

# AL-S025300 EuroBrite<sup>™</sup> Bar Light

## S Version Combination Strobe/Continous

#### Product Highlights

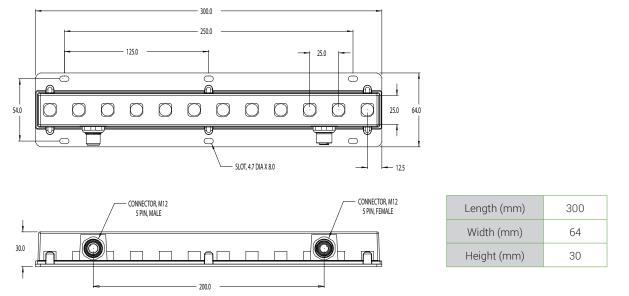
- Cost-effective, feature-rich design
- Robust, sealed IP67 enclosure
- On-board smart driver seamless strobe or continuous
- Adaptive Overdrive optimized power under all strobe conditions
- Adaptive Power factors in your light heat sink options and external temperature options to maximize performance and lifespan
- Daisy-chain up to 4 units with pass-through control

### General Specifications



|  | Color   | Current  |  |  |
|--|---|--|--|--|
| Electrical Specifications<br>Driver internal to light source<br>inputs are tolerant to 30VDC | WHI<br>625<br>470   | ~0.36A<br>Current draw will depend on what the<br>EuroBirte <sup>—</sup> is trained to do. If it is attached to a<br>heat sink; draw will be slightly higher. No heat<br>sinking, draw will be slightly lower. |  |  |
| Input Voltage Range  | 24V nom. (min 22/max 28)  |  |  |  |
| Maximum Input Current  | 0.42-0.49A  |  |  |  |
| Strobe/On-Off Control  | up to 5X overdrive, active high   |  |  |  |
| Analog Intensity Control   | Analog 0.7-10V; 0.7V=10% 10V=100%   |  |  |  |
| Trigger-to-Pulse Latency   | 10µsec  |  |  |  |
| Normal Operating Temperature   | 0 - 60°C  |  |  |  |
| Weight (g)   | 241g  |  |  |  |
| Standard Cable Information   | No cable included; see part number <b>LC.5-M12-5-FX</b> and <b>LC.5-M12-5-FM</b> or use standard coded 5-pin M12. |  |  |  |
| Photobiological Risk Factor<br>IEC 62471   | Group 1 (Low-Risk): No photobiological hazard under normal behavioral limitations for 470, 625, and WHI.          |  |  |  |
| Compliance   | CE ROHS IEC 62471   |  |  |  |
| IP Rating  | IP67  |  |  |  |
| Lumen Maintenance  | L70 = 50,000 hours  |  |  |  |

## Mechanical Specifications



Dimensions are in millimeters

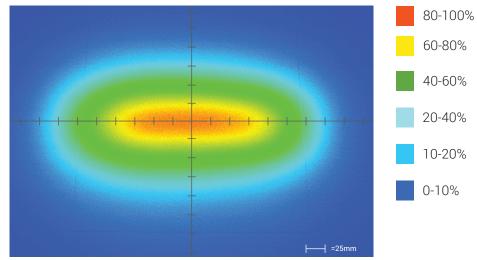
### Part Number Key

| Model |                      | Control       | Model<br>Indicator | Lens<br>Option⁴                            |   | Spectral<br>Wavelength                       |
|-------|----------------------|---------------|--------------------|--|---|--|
| AL    |                      | Х             | XXXXXX             | X  | - | XXX  |
| AL    |                      | S<br>(strobe) | 025300             | M<br>(medium spread)<br>W<br>(wide spread) |   | 470 (blue)<br>625 (red)<br>WHI (white)       |
|       | 25300M-4<br>25300W-V |               |                    |  |   | n angle (FWHM):<br>tandard) = 21°<br>W = 32° |

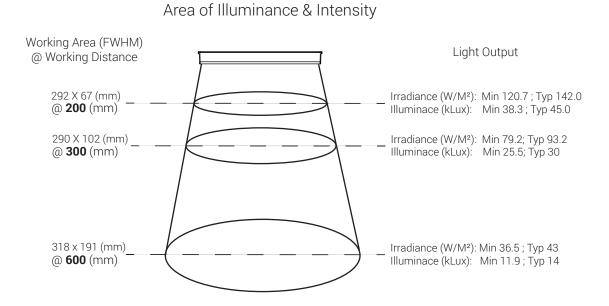
Stock Product: shipped next day AL-S025300M-470 AL-S025300M-625 AL-S025300M-WHI Build to Order: shipped in two weeks

## Optical Performance

#### Intensity Distribution



Optical measurement taken using AL-S025300M-WHI @ 300 mm



## Operation & Wiring

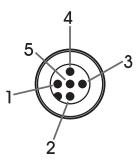
### Modes of Operation

| Continuous  | Strobe  | Thermal Foldback   |
|---|---|--|
| To enable output:<br>Tie Trigger+ (black) HIGH to >0.5V.<br>The light remains ON as long as Trigger+<br>is high<br>Analog dimming is available: pin 5, gray | EuroBrite <sup>™</sup> S-version uses Adaptive<br>Overdrive <sup>™</sup> to produce overdrive pulses<br>while the trigger is HIGH.<br>Overdrive period occurs from 0-5msec;<br>light output can be increased by as<br>much as 5X. | To engage Thermal Foldback:<br>Before turning the light on, tie pin 2<br>(white) to pin 3 (GND, blue).<br>Onboard thermistor is sampled for 5<br>minutes. Light intensity will automatical-<br>ly adjust based on the Tcase during the<br>training period. |
|   | Overdriving does not occur when pulses<br>exceed 5msec.<br>Analog dimming is available: pin 5, gray   | The beginning of training is signified by a<br>series of rapid flashes. While training, the<br>light will blink every two seconds. A few<br>slower blinks signal the end of the<br>training period   |

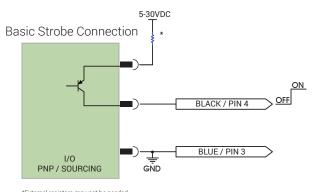
## Standard Wiring Information

| Pin | Function         | Wire Color | Туре  |
|-----|------------------|------------|-------|
| 1   | 24VDC            | Brown      | Power |
| 2   | Thermal Foldback | White      | Input |
|     |                  | Blue       | Power |
| 3   | GND              | Diue       | Fower |
| 4   | GND<br>Trigger + | Black      | Input |

### Male 5-Position

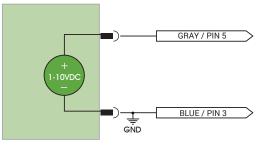


# Wiring Diagrams



\*External resistors may not be needed Check documentation on I/O for recommendations and voltage limits





Analog dimming works in both strobe and continuous

#### Warranty Information

Every Advanced illumination, Inc. (Ai) product is thoroughly inspected and tested before leaving the factory. Products are warranted to be free of defects in workmanship and materials for a period of two years from the original date of purchase. Should a defect develop during this period, please contact Ai Customer Service or your Ai distributor for a Return Merchandise Authorization (RMA), and return the complete product, freight prepaid, to Ai. If a defect is found, Ai will - at our discretion - repair or replace the product without charge. Ai claims no liability for any implied warranties, including "merchantability" and "fitness for a specific purpose."

#### Electromagnetic Compatibility

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility (EMC) as stated in the product specifications. These requirements and limits are designed to provide reasonable protection against harmful interference only when the product is operated in its intended industrial electromagnetic environment. To minimize the potential for electromagnetic interference or unacceptable performance degradation, install and use this product in strict accordance with the instructions in the product documentation.

#### Customer Service

For information on existing orders, or to make an order adjustment, contact us Monday through Friday 8:00 am to 5:00 pm, EST or send an email to orders@advill.com.

#### Company Information

### **Advanced Illumination**

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