

Datasheet

This guide is designed to help you set up and install the WLB32 Industrial PoE LED Light. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual at www.bannerengineering.com. Search for part number 217743 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 WLB32 Industrial PoE LED 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.

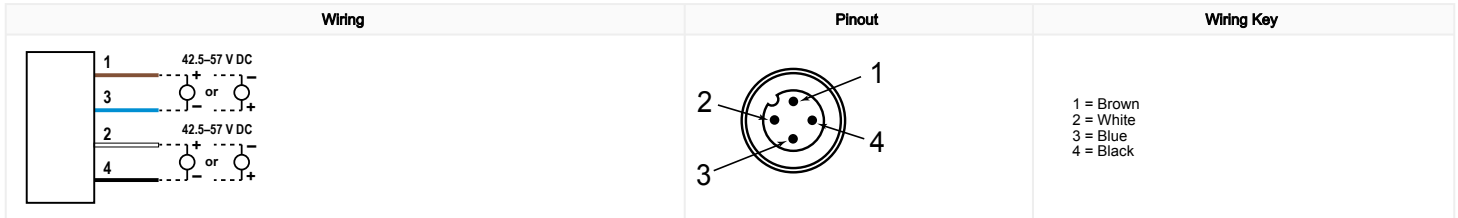
IMPORTANT: Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los WLB32 Industrial PoE LED Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

IMPORTANT: Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des WLB32 Industrial PoE LED 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

Models	Lighted Length (mm)	Window	Connector	Lumens
WLB32EX285PQ	285	Standard	Integral 4-pin M12 quick-disconnect connector	750
WLB32EX570PQ	570			1500
WLB32EX850PQ	850			2250
WLB32EX1130PQ	1130			3000
WLB32EX285EPQ	285	Eye Shield		750
WLB32EX570EPQ	570			1500
WLB32EX850EPQ	850			2250
WLB32EX1130EPQ	1130			3000

Wiring



Specifications

Supply Voltage

42.5 V DC to 57 V DC

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Light Characteristics

Color: Daylight white

Color temperature (CCT): 5000K (±300K)

Lumen output: 750 (±5%) per foot, typical at 25 °C (77 °F)

Luminous efficacy: 120 lumens/Watt typical at 50 V DC at 25 °C (77 °F)

CRI: 80, minimum

Spacing Criterion

Vertical: 1.22

Horizontal: 1.32

Mounting

Snap clips; optional magnetic mount or swivel bracket accessories available

Connections

Integral 4-pin M12 quick disconnect (4-pin connecting cordset required)

Environmental Rating

IP40

LED Lifetime

Lumen Maintenance - L₇₀

When operating within specifications, output will decrease less than 30% after 70,000 hours.

Construction

Anodized aluminum housing; polycarbonate window and end caps; stainless steel mounting brackets

Dimming Knob

10 levels of intensity adjustment

Off position

Vibration and Mechanical Shock

Vibration 10-55 Hz 1.0 mm p-p amplitude per IEC60068-2-6

Shock 15G 11 ms duration, half sine wave per IEC60068-2-27

Operating Temperature

-40 °C to +50 °C (-40 °F to +122 °F)

Storage Temperature

-40 °C to +70 °C (-40 °F to +158 °F)

Test Data

LM-79, LM-80, TM-21

Supply Current

Lighted Length (mm)	Typical Current (A)			Max Current (A)	Max Wattage (W)	Power over Ethernet Specification
	42.5 V DC	50 V DC	57 V DC			
285	0.155	0.14	0.13	0.17	7.25	PoE (Class 0 - 802.3af, 802.3at Type 1)
570	0.29	0.245	0.23	0.305	12.95	
850	0.445	0.375	0.34	0.455	19.45	PoE+ (Class 4 - 802.3at Type 2)
1130	0.58	0.485	0.44	0.59	25	

Application Note

WLB32 PoE models can be powered directly from a 42.5 to 57 V DC power source without using an Ethernet switch

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	1.0	30	0.5

Certifications

Banner Engineering BV
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1831 Diegem, BELGIUM

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

**FCC Part 15 Class 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 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.

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.

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

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Original Instructions

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