# Features

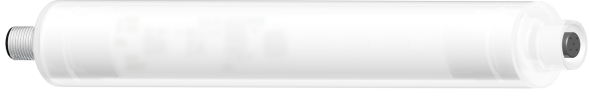
Banner's WLS27 Segmented LED Strip Light has a sturdy aluminum housing and is encased in a shatterproof, UV-stabilized, copolyester shell, making it ideal for harsh indoor and outdoor applications.

- Ultra-bright, multi-segment indicator
- Models with 2 or 3 segments available in two different segment sizes
- Rugged, water-resistant IP69K per ISO 20653 rating
- Four available lengths: 285 mm, 430 mm, 570 mm, or 850 mm
- Daisy chain power to multiple lights
- Heavy diffused housing option provides softer, more uniform light

*Stand-alone light or end light in a cascade*



*First or middle of a cascade*



Available as stand-alone models or as cascade models that can be daisy-chained together for a continuous length of lighting, with a minimum of wiring.

Stand-alone models have a male quick disconnect at one end for power connection and no connections at the opposite end. A stand-alone model may be used as the last model in the cascade series.

Cascade models have a male quick disconnect at one end for power connection and a female quick disconnect at the opposite end for connecting to other lights in the cascade. A double-ended accessory cordset must be used between each pair of lights in a cascade.

**IMPORTANT:** Read the following instructions before operating the light. Please download the complete WLS27 Segmented 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 Segmented 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 Segmented 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 | Cascadable | Color Segments and Length | — | Window | Construction | Voltage | Connector[1] |
|---|---|---|---|---|---|---|---|
| **WLS27** | **X** | **GYR3S-0859** | **—** | **D** | **S** | **24** | **Q** |
| | C = Cascadable<br>X = Non-cascadable | GRX2S-0285 = Two 145 mm segments; Green, Red<br>GRX2S-0570 = Two 285 mm segments; Green, Red<br>GYR3S-0430 = Three 145 mm segments; Green, Yellow, Red<br>GYR3S-0850 = Three 285 mm segments; Green, Yellow, Red | | D = Diffused<br>H = Heavy diffused | S = Sealed | 24 = 24 V DC | Q = Integral 4-pin M12 male quick-disconnect connector |

[1] Models with a quick-disconnect connector require a mating cordset.

Original Instructions
09-Sep-25

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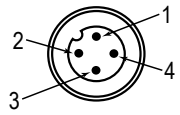
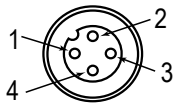
209343
p/n: 209343 Rev. C

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

# Wiring

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

*Two Segment Strip Lights*

| Input 1: Pin 1 Brown Wire | Input 2: Pin 4 Black Wire | LED Color |
|---|---|---|
| - | - | Light OFF |
| +24 V DC | - | Segment 1 ON |
| - | +24 V DC | Segment 2 ON |
| +24 V DC | +24 V DC | Segment 1 and 2 ON |

*Three Segment Strip Lights*

| 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 | - | - | Segment 1 ON |
| - | +24 V DC | - | Segment 2 ON |
| +24 V DC | +24 V DC | - | Segment 1 and 2 ON |
| - | - | +24 V DC | Segment 3 ON |
| +24 V DC | - | +24 V DC | Segment 1 and 3 ON |
| - | +24 V DC | +24 V DC | Segment 2 and 3 ON |
| +24 V DC | +24 V DC | +24 V DC | Segment 1, 2, and 3 ON |

# Specifications

**Supply Protection Circuitry**

Protected against reverse polarity and transient voltages

**Mounting**

Bracket **LMBWLS27EC** included (2 for lights up to 570 mm or 3 for 850 mm lights)

**Connections**

Integral 4-pin M12 male quick-disconnect connector

**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.

**Construction**

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

**Environmental Rating**

IP66, IP67, and IP69K per ISO 20653

**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

**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**

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1831 Diegem, BELGIUM

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


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**Supply Voltage**

24 V DC (+ 20% / - 10%)

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

See electrical characteristics on product label

| Lighted Length | Segments | Typical Current (A) at 25° C per Segment (2) | Typical Current (A) at 25 °C for all Segments | Maximum Current (A) |
|---|---|---|---|---|
| 285 mm | 2 | 0.155 | 0.36 | 0.4 |
| 430 mm | 3 | 0.155 | 0.54 | 0.6 |
| 570 mm | 2 | 0.315 | 0.63 | 0.8 |
| 850 mm | 3 | 0.315 | 0.945 | 1.2 |

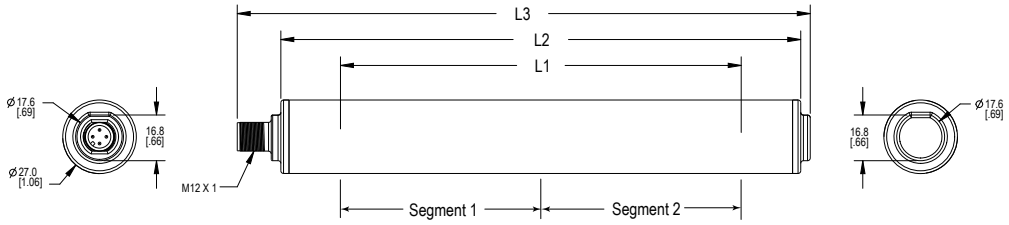
**Light Characteristics**

| Color | Dominant Wavelength (nm) or Color Temperature | Lighted Length Lumens (Typical at 25 °C)(2) | |
|---|---|---|---|
| | | 285 and 430 mm | 570 and 850 mm |
| Green | 525 nm | 150 | 400 |
| Yellow | 580 nm | 215 | 570 |
| Red | 625 nm | 70 | 185 |

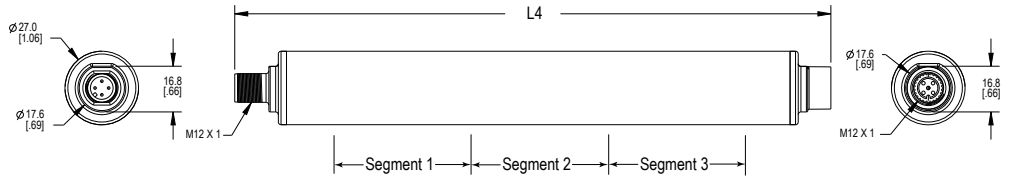
# Dimensions

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

*Non-cascade models, two segment example model shown*




*Cascade models, three segment example model shown*




| Models | L1 | L2 | L3 | L4 | Segment 1 | Segment 2 | Segment 3 |
|---|---|---|---|---|---|---|---|
| WLS27..0285.. | 286 mm (11.3 in) | 332 mm (13.1 in) | 351.5 mm (13.8 in) | 360 mm (14.2 in) | 143 mm (5.7 in) | 143 mm (5.7 in) | - |
| WLS27..0430.. | 427 mm (16.8 in) | 473 mm (18.6 in) | 492.5 mm (19.4 in) | 501 mm (19.7 in) | 143 mm (5.7 in) | 143 mm (5.7 in) | 143 mm (5.7 in) |
| WLS27..0570.. | 568 mm (22.4 in) | 614 mm (24.2 in) | 633.5 mm (24.9 in) | 642 mm (25.3 in) | 286 mm (11.3 in) | 286 mm (11.3 in) | - |
| WLS27..0850.. | 850 mm (33.5 in) | 896 mm (35.3 in) | 915.5 mm (36 in) | 924 mm (36.4 in) | 286 mm (11.3 in) | 286 mm (11.3 in) | 286 mm (11.3 in) |

# Accessories

## Cordsets

Use single-ended cordsets between the power source and the quick-disconnect connection of a stand-alone light or the first light in a cascade. Use double-ended cordsets between lights in a cascade.

(2) Values are shown at 25 °C. Current and lumen values decrease 0.4% per 1 °C from the ambient temperature. For example, an 850 mm unit will have a maximum current of 0.851 A at -40 °C and 1.2 A at +50 °C.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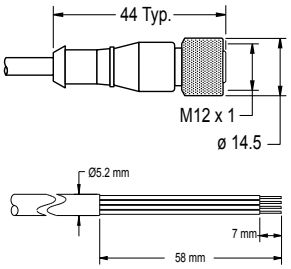
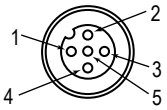
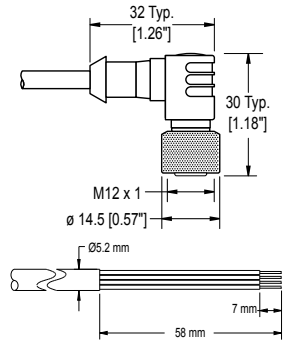
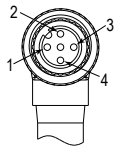
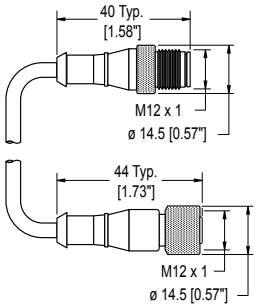
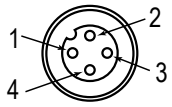
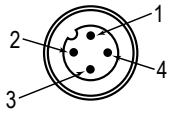
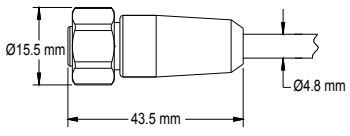
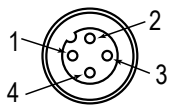
| 4-Pin Single-Ended M12 Female Cordsets | | | | | |
|---|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout (Female)** | |
| **MQDC-406** | 2 m (6.56 ft) | Straight |  |  | 1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Not used |
| **MQDC-415** | 5 m (16.4 ft) | | | | |
| **MQDC-430** | 9 m (29.5 ft) | | | | |
| **MQDC-450** | 15 m (49.2 ft) | | | | |
| **MQDC-406RA** | 2 m (6.56 ft) | Right-Angle |  |  | |
| **MQDC-415RA** | 5 m (16.4 ft) | | | | |
| **MQDC-430RA** | 9 m (29.5 ft) | | | | |
| **MQDC-450RA** | 15 m (49.2 ft) | | | | |

| 4-Pin Double-Ended M12 Female to M12 Male Cordsets | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout** |
| **MQDEC-401SS** | 0.31 m (1 ft) | Male Straight/Female Straight |  | Female<br><br>Male<br><br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black |
| **MQDEC-403SS** | 0.91 m (2.99 ft) | | | |
| **MQDEC-406SS** | 1.83 m (6 ft) | | | |
| **MQDEC-412SS** | 3.66 m (12 ft) | | | |
| **MQDEC-415SS** | 4.58 m (15 ft) | | | |
| **MQDEC-420SS** | 6.10 m (20 ft) | | | |
| **MQDEC-430SS** | 9.14 m (30.2 ft) | | | |
| **MQDEC-450SS** | 15.2 m (49.9 ft) | | | |

| 4-Pin Single-Ended M12 Female Washdown, Stainless Steel Cordsets | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout (Female)** |
| **MQDC-WDSS-0406** | 2 m (6.56 ft) | Straight |  | <br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black |
| **MQDC-WDSS-0415** | 5 m (16.4 ft) | | | |
| **MQDC-WDSS-0430** | 9 m (29.5 ft) | | | |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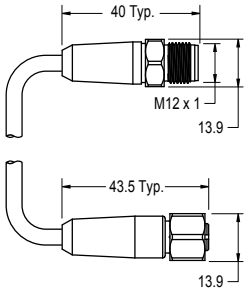
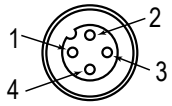
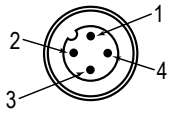
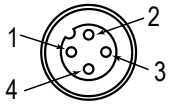
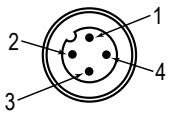
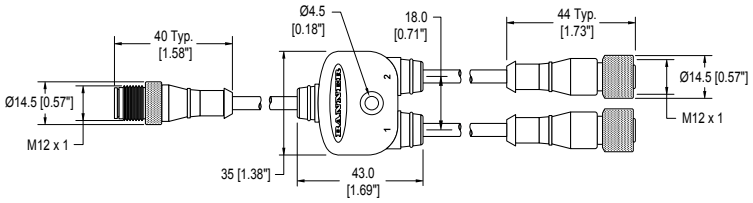
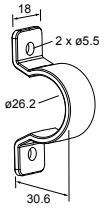
| 4-Pin Double-Ended M12 Female to M12 Male Washdown Stainless Steel Cordsets | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout** |
| **MQDEC-WDSS-401SS** | 0.31 m (1 ft) | Male Straight/Female Straight |  | Female<br><br>Male<br><br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black |
| **MQDEC-WDSS-403SS** | 0.91 m (2.99 ft) | | | |
| **MQDEC-WDSS-406SS** | 1.83 m (6 ft) | | | |
| **MQDEC-WDSS-412SS** | 3.66 m (12 ft) | | | |

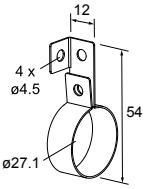
| 4-Pin Flat Junction M12 Female Branch to M12 MaleTrunk Splitter Cordsets | | | |
|---|---|---|---|
| **Model** | **Branches (Female)** | **Trunk (Male)** | **Pinout** |
| **CSB-M1240M1240** | No branch | No trunk | Female<br><br>Male<br><br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black |
| **CSB-M1240M1241** | 2 × 0.3 m (1 ft) | No trunk | |
| **CSB-M1241M1241** | | 0.31 m (1 ft) | |
| **CSB-M1248M1241** | | 2.44 m (8 ft) | |
| **CSB-M12415M1241** | | 4.57 m (15 ft) | |
| **CSB-M12425M1241** | | 7.60 m (25 ft) | |
| **CSB-UNT425M1241** | | 7.60 m (25 ft) Unterminated | |
| **CSB-M1243M1243** | 2 × 1 m (3.28 ft) | 1 m (3.28 ft) | |
|  | | | |

# Brackets

**LMBWLS27EC**
- Clear copolyester
- Clearance for M5 or #10 hardware




**LMBWLS27H**
- 300 series stainless steel mounting brackets
- M4 stainless steel hardware included





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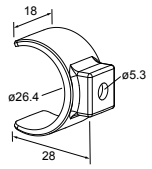
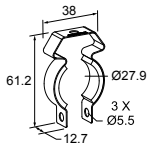
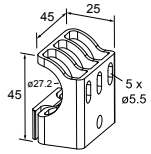
**LMBWLS27SP**
- Clear copolyester
- Clearance for M5 or #10 hardware
- Snap bracket for light-duty applications




**LMBWLS27T**
- Stainless steel mounting brackets with rubber grips
- M5 stainless steel hardware included
- Clearance for M5 or #10 hardware




**LMBWLS27U**
- Clear copolyester
- Clearance for M5 or #10 hardware
- Clamps securely around the light body

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

# Mexican Importer

Banner Engineering de Mèxico, S. de R.L. de C.V. | David Alfaro Siqueiros 103 Piso 2 Valle oriente | San Pedro Garza Garcia Nuevo Leòn, C. P. 66269

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