

## LED..B..W Series Backlights

Visible Red or Infrared Backlights in 2 sizes, with 3-Conductor Cable



### Features

- Diffused backlights for PresencePLUS<sup>®</sup> Pro sensor. See Banner's web site ([www.bannerengineering.com](http://www.bannerengineering.com)) for a complete lighting tutorial.
- Continuous or strobed operation is selectable via sensor software.
- Solid-state LED matrix, in two sizes
- Direct connection to PresencePLUS Pro sensor or to an external power supply using 3 discrete wires.
- Two sizes available (see models below)
- Bracket option(s) available for all models

### Models

Models*	LED Color	Wave Length	Active Area
<b>LEDIB70X70W</b>	Infrared	940 nm	71 x 71 mm (2.8" x 2.8")
<b>LEDRB70X70W</b>	Visible Red	660 nm	
<b>LEDIB85X220W</b>	Infrared	940 nm	85 x 220 mm (3.35" x 8.67")
<b>LEDRB85X220W</b>	Visible Red	660 nm	

\*For 9 m (30') integral cable, add suffix "**W/30**" to the model number (e.g., **LEDIB70X70W W/30**).

### Specifications

<b>Light Source</b>	LED; see Models table above for wave lengths
<b>Illumination</b>	Diffused for use in applications needing a backlit light source.
<b>Supply Voltage and Current</b>	<b>70x70 mm models:</b> 24V dc @ 250 mA max. <b>85x220 mm models:</b> 24V dc @ 500 mA max.
<b>Connections</b>	2 m (6.5') or 9 m (30') PUR-jacketed, 3-conductor attached cable
<b>Construction</b>	Low-carbon steel with black zinc plating, acrylic window
<b>Useful Life</b>	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.
<b>Operating Conditions</b>	<b>Temperature:</b> 0° to +50°C (+32° to 122°F) <b>Relative humidity:</b> 90% at 50°C (non-condensing) max.
<b>Cleaning Instructions</b>	Regularly remove any 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. Do not use any other chemicals for cleaning.

### Wiring Table

Backlight Wire	PresencePLUS Pro Controller Terminal Block	External Power Supply (Strobed)	External Power Supply (Continuous)
<b>Brown</b>	Pin 1 (+V*)	+V	+V
<b>Blue</b>	Pin 2 (-V*)	-V	-V
<b>Black</b>	Pin 4 (strobe)	+5V dc   OFF -V        ON	-V

\* +V = 24V dc  $\pm$  10%

-V = dc common

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## Dimensions

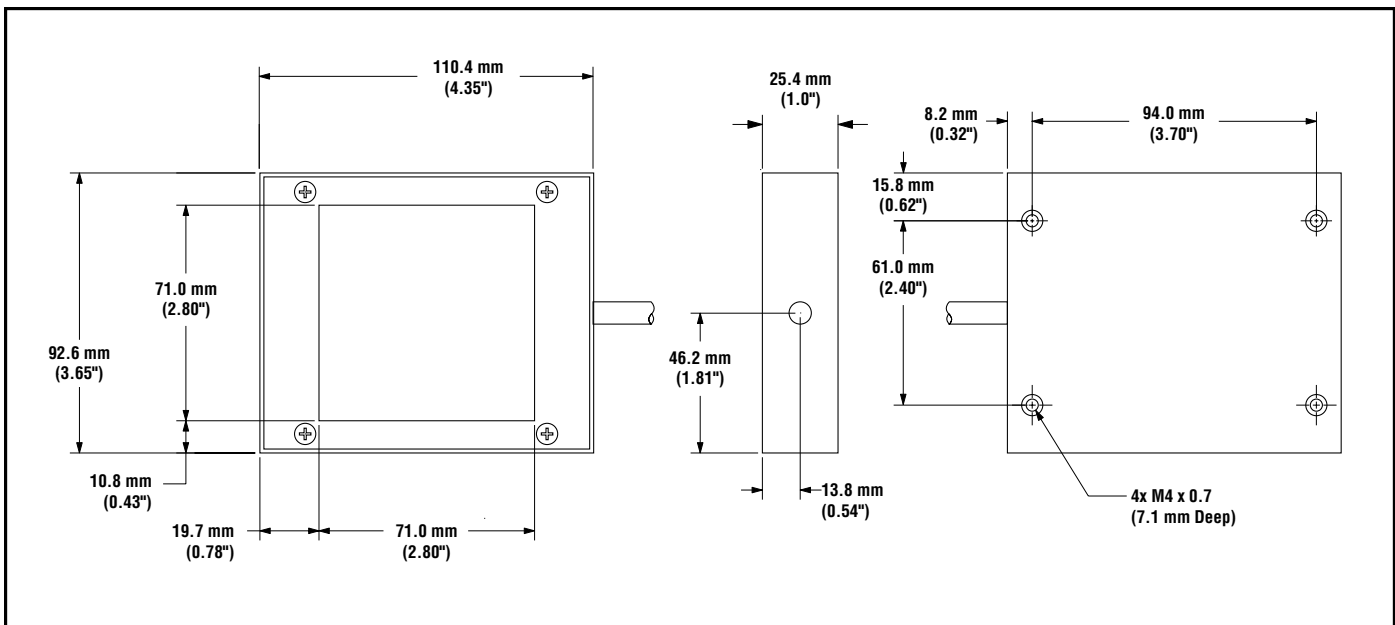


Figure 1. 70x70 mm model backlight dimensions

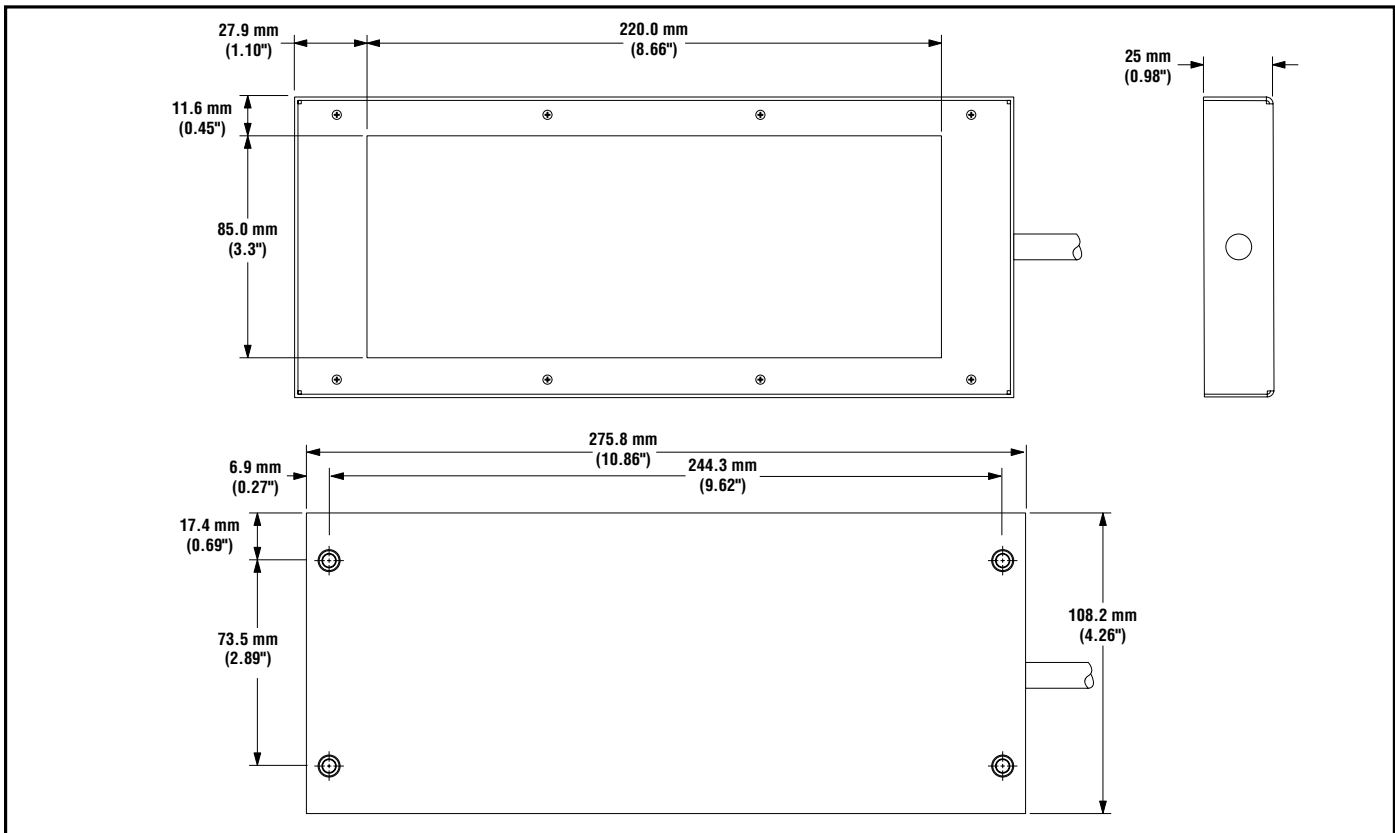


Figure 2. 85x220 mm model backlight dimensions

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## Accessory Mounting Brackets

<div>SMBABM</div>	<div><ul style="list-style-type: none"><li>• 13-ga. zinc-plated low-carbon steel</li><li>• (4) M4 Phillips flathead screws included</li><li>• For mounting light from front</li><li>• Accommodates backlight models LED..B70X70..</li></ul></div>
<div></div>	
<div>SMBACM</div>	<div><ul style="list-style-type: none"><li>• 14-ga. zinc-plated low-carbon steel</li><li>• (4) M4 socket-head cap screws, washers and hex key included</li><li>• For mounting light from rear</li><li>• Accommodates backlight models LED..B70X70..</li></ul></div>
<div></div>	
<div>SMBLB</div>	<div><ul style="list-style-type: none"><li>• Accommodates backlight models LED..B85X220..</li></ul></div>
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