High-Power Unsealed Linear Backlights



Datasheet

Lighting for use with Vision Systems



- Four high-intensity, visible wavelengths, plus IR
- The following array lengths are available:
 - 145 mm (5.7 in)
 - 290 mm (11.4 in) 435 mm (17.7 in)
 - 580 mm (22.8 in)
 - 870 mm (34.2 in)
 - 1160 mm (45.6 in)
- High-power, solid-state LED array; continuous or strobed operation is selectable via sensor software (P4 models) or via hookup
- Optically isolated strobe signal
- Selectable Active High or Active Low strobe option
- Maintenance-free, rugged construction
- Built-in constant current regulation
- Very even light pattern
- Can also be used as a highly diffused area light
- Diffused backlight for any Vision System



Important: Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los High-Power Unsealed Linear Backlights, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

Model Key

Light Source	LED Color	Linear Array	Array Length	Housing	Window Material	Relative Intensity	Intensity Control	Connector
LED	R	LB	145	х	W	6-	Х	Q
	$ \begin{array}{l} R = Red \\ W = White \\ B = Blue \\ G = Green \\ I = IR \end{array} $		145 mm (5.7 in) 290 mm (11.4 in) 435 mm (17.7 in) 580 mm (22.8 in) 870 mm (34.2 in) 1160 mm (45.6 in)	X = IP50	W = White Plastic		X = Not Adjustable	Q = QD

Wiring

Wire Purpose	Cable Wire Color ¹	Wire Connections	PresencePLUS® Pro Controller Terminal Block
Power Wires	Brown (1)	+24 V DC	Pin 01 ²
	Blue (3)	common	Pin 02
Strobe Polarity Control	Gray (5)	Active Low: open	Pip 02 or open
		Active High: connect to common (Blue wire)	Pin 02 or open
Strobe Voltage Wires	White (2)	Active Low: 0 V DC = ON +5 V DC to 24 V DC =	= OFF Pin 04
		Active High: 0 V DC = OFF +5 V DC to 24 V DC =	= ON
	Black (4)	Strobe common	Pin 02
		(1) +24V dc (2) Strob (4) Strobe Common (5)Active High/A	mon
		Figure 1. Pinouts for Mating Cable	e



Note: Connection to earth ground recommended.

For Banner-supplied wire. When connecting the light to a *Presence*PLUS[®] Pro controller terminal block, the controller supply must be 24 V DC ± 10%.

Connections Integral 5-pin M12/Euro-style male quick disconnect, accessory cordset required

When operated within specifications, output will decrease less than 30% after 50,000

Specifications

Light Source

LED Color	Wavelength	Optional Filter ³
Infrared	850 nm	FLTI
Red	620 nm to 630 nm	FTLR
Blue	465 nm to 485 nm	FLTB
Green	520 nm to 535 nm	FLTG
White	5000 K to 8300 K	FLTB or FLTG

Supply Voltage and Current 145 mm Models: 24 V DC ± 10% at 500 mA max. 290 mm Models: 24 V DC ± 10% at 1 A max. 435 mm Models: 24 V DC ± 10% at 2 A max. 580 mm Models: 24 V DC ± 10% at 2 A max. 870 mm Models: 24 V DC ± 10% at 3 A max. 1160 mm Models: 24 V DC ± 10% at 4 A max. Strobe Voltage: 5 V DC to 24 V DC Built-in constant current regulator for LEDs Use only with a suitable Class 2 power supply (UL) or SELV power supply (CE) See the electrical characteristics on the product label.

Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise.



Construction

Useful Life

hours

Environmental Rating IEC IP50 Certification

CE

Housing: black anodized aluminum Window: acrylic

Operating Conditions Temperature: 0 °C to +50 °C (+32 °F to +122 °F) 4 M5 T-nuts included, brackets available

A = Window

B = 5-pin Euro-style male connector

Array Length	Length "L"	Lighted Area "A"
145 mm	171 mm (6.73 in)	161 x 35 mm (6.33 in x 1.38 in)
290 mm	316.5 mm (12.46 in)	307 x 35 mm (12.09 in x 1.38 in)
435 mm	462 mm (18.19 in)	452 x 35 mm (17.80 in x 1.38 in)
580 mm	607.5 mm (23.92 in)	598 x 35 mm (23.54 in x 1.38 in)
870 mm	898.5 mm (35.37 in)	889 x 35 mm (35.00 in x 1.38 in)
1160 mm	1189.5 mm (46.83 in)	1180 x 35 mm (46.46 in x 1.38 in)

Accessories

Cordsets

5-Pin Threaded M12/Euro-Style Cordsets—Single Ended					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC20-506	1.83 m (6 ft)		10 7		
MQDC20-515	4.57 m (15 ft)			1.	
MQDC20-530	9.14 m (30 ft)	Straight	42 Typ. [1.65"] M12 x 1 o 15 [0.59"]	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray	

Becommended Ambient Light filter kit for use with PresencePLUS® Cameras.

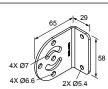
Brackets

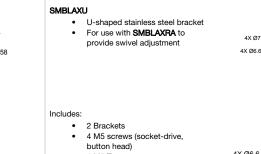
SMBLAXRA

- Right-angle stainless steel bracket
 May be used individually or
- May be used individually or in combination with SMBLAXU to provide swivel adjustment

Includes:

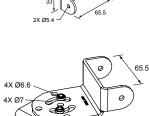
- 2 Brackets
 4 M5 screws (socket drive
- 4 M5 screws (socket drive, button head)
- 4 M5 T-nuts





- 4 M5 T-nuts
- Four each stainless steel ¼-20 screws (socket drive, button head), lock nuts, washers

4X Ø5.4



Combination View

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