

## 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                                               |

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

| 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                                               |

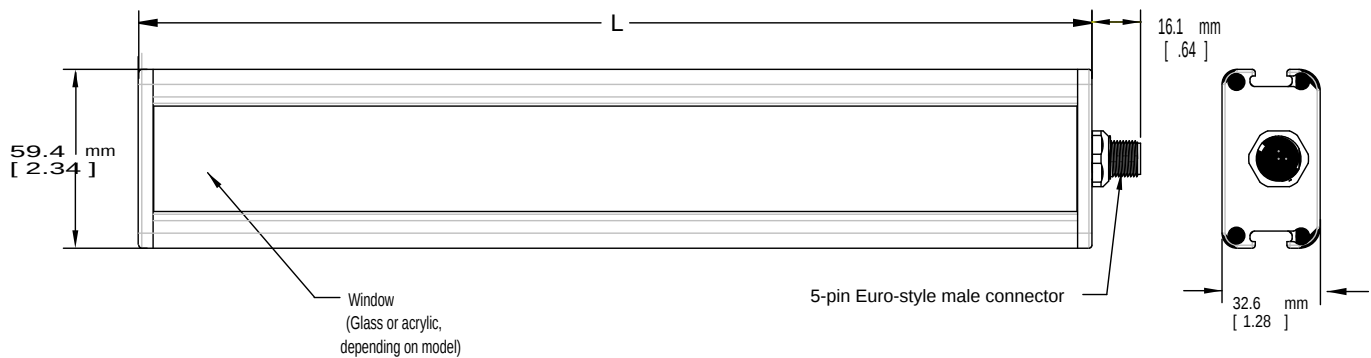
## Specifications

| Feature                    | Description                                                                                                                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Light Source               | LED, see <a href="#">Models</a> on page 1 table for wavelengths                                                                                                                                                      |
| Supply Voltage and Current | <b>1' models:</b> 24V dc @ 800 mA max.<br><b>2' models:</b> 24 V dc @ 1.6 A max.<br><b>3' models:</b> 24 V dc @ 2.4 A max.<br><b>4' models:</b> 24 V dc @ 3.2 A max.<br><b>Strobe Voltage:</b> 5-24V dc @ 50 mA max. |

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| Feature                     | Description                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------|
|                             | Built-in constant current regulator for LEDs.                                                    |
| <b>Connections</b>          | 5-pin Euro-style (M12) male connector; accessory cable required for operation.                   |
| <b>Construction</b>         | <b>Housing:</b> black anodized aluminum.<br><b>Window:</b> acrylic or glass, depending on model. |
| <b>Useful Life</b>          | When operated within specifications, output will decrease less than 20% after 50,000 hours.      |
| <b>Operating Conditions</b> | <b>Temperature:</b> 0° to + 50° C (+32° to 122° F).                                              |
| <b>Mounting</b>             | 4 M5 T-nuts included, brackets available, see <a href="#">Accessory Brackets</a> on page 6       |
| <b>Environmental Rating</b> | 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               | <b>Active Low:</b> open<br><b>Active High:</b> connect to common (Blue wire)                                                           | Pin 02                                     |
| Strobe Voltage Wires    | White (2)         | open               | 0V dc = ON (Active Low)<br><br>0V dc = OFF (Active High)<br><br>+5 to 24V dc = OFF (Active Low)<br><br>+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                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SMBLAXRA</b> | <ul style="list-style-type: none"> <li>right-angle metal bracket</li> <li>may be used individually or used in combination with SMBLAXU to provide swivel adjustment</li> <li>all brackets are stainless steel</li> </ul> |  <p>Includes:</p> <ul style="list-style-type: none"> <li>2 Brackets</li> <li>4 M5 screws (socket drive, button head)</li> <li>4 M5 T-nuts</li> </ul>                                                                                                                                                    |
| <b>SMBLAXU</b>  | <ul style="list-style-type: none"> <li>U-shaped metal bracket</li> <li>used in combination with SMBLAXRA to provide swivel adjustment</li> <li>all brackets are stainless steel</li> </ul>                               |  <p>Includes:</p> <ul style="list-style-type: none"> <li>2 Brackets</li> <li>4 M5 screws (socket-drive, button head)</li> <li>4 M5 T-nuts</li> <li>For use with SMBLAXRA, 4 ¼-20 stainless steel screws (socket drive, button head), 4 stainless steel lock nuts, 4 stainless steel washers</li> </ul> |



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