



## inline Strobe Unit

### Built-in Strobe

- Aii** Built into the power cable
- Aii** Manual potentiometer adjustable range of 30 to 300 $\mu$ Sec output pulse-width
- Aii** Timing Bypass Option



shown with the RL121

The ISU (Inline Strobe Unit) is a small, lightweight strobe source designed to drive LED light assemblies up to a maximum current of 12A (pulse-width dependent). The unit resides outside of the associated light head being placed “inline” with the light head power cable. Maximum light head drive current is set at the factory for a given light source while a user adjustable range of 30 to 300 $\mu$ Sec output pulse width is available (via potentiometer or through trigger pulse width). The unit is designed to operate with a DC input voltage of between 18 and 35 volts.

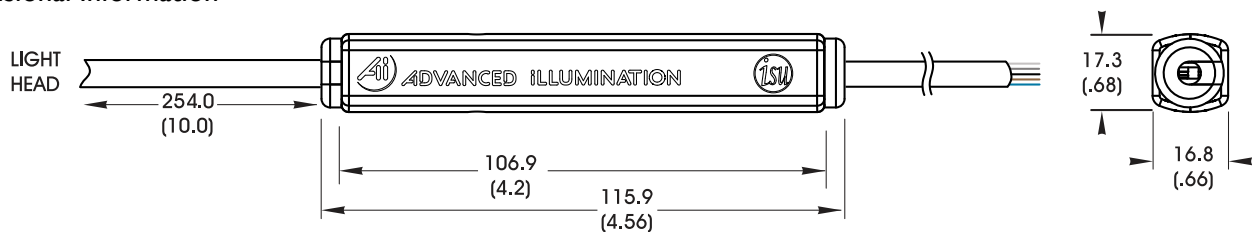
The unit has two triggering modes of operation:

**Fixed Trigger Mode:** Selectable pulse width range of 30-300 $\mu$ Seconds that is accessible via user-adjust potentiometer.

**Timing Bypass Trigger Mode:** Output Pulse width follows the width of input trigger. User-adjust potentiometer sets the maximum.

An active high and active low input trigger is available. External wire (mode select) must be connected to GND (0V in this case) in order to select timing bypass model.

### Dimensional Information



*The iSU is not detachable.* Standard location is 10" from the light head; if necessary, a different cable length and / or iSU location can be specified when ordering. Standard Cable Length (including ISU) is 1.5M (59").

DIMENSIONS ARE IN MILLIMETERS (INCHES)

## ISU SPECIFICATIONS

| Parameter                                              | Specification                                                                    | Notes                                               |
|--------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Input Voltage Range</b>                             | +18 to 30VDC                                                                     | 24V nominal                                         |
| <b>Strobe output</b>                                   | 0 - 12A*                                                                         | * Pulse-width/Light head dependent                  |
| <b>Max. Repetition Rate</b>                            | 100 Hz **                                                                        | ** Light head dependent                             |
| <b>Current Output Adj.</b>                             | Min to Max Current adj. as established by factory setting                        | Maximum current set assuming 300µSec operation      |
| <b>Max. Input Current</b>                              | 1.1A                                                                             | Approx 100mA local                                  |
| <b>Trigger</b><br>Active HI: WHITE<br>Active LO: BLACK | Active HI: WHITE<br>Active LO: BLACK                                             | TTL compatible, 30VDC tolerant                      |
| <b>Mode Select</b>                                     | Select wire that is used to put the unit into Standard or Bypass triggering mode | - Pulled 0 for bypass<br>- Unconnected for standard |
| <b>Mechanical &amp; Environmental</b>                  |                                                                                  |                                                     |
| <b>Power Indicator</b>                                 | Red LED is used to indicate power is being supplied                              |                                                     |
| <b>Storage Temperature</b>                             | -40 to +125C                                                                     |                                                     |
| <b>Operating Temperature</b>                           | 0 to +70C                                                                        |                                                     |
| <b>Housing Material</b>                                | High Impact Polycarbonate                                                        |                                                     |
| <b>Weight</b>                                          | Approx 1.7 oz                                                                    | Cable Not Included                                  |
| <b>Size</b>                                            | Approx 4.55L x 0.67W x 0.70H                                                     | Inches                                              |

## ISU PINOUT

|              |                                                                                                   |
|--------------|---------------------------------------------------------------------------------------------------|
| <b>BROWN</b> | VIN +                                                                                             |
| <b>BLUE</b>  | VIN -                                                                                             |
| <b>WHITE</b> | Active high trigger input                                                                         |
| <b>BLACK</b> | Active low trigger input                                                                          |
| <b>GRAY</b>  | Trigger Mode Select: Connect to 0V to enable timing bypass. Leave floating for fixed trigger mode |

## ISU TRIGGER MODES

