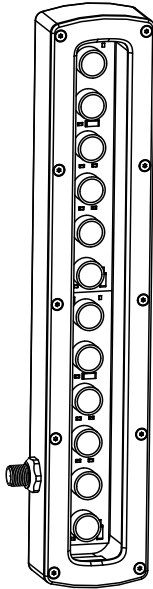


Sealed Linear Array Lights



IP68 Lighting for use with Vision Systems in Washdown Environments

For the latest technical information about this product, including specifications, dimensions, and wiring, see www.bannerengineering.com/lineararraylights



- Four high-intensity, visible wavelengths, plus IR and UV
- Rugged, waterproof housing, rated IEC IP68
- The following array lengths are available:

- 290 mm (11.4")
- 435 mm (17.7")
- 580 mm (22.8")

- 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
- Available with 316 stainless steel or nickel-plated aluminum housing
- LEDs directly illuminate target
- Lens angle of $\pm 6.5^\circ$ on visible and IR models, lens angle of $\pm 5^\circ$ on UV 395 nm models, reflector cup angle of $\pm 15^\circ$ on UV 365 nm models
- Three window materials from which to choose: clear acrylic, clear glass, and clear diffusing acrylic
- Maintenance-free, rugged construction
- Built-in constant current regulation
- Very even light pattern (as close as 76.2 mm or 3 inches)

Model Key

| Light Source | LED Color | Linear Array | Array Length | Housing | Window* | Relative Intensity | Intensity Control | Connector |
|--------------|---|--------------|----------------------------|--------------------------------------|---|--------------------|--------------------|-----------|
| LED | R | LA | 290 | A | P | 6 — | X | Q |
| | R = Red W = White B = Blue G = Green I = IR UV365 = UV365 nm† UV395 = UV395 nm‡ | | 290 mm 435 mm 580 mm | A = Aluminum SS = Stainless Steel | P = Clear Plastic G = Glass D = Diffuse Plastic | | X = Not Adjustable | Q = QD |

* UV365 Only available with glass window

† Risk Group 1 :
NOTICE: UV Emitted from this product.
 Minimize exposure to eyes or skin. Use appropriate shielding and eye protection. Risk Group 1 (RG 1) products are safe for most use applications, except for very prolonged exposures where direct ocular exposures may be expected.
 - IEC 62471



‡ Risk Group 2:

CAUTION: UV Emitted from this product.

Eye or skin irritation may result from exposure. Use appropriate shielding and eye protection. Risk Group 2 (RG 2) products generally do not pose a realistic optical hazard if aversion responses limit the exposure duration or where lengthy exposures are unrealistic.

- IEC 62471

Specifications

Light Source

| LED Color | Wavelength | Optional Filter * |
|-----------|-------------|-------------------|
| Infrared | 850 nm | FLTI |
| Red | 620-630 nm | FRLR |
| Blue | 465-485 nm | FLTB |
| Green | 520-535 nm | FLTG |
| White | 5000-8300 K | FLTB or FLTG |
| UV | 365 nm | FLTB |
| | 395 nm | |

*Recommended Ambient Light filter kit for use with *PresencePLUS* Cameras.

Connections

5-pin Euro-style (M12) male connector; accessory cordset required for operation

Construction

Housing: nickel-plated aluminum or 100% 316 stainless steel, depending on model

Window: acrylic or glass, depending on model

Supply Voltage and Current

290 mm Models: 24V dc \pm 10% @ 1 A max.

435 mm Models: 24V dc \pm 10% @ 1.5 A max.

580 mm Models: 24V dc \pm 10% @ 2 A max.

Strobe Voltage: 5-24V dc

Built-in constant current regulator for LEDs

Useful Life

When operated within specifications, output will decrease less than 30% after 50,000 hours for visible and IR models; 20,000 hours for UV models

Operating Conditions

Temperature: 0° to + 50° C (+32° to 122° F)

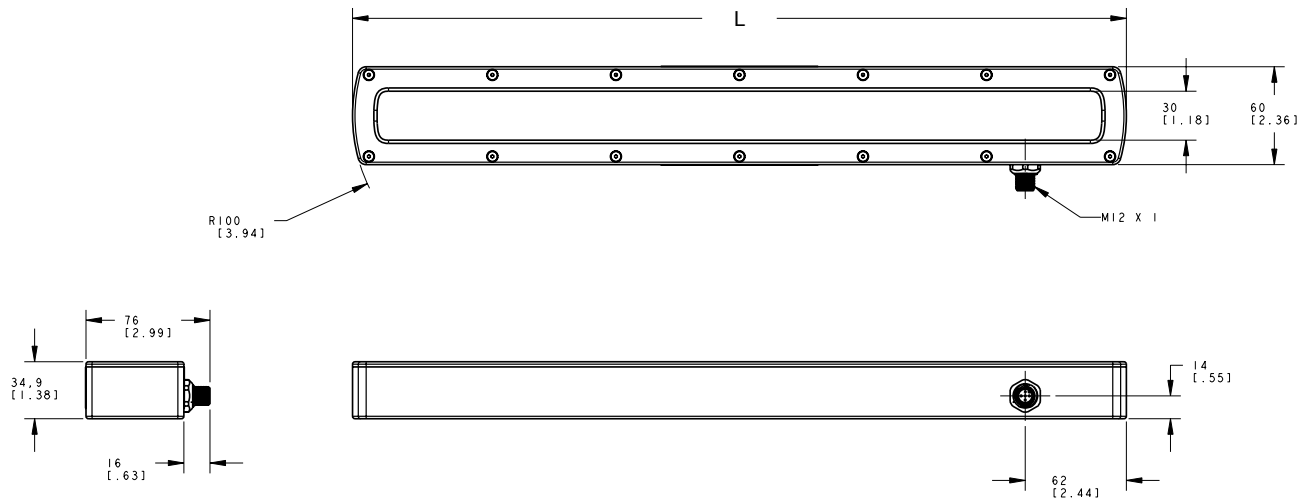
Mounting

(4) 1/4"-20 threaded holes in back; brackets available

Environmental Rating

IP68

Dimensions



| Array Length | Length "L" |
|--------------|-----------------|
| 290 mm | 328 mm (12.91") |
| 435 mm | 474 mm (18.66") |
| 580 mm | 621 mm (24.45") |

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 | Pin 02 |
| | | | Active High: connect to common (Blue wire) | |
| Strobe Voltage Wires | White (2) | open | 0V dc = ON (Active Low) +5 to 24V dc = OFF (Active Low) | Pin 04 |
| | | | 0V dc = OFF (Active High) +5 to 24V dc = ON (Active High) | |
| | Black (4) | open | Strobe common | Pin 02 |

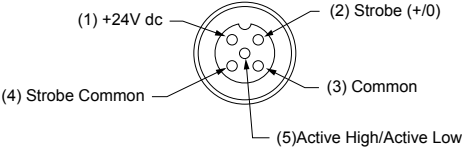


Figure 1. Pinouts for Mating Cable

* For Banner-supplied wire.

** When connecting the light to a PresencePLUS Pro controller terminal block, the controller supply must be 24V dc \pm 10%.



NOTE: Connection to earth ground recommended.

Accessory Cordsets

| For use with nickel-plated aluminum housing: | For use with stainless steel housing: |
|---|---|
| <p>5-Pin Quick-Disconnect (QD) Cordsets</p> <p>5-wire cable, straight female Euro-style (M12) connector (nickel-plated brass coupling nut) at one end, with flying leads at opposite end.</p> <p>MQDC20-506, 2 m (6')</p> <p>MQDC20-515, 5 m (15')</p> <p>MQDC20-530, 9 m (30')</p> | <p>5-Pin Quick-Disconnect (QD) Cordsets</p> <p>5-wire cable, straight female Euro-style (M12) connector (stainless steel coupling nut) at one end, with flying leads at opposite end.</p> <p>MQDC20SS-506, 2 m (6')</p> <p>MQDC20SS-515, 5 m (15')</p> <p>MQDC20SS-530, 9 m (30')</p> |

Accessory Brackets

SMBLASRA

- Right-angle metal bracket
- May be used individually or two used in combination to provide swivel adjustment
- Brackets and hardware are 316 stainless steel



NOTE: If double-bracket mounting will be used, order 2 sets of brackets per light.

Single Bracket



Double Bracket



Includes:

- 2 Brackets
- Four ¼-20 stainless steel screws (socket drive, button head)
- 2 stainless steel lock nuts (used only with double brackets)
- 2 stainless steel washers (used only with double brackets)

Replacement Windows

| Array Length | Clear Glass | Clear Acrylic | Diffuse Acrylic | White Diffuse Acrylic |
|--------------|--------------|---------------|-----------------|-----------------------|
| 290 mm | LEDLA290SW-G | LEDLA290SW-P | LEDLA290SCDW-P | LEDLA290SWDW-P |
| 435 mm | LEDLA435SW-G | LEDLA435SW-P | LEDLA435SCDW-P | LEDLA435SWDW-P |
| 580 mm | LEDLA580SW-G | LEDLA580SW-P | LEDLA580SCDW-P | LEDLA580SWDW-P |

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