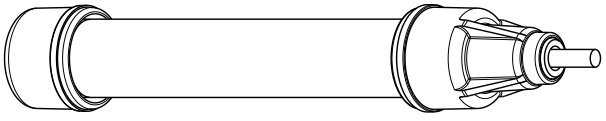
Features

Banner's HLS27 Hazardous Location Segmented LED Strip Light has a sturdy aluminum housing and is encased in a shatterproof, UV-stabilized, polycarbonate shell, making it ideal for harsh indoor and outdoor applications.



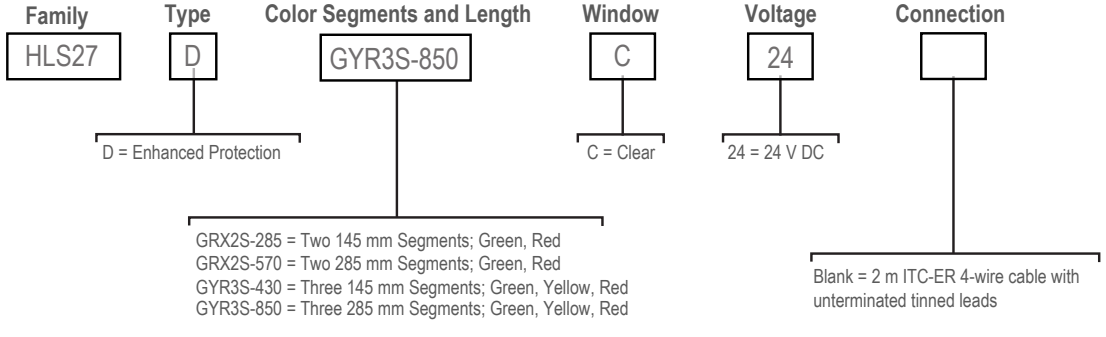
- Ultra-bright, multi-segment indicator
- Models with 2 or 3 segments available in two different segment sizes
- Rugged, water-resistant IP66, IP67 design
- Four available lengths: 285 mm, 430 mm, 570 mm, or 850 mm
- Standard and optional 300 series stainless steel mounting brackets protect against impact
- Certification for cULus and ATEX/UKCA/IECEx, see details in specifications

IMPORTANT: Read the following instructions before operating the light. Please download the complete HLS27 Hazardous Location 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 HLS27 Hazardous Location 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 HLS27 Hazardous Location 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



Type	Protection	Suitable for ATEX / UKCA / IECEx	Suitable for NEC & CEC		
D	Enhanced Protection	Gas Zone: 2 Dust Zone: 22	Gas Zone: 2 Dust Zone: 22	Class I Division 2 Class II Division 2	Class III Division 1 and 2

Original Instructions
19-Aug-25

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215880
p/n: 215880 Rev. B

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

Installation Instructions

Hazardous Location Applications

WARNING:
- **Hazardous Locations**
- It is the user's responsibility to ensure that all local, state, and national laws, rules, codes, or regulations relating to the installation and use of this device in any particular application are satisfied. This device must be installed by Qualified Persons, in accordance with this document and applicable regulations.
- A Qualified Person is a person who, by possession of a recognized degree or certificate of professional training, or who, by extensive knowledge, training and experience, has successfully demonstrated the ability to solve problems relating to the subject matter and work.

WARNING: The hazardous location mounting hardware is designed to help protect the HLS27 light from damage during impact and must be used in all hazardous location applications. Failure to use the Banner supplied mounting hardware correctly will void the hazardous location rating of the light.

WARNING:
- **Electrostatic Discharge (ESD) Specific Conditions for Safe Use**
- Parts of the enclosure are non-conducting and can generate an ignition-capable level of ESD.
- To reduce the risk of ignition due to electrostatic discharge, avoid contact with the equipment while an explosive atmosphere is present.
- Clean the equipment with only a damp cloth.

Specific Conditions for Use and General Notes:
- See Specifications and Wiring Diagrams for important information concerning entity parameters, permissible locations, electrical connections and certifications.
- In addition to the warning above concerning user responsibility, the installation must comply with the following:
  - All installations must comply with all manufacturer's instructions.
    - This device is provided with a PLTC-ER/ITC-ER cable and must be installed in accordance with the following:
      - NEC Article 501.10 (B) for Class I Division 2
      - NEC Article 502.10 (B) for Class II Division 2
      - NEC Article 503.10 (A) or (B) for Class III Division 1 or 2 respectively
      - Canadian Electrical Code (CSA C22.1) for Canadian Installations
      - Section 9 of IEC 60079-14 for ATEX/UKCA/IECEx locations
    - The PLTC-ER/ITC-ER cable shall be installed in accordance with the provisions of NEC Article 725 (PLTC-ER) or 727.4 (ITC-ER) for Class I Division 2, Class II Division 2, and Class III Division 1 and 2 locations.
    - The 7/8 Turck Minifast connector must be used with a mating female 7/8 Minifast connector manufactured by Turck and certified for the appropriate location classification and installed following the requirements of Turck Control Drawing Ni-2.422. Examples of an appropriate mating connector are shown in "Accessories" on page 6 and are available for purchase separately from Banner.
    - All connections in the hazardous location must be secured by a locking device. An example of appropriate locking device is shown in "Accessories" on page 6. One locking device is provided with each model that is fitted with a Turck Minifast connector. Locking devices are also available for purchase separately from Banner.
    - The cable shall be terminated with a fitting certified for the appropriate location classification
    - The device must be powered by a suitable Class 2 power supply (UL) or a SELV power supply (CE)
- Do not attempt any repairs to this device; it contains no field-replaceable parts or components. Tampering and/or replacement with non-factory components may adversely affect the safe use of the system.
- The nonconducting materials of this device may be susceptible to ignition-capable level of electrostatic charging and precautions must be taken to avoid this. The user/installer shall ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which are conducive to creating a build-up of electrostatic charges.
- The user/installer must take suitable precautions to prevent the device from being adversely affected by aggressive substances, such as acidic liquids or gases that may attack metals, or solvents that may affect polymeric (plastic) materials. Suitable precautions include routine inspection or maintenance procedures require replacement of damaged devices or establishing from the materials data sheet that the device is resistant to specific chemicals. These precautions must ensure that the type of protection is not compromised.

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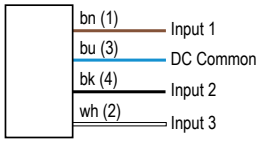
Wiring

Unterminated	Wire Color	Description
	Brown	Input 1
	White	Input 3
	Blue	DC common
	Black	Input 2

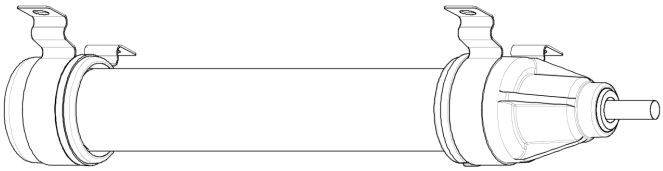
3 Segment Strip Lights			
Input 1: Brown Wire	Input 2: Black Wire	Input 3: White Wire	LED Color
-	-	-	Light OFF
+24 V DC	-	-	Segment 1 ON
-	+24 V DC	-	Segment 2 ON
+24 V DC	+24 V DC	-	Segment 1 and 2 ON
-	-	+24 V DC	Segment 3 ON
+24 V DC	-	+24 V DC	Segment 1 and 3 ON
-	+24 V DC	+24 V DC	Segment 2 and 3 ON
+24 V DC	+24 V DC	+24 V DC	Segment 1, 2, and 3 ON

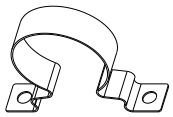
2 Segment Strip Lights		
Input 1: Brown Wire	Input 2: Black Wire	LED Color
-	-	Light OFF
+24 V DC	-	Segment 1 ON
-	+24 V DC	Segment 2 ON
+24 V DC	+24 V DC	Segment 1 and 2 ON

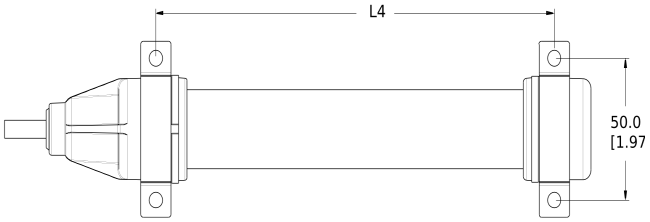
Mounting Instructions

Multiple mounting options are available for the HLS27 in hazardous locations. In the two options listed below, the mounting brackets must be spaced a distance of (L4) apart to ensure the device meets impact protection standards for hazardous locations.

Included Mounting Hardware (LMBHLS27S – 2 Brackets). When using the standard mounting hardware, the mounting hole centers for each individual bracket must be spaced 50.0 mm (1.97 inches) from one another. This spacing is critical for the bracket to provide the required impact protection and prevent rotation of the light within the bracket. The stainless-steel bracket is designed to be used with M5 or #10 stainless-steel hardware.







Models	L4
HLS27..285..	309 mm (12.2 in)
HLS27..430..	450 mm (17.7 in)
HLS27..570..	591 mm (23.3 in)
HLS27..850..	873 mm (34.4 in)

Optional Mounting Hardware (LMBHLS27O – 2 Brackets and Hardware) Purchased Separately. When using the optional mounting hardware, the head of the fastener used must not exceed 5.0 mm (0.2 inches) in height. Fasteners exceeding this height could damage the light housing during impact situations. When using the optional mounting hardware, the supplied spacer must be used with the bolt to maintain the correct bracket shape. This shape is critical for the bracket to provide the required impact protection. The stainless-steel bracket is designed to be used with M5 or #10 stainless-steel hardware.

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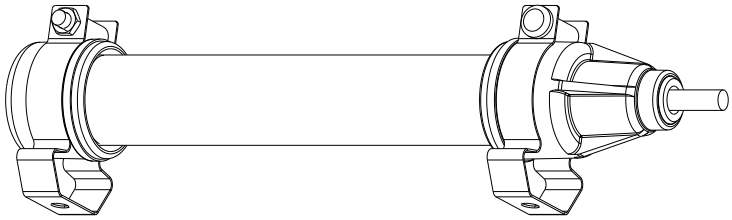
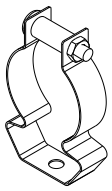
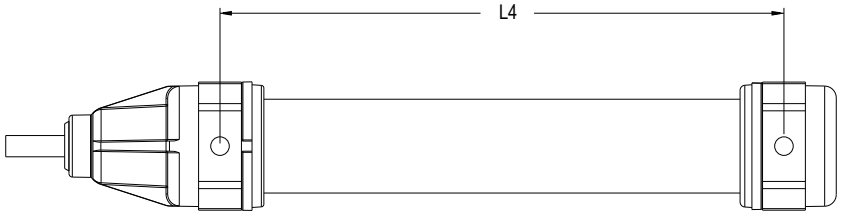






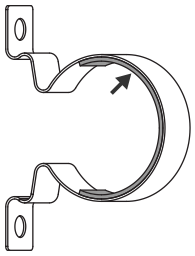
Models	L4
HLS27..285..	309 mm (12.2 in)
HLS27..430..	450 mm (17.7 in)
HLS27..570..	591 mm (23.3 in)
HLS27..850..	873 mm (34.4 in)

Light Anti-Rotation Pads

In applications where vibration is a concern or when light orientation is critical, use anti-rotation pads to prevent the light from rotating within the mounting brackets. Light rotation caused by vibration may be more pronounced with longer-length lights.

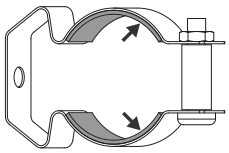
Attach the anti-rotation pads to the brackets, as shown in the figures, with the adhesive side applied to the bracket.

Included Mounting Hardware with Anti-Rotation Pads



NOTE: When using the optional mounting hardware, cut the anti-rotation pad and apply it to both sides of the mounting bracket as shown.

Optional Mounting Hardware with Anti-Rotation Pads



Specifications

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	Typical Current (A) at 25 °C for all Segments	Maximum Current (A)
285 mm	2	0.155	0.360	0.4
430 mm	3	0.155	0.540	0.6
570 mm	2	0.315	0.630	0.8
850 mm	3	0.315	0.945	1.2

Typical current 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.

Environmental Rating

IP66, IP67

Connections

2 m (6.3 ft) long, 5.3 mm (0.21 inch) diameter UL type PLTC-ER or ITC-ER cable with unterminated leads; PVC jacket, paper separator

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 Conditions

–35 °C to +50 °C (–31 °F to +122 °F)

90% maximum relative humidity (non-condensing)

Storage Temperature: –35 °C to +70 °C (–31 °F to +158 °F)

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

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Construction

Clear anodized aluminum housing

UV stabilized polycarbonate outer housing

Mounting

Bracket kit LMBHLS27S included (2 brackets for use with HLS27 Hazardous Location LED Strip Light)

Optional bracket kit LMBHLS27O (2 brackets and hardware for use with HLS27 Hazardous Location LED Strip Light)

Light Characteristics

Color	Dominant Wavelength (nm) or Color Temperature	Lighted Length Lumens (Typical at 25 °C)	
		285 and 430 mm	570 and 850 mm
Green	525 nm	160	425
Yellow	580 nm	225	605
Red	625 nm	75	195

Lighted length lumen 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.

Approvals

NEC and CEC:

–35°C ≤ T_a ≤ +50°C
Class I Zone 2 IIC T4 / Class I Div 2 Groups ABCD T4
Class II Zone 22 IIIC T100°C / Class II Div 2 Groups FG T5
Class III Div 1 and Div 2 T5

c UL us LISTED
LUMINAIRE FOR HAZARDOUS LOCATIONS
E467619

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ATEX/UKCA/IECEX:

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

–35°C ≤ T_a ≤ +50°C

Ex II 3 G Ex ec IIC T4 Gc (Group IIC Zone 2)

Ex II 3 D Ex tc IIIC T85°C Dc (Group IIIC Zone 22)

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

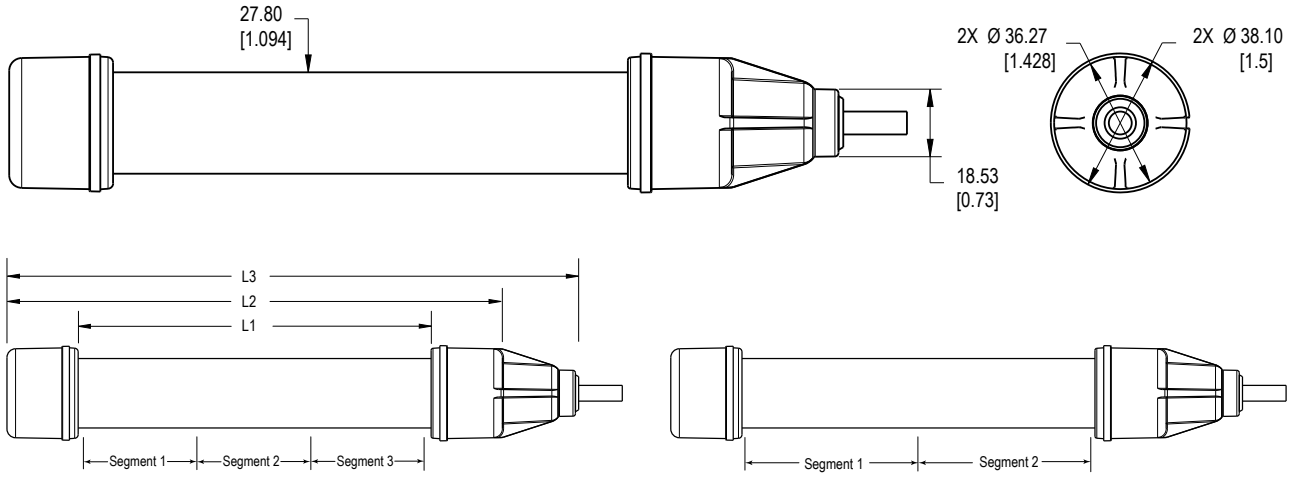
UKCA
Turck Banner LTD Blenheim House
Blenheim Court
Wickford, Essex SS11 8YT
GREAT BRITAIN

DEMKO 18 ATEX 2122X
IECEx UL 18.0115X

IEC 60079-0:2017
IEC 60079-7:2017
IEC 60079-31:2013

Dimensions

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



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Models	L1	L2	L3	Segment 1	Segment 2	Segment 3
HLS27..285..	282 mm (11.1 in)	339 mm (13.4 in)	370 mm (14.6 in)	143 mm (5.7 in)	143 mm (5.7 in)	-
HLS27..430..	423 mm (16.7 in)	480 mm (18.9 in)	511 mm (20.1 in)	143 mm (5.7 in)	143 mm (5.7 in)	143 mm (5.7 in)
HLS27..570..	564 mm (22.2 in)	621 mm (24.5 in)	652 mm (25.7 in)	286 mm (11.3 in)	286 mm (11.3 in)	-
HLS27..850..	846 mm (33.3 in)	903 mm (35.6 in)	934 mm (36.8 in)	286 mm (11.3 in)	286 mm (11.3 in)	286 mm (11.3 in)

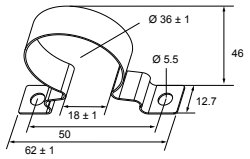
Accessories

Brackets

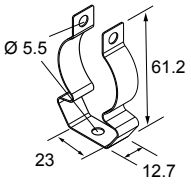
All measurements are listed in millimeters, unless noted otherwise. The measurements provided are subject to change.

The following brackets (LMBHLS27S, LMBHLS27O) can be used with the HLS27 Hazardous Location Segmented LED Strip Light.

LMBHLS27S
- Set of 2 brackets
- Impact absorbing
- 300 series stainless steel
- Clearance for M5 or #10 hardware

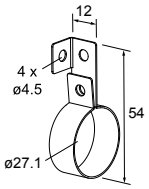


LMBHLS27O
- Set of 2 brackets
- Impact absorbing clamp
- 300 series stainless steel
- M5 stainless steel hardware included

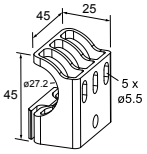


The following brackets (LMBWLS27H, LMBWLS27U) can be used with the HLS27 Hazardous Location Segmented LED Strip Light for North America applications, but will not meet the required specifications for ATEX/UKCA/IECEx.

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



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.

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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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