LED..B..W Series Backlights



Datasheet

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



- Diffused backlight for PresencePLUS® Pro sensors. See Banner's website at www.bannerengineering.com for a complete lighting tutorial.
- · 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.

Models

Model	LED Color	Wave Length	Active Area
LEDI B70X70W	Infrared	940 nm	71 x 71 mm - (2.8" x 2.8")
LEDRB70X70W	Visible Red	660 nm	
LEDI B85X220W	Infrared	940 nm	85 x 220 mm - (3.35" x 8.67")
LEDRB85X220W	Visible Red	660 nm	

To order the 9 m (30 ft) integral cable model, add the suffix "W/30" to the model number (for example, LEDI B70X70W W/30).

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 X 70 mm models: 24 V dc at 250 mA max.

85 x 220 mm models: 24 V dc at 500 mA max.

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 (non-condensing) max. relative humidity

Cleaning Instructions

- Regularly remove any dust, dirt, or fingerprints from the light source.
- Blow off dust using anti-static compressed air.
- 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.



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Wiring Table					
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	

Dimensions

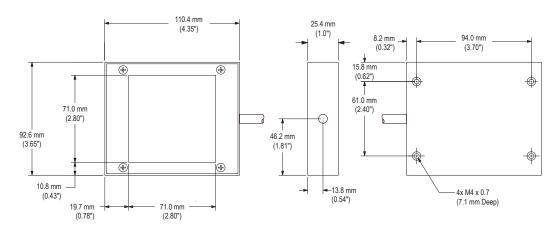


Figure 1. Backlight, 70x70 mm model

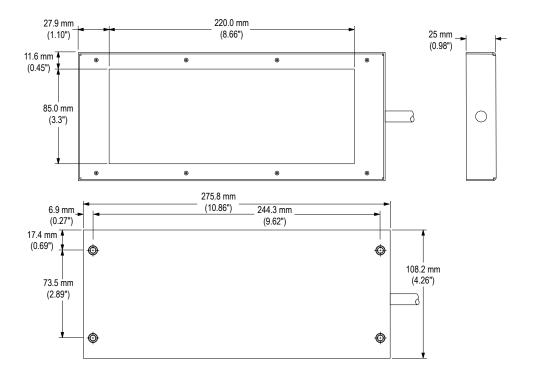
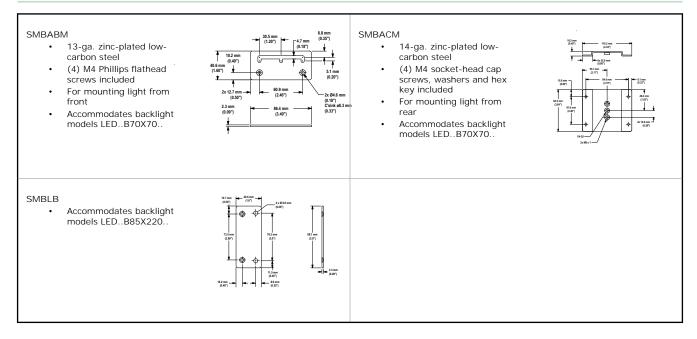


Figure 2. Backlight, 85x220 mm model

 $[\]frac{1}{2}$ +V = 24V dc ± 10%

^{2 -}V = dc common

Accessory Mounting Brackets



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