functionality can change depending on the configuration created with Pro Editor.

Original Instructions
09-Sep-25

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p/n: 211896 Rev. C

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

7 Color Binary Control (Binary input state controls color, default configuration)

Input 1: Pin 1 Brown Wire	Input 2: Pin 4 Black Wire	Input 3: Pin 2 White Wire	LED Color
—	—	—	Light OFF
18 V DC to 30 V DC	—	—	Daylight White
—	18 V DC to 30 V DC	—	Green
—	—	18 V DC to 30 V DC	Red
18 V DC to 30 V DC	18 V DC to 30 V DC	—	Yellow
18 V DC to 30 V DC	—	18 V DC to 30 V DC	Blue Bounce with Daylight White Background
—	18 V DC to 30 V DC	18 V DC to 30 V DC	Daylight White with Red Ends Flash
18 V DC to 30 V DC	18 V DC to 30 V DC	18 V DC to 30 V DC	Warm White

Specifications

Supply Voltage

18 V DC to 30 V DC

Use only with suitable Class 2 power supply (UL) or a SELV power supply (CE)

Light Length	Typical Current			Maximum Current
	18 V DC	24 V DC	30 V DC	A
145 mm	0.24	0.18	0.15	0.275
285 mm	0.48	0.36	0.3	0.55
430 mm	0.72	0.54	0.45	0.825
570 mm	0.96	0.72	0.6	1.1
850 mm	1.44	1.08	0.9	1.65
1130 mm	1.92	1.44	1.2	2.2

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

NOTE: 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)

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

Construction

Clear anodized aluminum inner housing and FDA-grade copolyester outer housing

Connections

Integral 4-pin M12 male quick-disconnect connector

Environmental Rating

Rated IP66, IP67, and IP69K per ISO 20653

Operating Temperature

–40 °C to +50 °C (–40 °F to +122 °F)

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

Required Overcurrent Protection

WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to www.bannerengineering.com.

Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	2.0	30	0.5

Certifications

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1831 Diegem, BELGIUM

Turck Banner LTD Blenheim House
Blenheim Court
Wickford, Essex SS11 8YT
GREAT BRITAIN

Advanced Capabilities

PULSE® PRO I/O

FCC Part 15 Class B for Unintentional Radiators

(Part 15.105(b)) This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this

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equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

(Part 15.21) Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Industry Canada ICES-003(B)

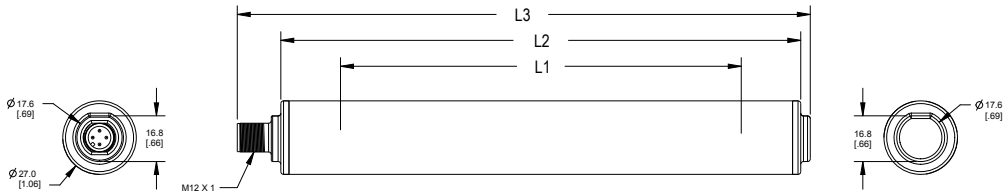
This device complies with CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions: 1) This device may not cause harmful interference; and 2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la norme NMB-3(B). Le fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne peut pas occasionner d'interférences, et (2) il doit tolérer toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité du dispositif.

Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.

Quick Disconnect Models



Models	L1	L2	L3
WLS27..145..	145 mm (5.7 in)	191 mm (7.5 in)	210.5 mm (8.3 in)
WLS27..285..	286 mm (11.3 in)	332 mm (13.1 in)	351.5 mm (13.8 in)
WLS27..430..	427 mm (16.8 in)	473 mm (18.6 in)	492.5 mm (19.4 in)
WLS27..570..	568 mm (22.4 in)	614 mm (24.2 in)	633.5 mm (24.9 in)
WLS27..850..	850 mm (33.5 in)	896 mm (35.3 in)	915.5 mm (36 in)
WLS27..1130..	1132 mm (44.6 in)	1178 mm (46.4 in)	1197.5 mm (47.1 in)

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

Mexican Importer

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