LED..B..W Series Backlights

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

Features

- Diffused backlights for PresencePLUS® Pro sensor. See Banner's web site (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
LEDIB70X70W	Infrared	940 nm	71 x 71 mm (2.8" x 2.8")
LEDRB70X70W	Visible Red	660 nm	
LEDIB85X220W	Infrared	940 nm	85 x 220 mm (3.35" x 8.67")
LEDRB85X220W	Visible Red	660 nm	

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

Specifications

Light Source	LED; see Models table above for wave lengths
Illumination	Diffused for use in applications needing a backlit light source.
Supply Voltage and Current	**70x70 mm models:** 24V dc @ 250 mA max. **85x220 mm models:** 24V dc @ 500 mA max.
Connections	2 m (6.5') or 9 m (30') 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	**Temperature**: 0° to +50°C (+32° to 122°F) **Relative humidity**: 90% at 50°C (non-condensing) max.
Cleaning Instructions	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)
Brown	Pin 1 (+V*)	+V	+V
Blue	Pin 2 (-V*)	-V	-V
Black	Pin 4 (strobe)	+5V dc OFF -V ON	-V

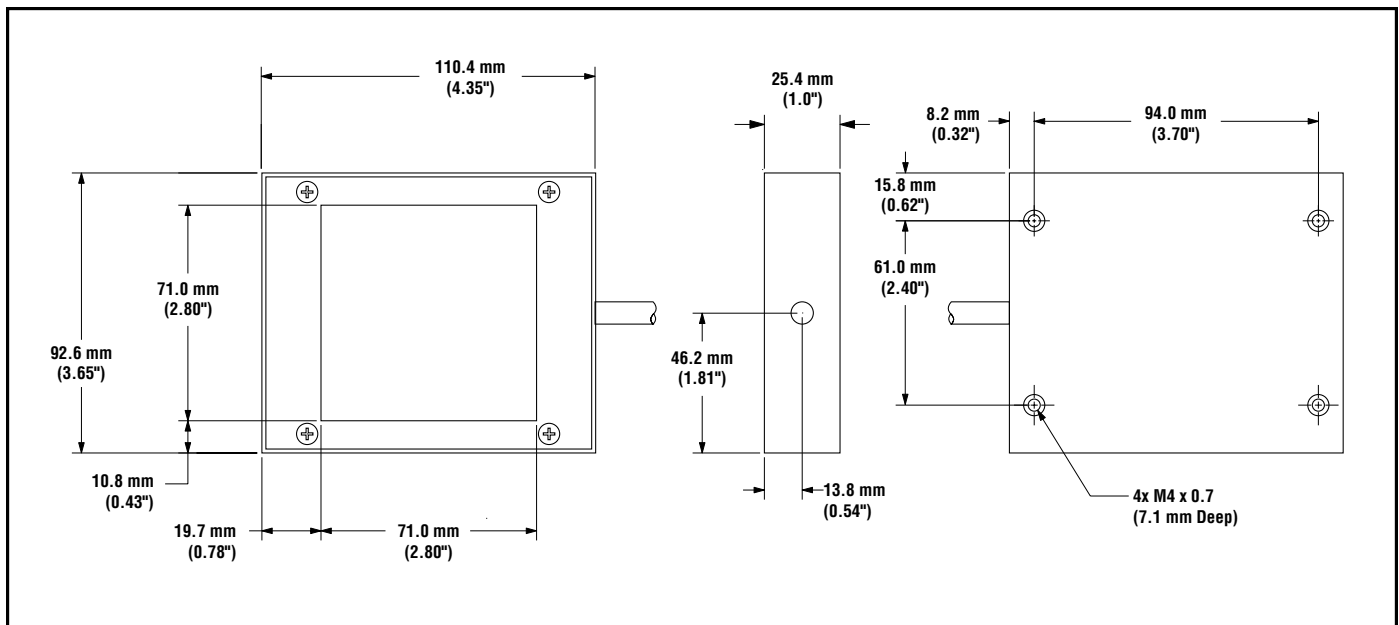* +V = 24V dc ± 10%   -V = dc common

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Dimensions

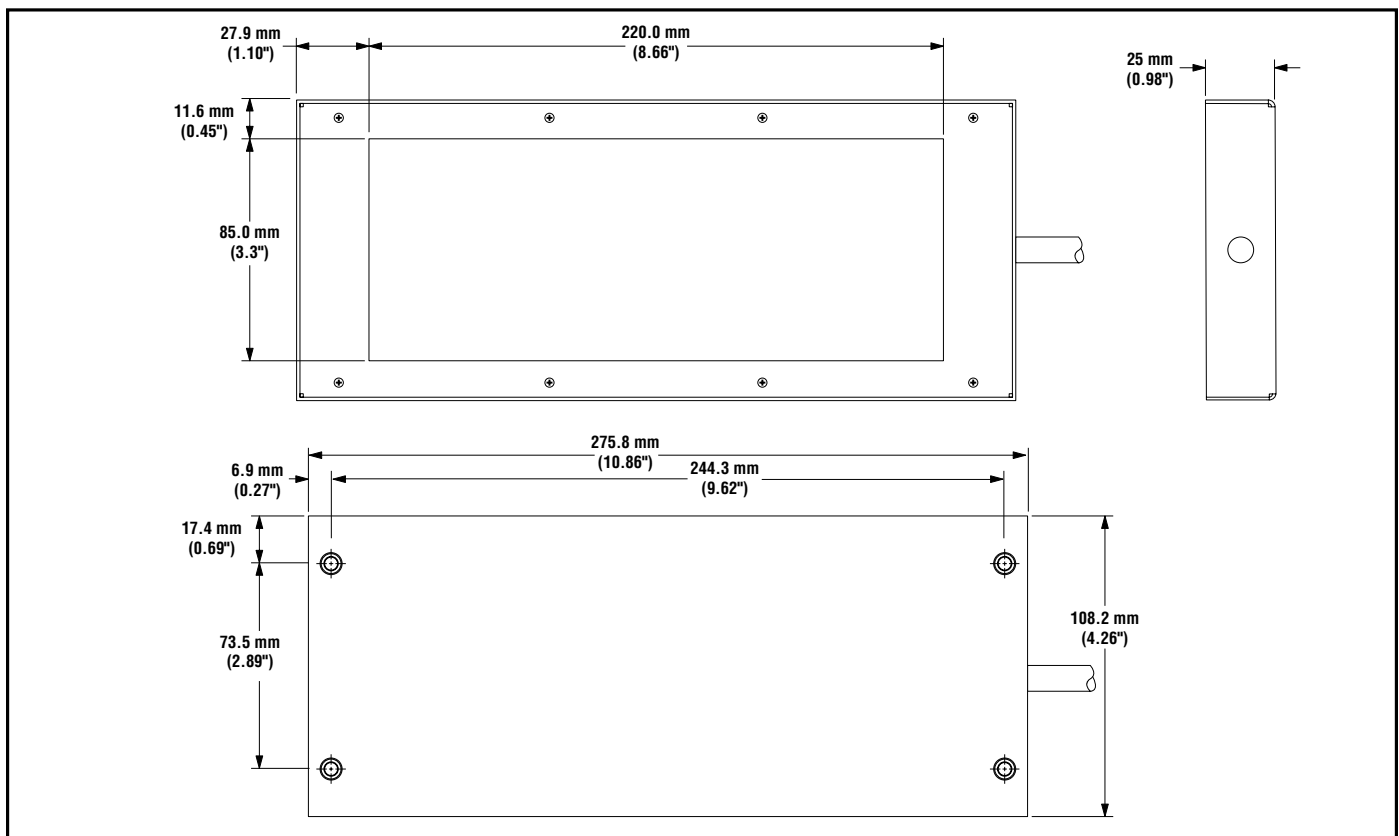**Figure 1. 70x70 mm model backlight dimensions**

Figure 2. 85x220 mm model backlight dimensions

Accessory Mounting Brackets

| **SMBABM** | • 13-ga. zinc-plated low-carbon steel
• (4) M4 Phillips flathead screws included
• For mounting light from front
• Accommodates backlight models LED..B70X70.. | **SMBACM** | • 14-ga. zinc-plated low-carbon steel
• (4) M4 socket-head cap screws, washers and hex key included
• For mounting light from rear
• Accommodates backlight models LED..B70X70.. |

| **SMBLB** | • Accommodates backlight models LED..B85X220.. |

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