LED..B..W Series Backlights

Features

Visible red or infrared backlights in 2 sizes, with 3-conductor cable



- Diffused backlight for PresencePLUS® Pro sensors
- Continuous light and strobed operation, selectable via sensor software
- Solid-state LED matrix, in two sizes
- Direct connection to PresencePLUS Pro or to an external power supply using 3 discrete wires
- Two sizes available; see models table
- Bracket option(s) available for all models

IMPORTANT: Read the following instructions before operating the light. Please download the complete LED..B..W Backlight 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 LED..B..W Backlight, 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 LED..B..W Backlight 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

Model	LED Color	Wavelength	Active Area	Connection
LEDIB70X70W	Infrared	940 nm	71 mm × 71 mm (2.8 in × 2.8 in)	2 m (6.5 ft) integral cable
LEDRB70X70W	Visible Red	660 nm		
LEDRB85X220W	Visible Red	660 nm	85 mm × 220 mm (3.35 in × 8.67 in)	

For a list of discontinued models, see Discontinued Models.

Specifications

Light Source
LED; see models table for wavelengths

Illumination
Diffused for use in applications needing a backlit light source

Supply Voltage and Current
70×70 mm models: 24 V DC at 250 mA maximum
85×220 mm models: 24 V DC at 500 mA maximum
See the electrical characteristics on the product label.

Connections
2 m (6.5 ft) or 9 m (30 ft) PUR-jacketed, 3-conductor attached cable

Construction
Low-carbon steel with black zinc plating, acrylic window

Useful Life
10,000 hours (LED ON time). When operated within specifications, output will decrease less than 30% after 10,000 hours and less than 40% after 20,000 hours

Operating Conditions
0 °C to +50 °C (+32 °F to +122 °F)
90% at +50 °C maximum relative humidity (non-condensing)

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

Wiring

Backlight Wire	PresencePLUS Pro Controller Terminal Block	External Power Supply (Strobed)		External Power Supply (Continuous)
Brown	Pin 1 (+V [1])	+V		+V
Blue	Pin 2 (–V [2])	–V		–V
Black	Pin 4 (strobe)	+5 V DC –V	OFF ON	–V

[1] +V = 24V DC ± 10%
[2] –V = DC common

Original Instructions
15-Jun-26

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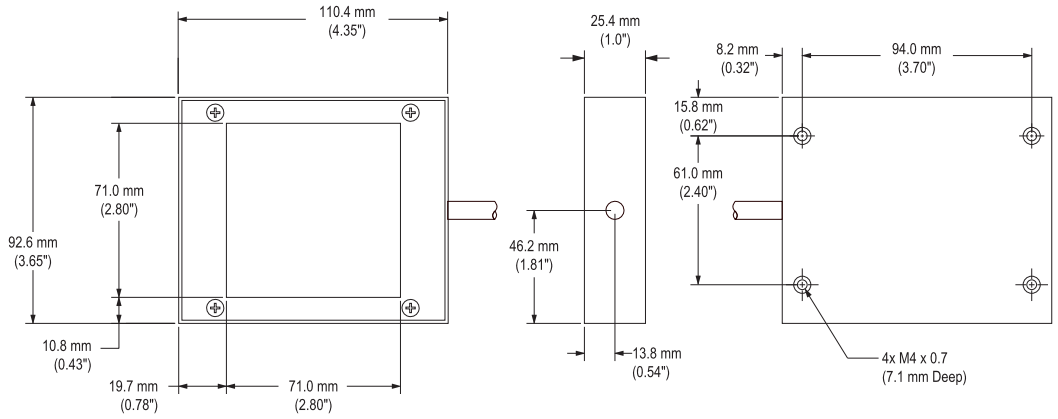
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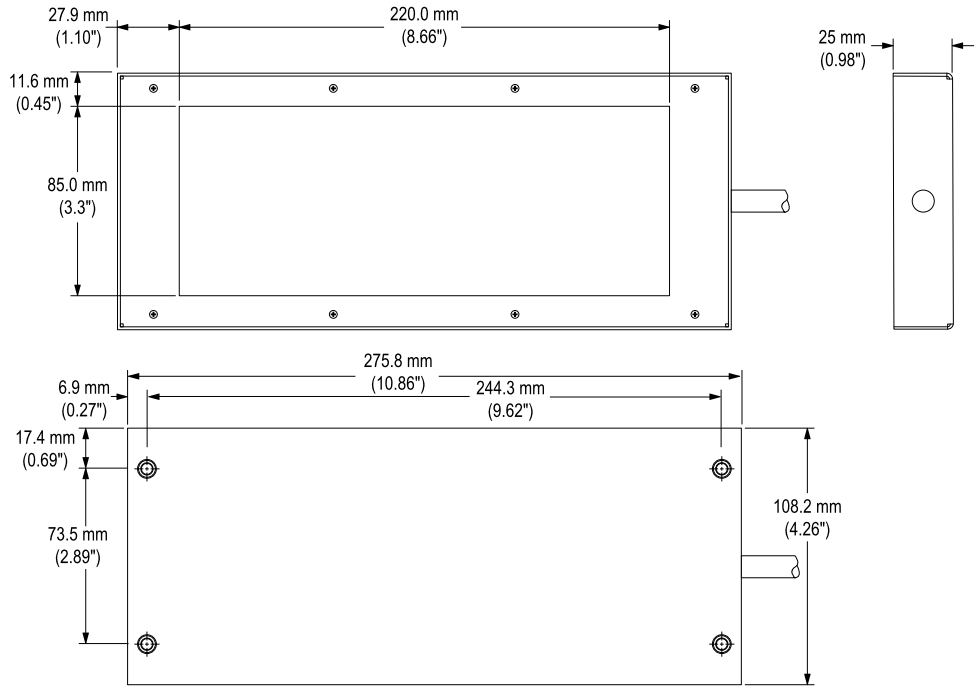
Dimensions

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

Backlight, 70x70 mm model



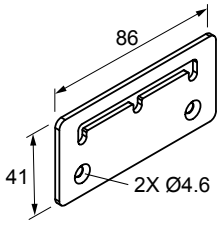
Backlight, 85x220 mm model



Brackets

SMBABM

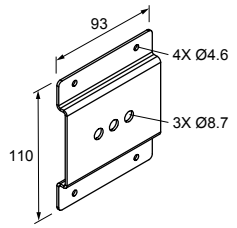
- 13-ga. zinc-plated low-carbon steel
- (4) M4 Phillips flathead screws included
- For mounting the light from the front
- Accommodates backlight models LED..B70X70..
- CAD Files: DXF, PDF, IGS, STP



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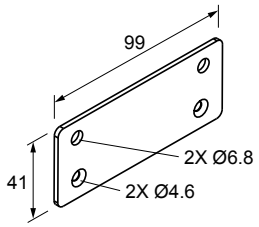
SMBACM

- 14-ga. zinc-plated low-carbon steel
- (4) M4 socket-head cap screws, washers and hex key included
- For mounting the light from the rear
- Accommodates backlight models LED..B70X70..
- CAD Files: DXF, PDF, IGS, STP



SMBLB

- Accommodates backlight models LED..B85X220..
- CAD Files: DXF, PDF, IGS, STP



Product Support and Maintenance

Discontinued Models

The following models are no longer available for order but are still covered by the information in this document.

Model	LED Color	Wavelength	Active Area	Connection
LEDIB70X70W W/30	Infrared	940 nm	71 mm × 71 mm (2.8 in × 2.8 in)	9 m (30 ft) integral cable
LEDRB70X70W W/30	Visible Red	660 nm		
LEDIB85X220W	Infrared	940 nm	85 mm × 220 mm (3.35 in × 8.67 in)	2 m (6.5 ft) integral cable
LEDIB85X220W W/30				9 m (30 ft) integral cable
LEDRB85X220W W/30	Visible Red	660 nm		

Clean the Light

Regularly remove dust, dirt, or fingerprints from the light source.

1. Blow off dust using anti-static compressed air.
2. If necessary, use a lens cloth and lens cleaner or window cleaner to wipe off remaining debris.

IMPORTANT: Do not use any other chemicals for cleaning the light source.

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

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