

WLB72 Industrial LED Light Bar (AC Quick Disconnect) Datasheet



Features

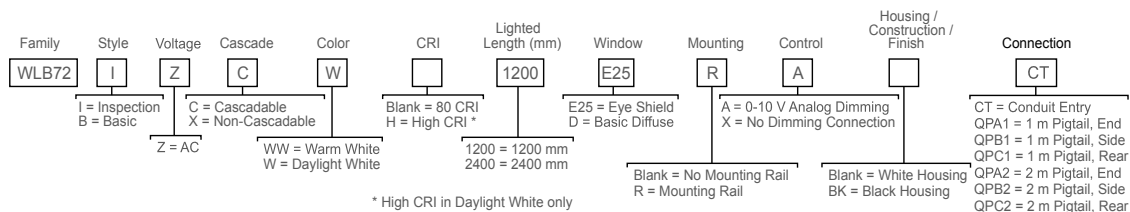
This guide is designed to help you set up and install the WLB72 Industrial LED Light Bar. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual at www.bannerengineering.com. Search for part number 233591 to view the 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 WLB72 Industrial LED Light Bar 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 WLB72 Industrial LED Light Bar, 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 WLB72 Industrial LED Light Bar 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



Wiring Diagram

Diagram	Wire	Connection	Pinout (Male)	Pinout (Female)
	L - Black	Line/Hot		
	N - White	Neutral		
	- Green/Yellow	Earth ground		
	Dim (+) - Purple	0-10 V DC analog dimming		
	Dim (-) - Gray	Return analog dimming		

3-pin 7/8 in-16UNF Pinout Description		4-pin M12 Pinout Description	
1	Ground	1	Not connected
2	Neutral	2	Not connected
3	Line/Hot	3	Dim (-)
—	—	4	Dim (+)

Specifications

Supply Voltage

Nominal voltage: 120 V AC to 277 V AC, 60 Hz in North America
 Nominal voltage: 120 V AC to 277 V AC, 50/60 Hz outside North America
 Power factor: > 0.95 at 120 V AC and > 0.90 at 277 V AC
 Total harmonic distortion (THD): < 20%
 See electrical characteristics on product label

Supply Protection Circuitry

Protected against transient voltages

LED Lifetime

When operating within specifications, output will decrease less than 30% after 50,000 hours.

Connections

PVC cable with a 3-pin 7/8 in-16UNF quick disconnect for power
 PVC cable with a 4-pin M12 quick disconnect for dimming

Weight

1200 model: 2.8 kg (6.2 lbs)
 2400 model: 5.6 kg (12.3 lbs)

Environmental Rating

IP20

Dimming

Compatible with 0-10 V analog LED dimming, dimmable to 5% intensity



Construction

Galvanized steel with corrosion resistant polyester powder coat, polycarbonate window and end caps

Mounting

Pre-installed mounting rail bracket option. Housing includes six mounting holes for surface mounting. Several optional mounting brackets are available

Operating Temperature

Surface Mount Installation: -20 °C to +45 °C (-4 °F to +113 °F)

85% at +50 °C maximum relative humidity (non-condensing)

Storage Temperature

-40 °C to +70 °C (-40 °F to +158 °F)

Vibration and Mechanical Shock

Vibration: 10 Hz to 55 Hz, 0.5 mm peak-to-peak amplitude per IEC 60068-2-6 (5 minute sweep, 30 minute dwell)

Shock: 5G 11 ms duration, half sine wave per IEC 60068-2-27

Impact: IK07 (IEC 60068-2-75)

Supply Current

Lighted Length (mm)	Max. Current Draw (A) at 90 V AC	Typical Current Draw (A)		
		120 V AC	230 V AC	277 V AC
1200	0.850	0.43	0.22	0.18
2400	1.700	0.86	0.44	0.36

Application Notes

When connecting continuous run/cascadable lights in series, it is important not to exceed maximum current limitations of 14 AWG, 75 °C wire, in accordance with the National Electrical Code (NEC) and any applicable local code requirements.

Two or more lights installed in parallel must maintain a 150 mm (6 in) spacing to maintain a 50 °C operation temperature.

Operating Voltage	Maximum Unit Limit		
	1200 mm	2400 mm	Total Length of combined Lights
120	34	17	136
230	68	34	272
277	83	41	332

For example, if you use (34) 1200 mm lights at 120V, you cannot add any 2400 mm lights within the same continuous run.

Certifications and Approvals



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



Banner Engineering Corp Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. **IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.**

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp. Any misuse, abuse, or improper application or installation of this product or use of the product for personal protection applications when the product is identified as not intended for such purposes will void the product warranty. Any modifications to this product without prior express approval by Banner Engineering Corp will void the product warranties. All specifications published in this document are subject to change; Banner reserves the right to modify product specifications or update documentation at any time. Specifications and product information in English supersede that which is provided in any other language. For the most recent version of any documentation, refer to: www.bannerengineering.com.

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

Mexican Importer

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

81 8363.2714

Document title: WLB72 Industrial LED Light Bar (AC Quick Disconnect) Datasheet

Part number: 233590

Revision: A

Original Instructions

© Banner Engineering Corp. All rights reserved.



233590