# WLS27 Pro LED Strip Light

## Quick Start Guide

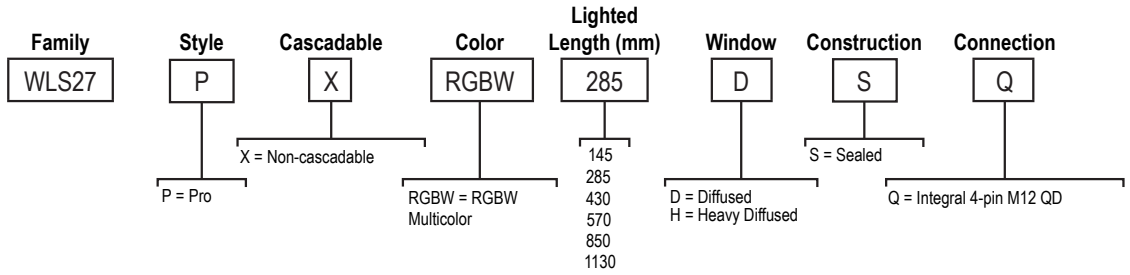
This guide is designed to help you set up and install the WLS27 Pro LED Strip Light. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual at www.bannerengineering.com. Search for p/n 214239 to view the Instruction Manual.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

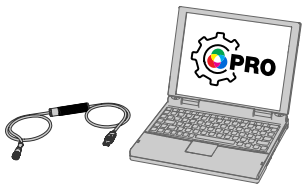
**Important:** Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los WLS27 Pro LED Strip Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones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



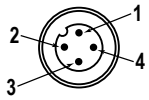

## Pro Editor




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 Diagrams

| 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 configuration created with Pro Editor.

| 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 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 DIN 40050-9

**Operating Temperature**
–40 °C to +50 °C (–40 °F to +122 °F)
**Storage Temperature:** –40 °C to +70 °C (–40 °F to +158 °F)

**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 | 0.240 | 0.180 | 0.150 | 0.275 |
| 285 mm | 0.480 | 0.360 | 0.300 | 0.550 |
| 430 mm | 0.720 | 0.540 | 0.450 | 0.825 |
| 570 mm | 0.960 | 0.720 | 0.600 | 1.100 |
| 850 mm | 1.440 | 1.080 | 0.900 | 1.650 |
| 1130 mm | 1.920 | 1.440 | 1.200 | 2.200 |

**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 (Amps) |
|---|---|
| 20 | 5.0 |
| 22 | 3.0 |
| 24 | 2.0 |
| 26 | 1.0 |
| 28 | 0.8 |
| 30 | 0.5 |

**Certifications**

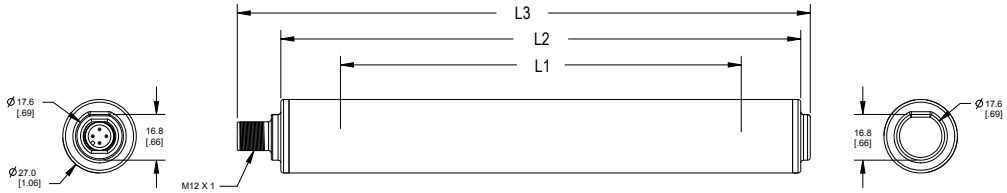
**Banner Engineering BV** Park Lane, Culliganlaan 2F bus 3, 1831 Diegem, BELGIUM

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

**Advanced Capabilities**

## Dimensions

*Figure 1. 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.

## FCC Part 15 Class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## Industry Canada

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.

## Mexican Importer

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San Pedro Garza Garcia Nuevo Leòn, C. P. 66269
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