

LED..LA..X..5-XQ Series Linear Array Lights

High-Power Lighting for Use with PresencePLUS and Other Vision Systems

Features



- The following array lengths are available, depending on model —
 - 290 mm (11.4")
 - 580 mm (22.8")
 - 870 mm (34.2")
 - 1160 mm (45.6")
- High-power, solid-state LED array; continuous or strobed operation is selectable via sensor software (P4 models) or via hookup (see [Wiring Table](#))
- Optically isolated strobe signal
- Selectable Active High or Active Low strobe option
- LEDs directly illuminate target
- Lens angle of 10°

Models

290 mm (1') Models					
Acrylic Window	Glass Window	Diffuse Window (acrylic)	LED Color	Housing	Optional Ambient Light Filter Kit for PresencePLUS Cameras
LEDILA290XP5-XQ	LEDILA290XG5-XQ	LEDILA290XD5-XQ	Infrared, 850 nm	Black Anodized Aluminum	FLTI
LEDRLA290XP5-XQ	LEDRLA290XG5-XQ	LEDRLA290XD5-XQ	Red, 625 nm		FLTR
LEDBLA290XP5-XQ	LEDBLA290XG5-XQ	LEDBLA290XD5-XQ	Blue, 470 nm		FLTB
LEDGLA290XP5-XQ	LEDGLA290XG5-XQ	LEDGLA290XD5-XQ	Green, 530 nm		FLTG
LEDWLA290XP5-XQ	LEDWLA290XG5-XQ	LEDWLA290XD5-XQ	White, 5500 K		FLTB or FLTG

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580 mm (2') Models					
Acrylic Window	Glass Window	Diffuse Window (acrylic)	LED Color	Housing	Optional Ambient Light Filter Kit for PresencePLUS Cameras
LEDILA580XP5-XQ	LEDILA580XG5-XQ	LEDILA580XD5-XQ	Infrared, 850 nm	Black Anodized Aluminum	FLTI
LEDRLA580XP5-XQ	LEDRLA580XG5-XQ	LEDRLA580XD5-XQ	Red, 625 nm		FLTR
LEDBLA580XP5-XQ	LEDBLA580XG5-XQ	LEDBLA580XD5-XQ	Blue, 470 nm		FLTB
LEDGLA580XP5-XQ	LEDGLA580XG5-XQ	LEDGLA580XD5-XQ	Green, 530 nm		FLTG
LEDWLA580XP5-XQ	LEDWLA580XG5-XQ	LEDWLA580XD5-XQ	White, 5500 K		FLTB or FLTG

870 mm (3') Models					
Acrylic Window	Glass Window	Diffuse Window (acrylic)	LED Color	Housing	Optional Ambient Light Filter Kit for PresencePLUS Cameras
LEDILA870XP5-XQ	LEDILA870XG5-XQ	LEDILA870XD5-XQ	Infrared, 850 nm	Black Anodized Aluminum	FLTI
LEDRLA870XP5-XQ	LEDRLA870XG5-XQ	LEDRLA870XD5-XQ	Red, 625 nm		FLTR
LEDBLA870XP5-XQ	LEDBLA870XG5-XQ	LEDBLA870XD5-XQ	Blue, 470 nm		FLTB
LEDGLA870XP5-XQ	LEDGLA870XG5-XQ	LEDGLA870XD5-XQ	Green, 530 nm		FLTG
LEDWLA870XP5-XQ	LEDWLA870XG5-XQ	LEDWLA870XD5-XQ	White, 5500 K		FLTB or FLTG

1160 mm (4') Models					
Acrylic Window	Glass Window	Diffuse Window (acrylic)	LED Color	Housing	Optional Ambient Light Filter Kit for PresencePLUS Cameras
LEDILA1160XP5-XQ	LEDILA1160XG5-XQ	LEDILA1160XD5-XQ	Infrared, 850 nm	Black Anodized Aluminum	FLTI
LEDRLA1160XP5-XQ	LEDRLA1160XG5-XQ	LEDRLA1160XD5-XQ	Red, 625 nm		FLTR
LEDBLA1160XP5-XQ	LEDBLA1160XG5-XQ	LEDBLA1160XD5-XQ	Blue, 470 nm		FLTB
LEDGLA1160XP5-XQ	LEDGLA1160XG5-XQ	LEDGLA1160XD5-XQ	Green, 530 nm		FLTG
LEDWLA1160XP5-XQ	LEDWLA1160XG5-XQ	LEDWLA1160XD5-XQ	White, 5500 K		FLTB or FLTG

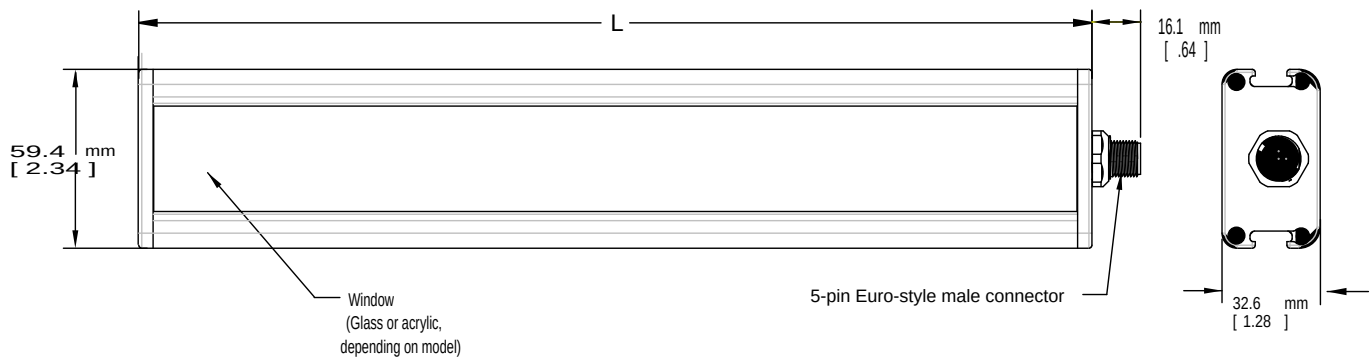
Specifications

Feature	Description
Light Source	LED, see Models on page 1 table for wavelengths
Supply Voltage and Current	1' models: 24V dc @ 800 mA max. 2' models: 24 V dc @ 1.6 A max. 3' models: 24 V dc @ 2.4 A max. 4' models: 24 V dc @ 3.2 A max. Strobe Voltage: 5-24V dc @ 50 mA max.

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Feature	Description
	Built-in constant current regulator for LEDs.
Connections	5-pin Euro-style (M12) male connector; accessory cable required for operation.
Construction	Housing: black anodized aluminum. Window: acrylic or glass, depending on model.
Useful Life	When operated within specifications, output will decrease less than 20% after 50,000 hours.
Operating Conditions	Temperature: 0° to + 50° C (+32° to 122° F).
Mounting	4 M5 T-nuts included, brackets available, see Accessory Brackets on page 6
Environmental Rating	IP 50

Dimensions



Model	L
LED..LA290X..5-XQ	316.5 mm (12.46")
LED..LA580X..5-XQ	607.5 mm (23.92")
LED..LA870X..5-XQ	898.5 mm (35.37")
LED..LA1160X..5-XQ	1189.5 mm (46.83")

Wiring Table

Wire Purpose	Cable Wire Color*	Continuous On Mode	Strobed Mode	PresencePlus Pro Controller Terminal Block
Power Wires	Brown (1)	+24V dc	+24V dc	Pin 01
	Blue (3)	common	common	Pin 02
Strobe Polarity Control	Gray (5)	open	Active Low: open Active High: connect to common (Blue wire)	Pin 02
Strobe Voltage Wires	White (2)	open	0V dc = ON (Active Low) 0V dc = OFF (Active High) +5 to 24V dc = OFF (Active Low) +5 to 24V dc = ON (Active High)	Pin 04
	Black (4)	open	Strobe common	Pin 02

Figure 1: Pinouts

* For Banner-supplied wire.

**Pinouts of the original 4-pin connector is the same as above, but without the center pin (Gray wire).

Note: To meet CE certification requirements, the light needs to be connected to earth ground.

Cables

Model	Length	Description
MQDC20-506	2 m (6')	5-wire cable, straight female Euro-style (M12) connector at one end; flying leads at opposite end
MQDC20-515	5 m (15')	
MQDC20-530	9 m (30')	

 **Note:** These 5-wire cables can also be used on 4-pin connector lights.

Replacement Windows

Model	Description
LEDLA290XW-P	Clear acrylic, 1' model
LEDLA580XW-P	Clear acrylic, 2' model
LEDLA870XW-P	Clear acrylic, 3' model
LEDLA1160XW-P	Clear acrylic, 4' model
LEDLA290XW-G	Clear glass, 1' model
LEDLA580XW-G	Clear glass, 2' model
LEDLA870XW-G	Clear glass, 3' model
LEDLA1160XW-G	Clear glass, 4' model
LEDLA290XCDW-P	Diffuse acrylic, 1' model
LEDLA580XCDW-P	Diffuse acrylic, 2' model
LEDLA870XCDW-P	Diffuse acrylic, 3' model
LEDLA1160XCDW-P	Diffuse acrylic, 4' model
LEDLA290XWDW-P	White diffuse acrylic, 1' model
LEDLA580XWDW-P	White diffuse acrylic, 2' model
LEDLA870XWDW-P	White diffuse acrylic, 3' model
LEDLA1160XWDW-P	White diffuse acrylic, 4' model

Accessory Brackets

Part Number	Description	Bracket
SMBLAXRA	- right-angle metal bracket - may be used individually or used in combination with SMBLAXU to provide swivel adjustment - all brackets are stainless steel	 Includes: 2 Brackets 4 M5 screws (socket drive, button head) 4 M5 T-nuts
SMBLAXU	- U-shaped metal bracket - used in combination with SMBLAXRA to provide swivel adjustment - all brackets are stainless steel	 Includes: 2 Brackets 4 M5 screws (socket-drive, button head) 4 M5 T-nuts - For use with SMBLAXRA, 4 ¼-20 stainless steel screws (socket drive, button head), 4 stainless steel lock nuts, 4 stainless steel washers



Warranty: Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture found to be defective at the time it is returned to the factory during the warranty period. This warranty does not cover damage or liability for the improper application of Banner products. This warranty is in lieu of any other warranty either expressed or implied.