



inline Strobe Unit

Built-in Strobe



- Aii** Built into the power cable
- Aii** Manual potentiometer adjustable range of 30 to 300 μ 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 μ 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.

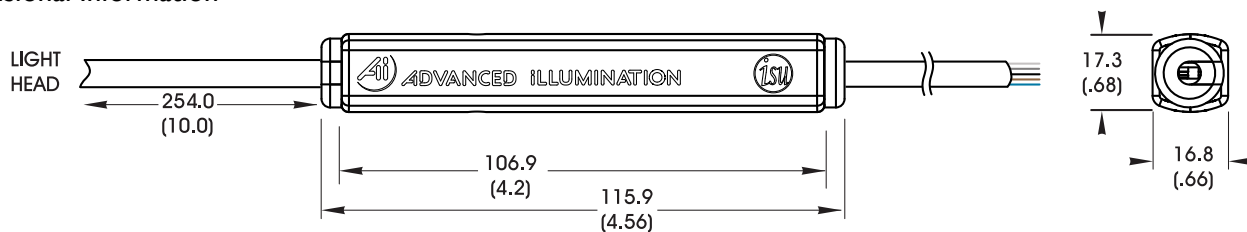
The unit has two triggering modes of operation:

Fixed Trigger Mode: Selectable pulse width range of 30-300 μ 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)

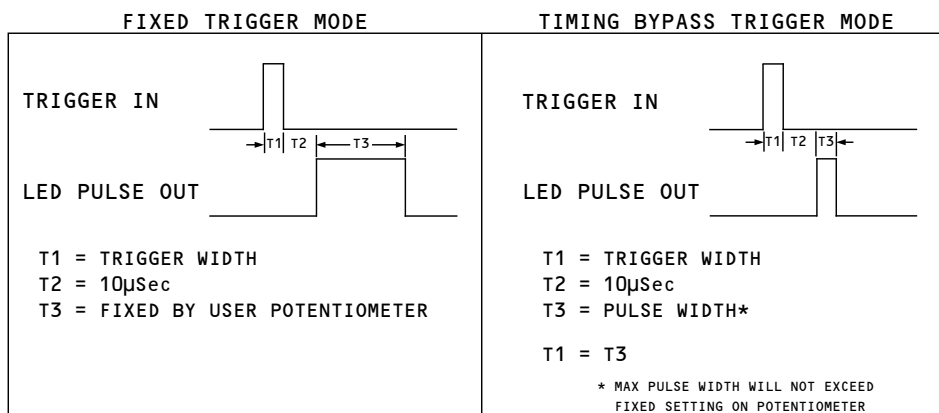
ISU SPECIFICATIONS

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

ISU PINOUT

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

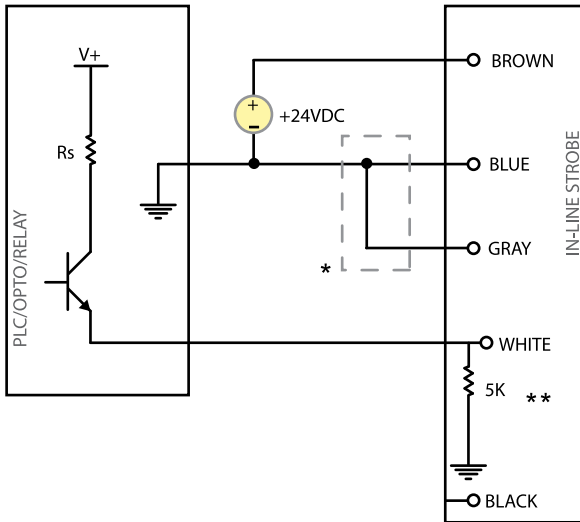
ISU TRIGGER MODES



Sourcing Output

Triggered When White is High

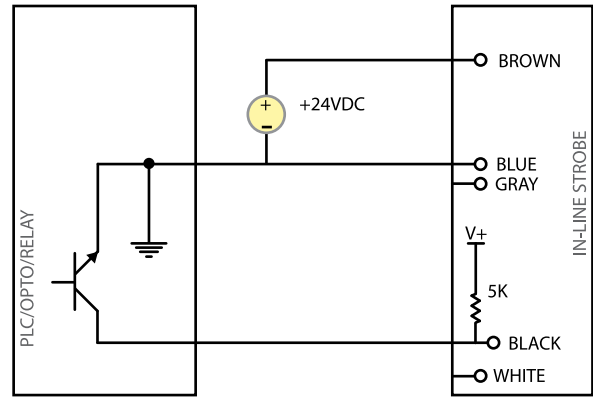
NPN Sourcing



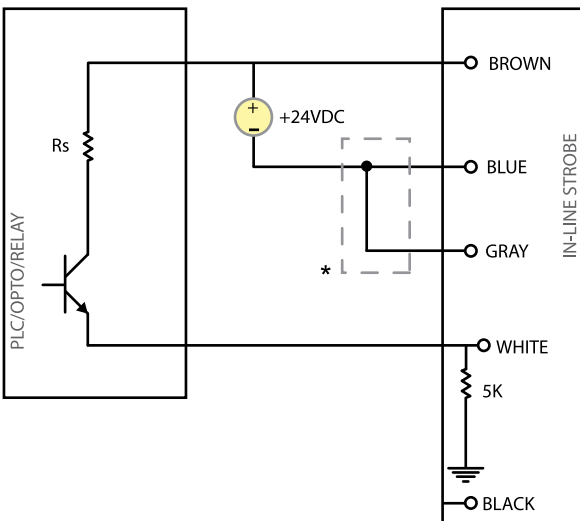
Sinking Output

Triggered When Black is Low

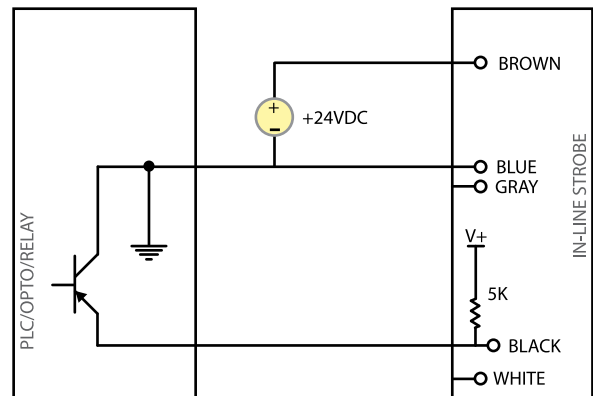
NPN Sinking



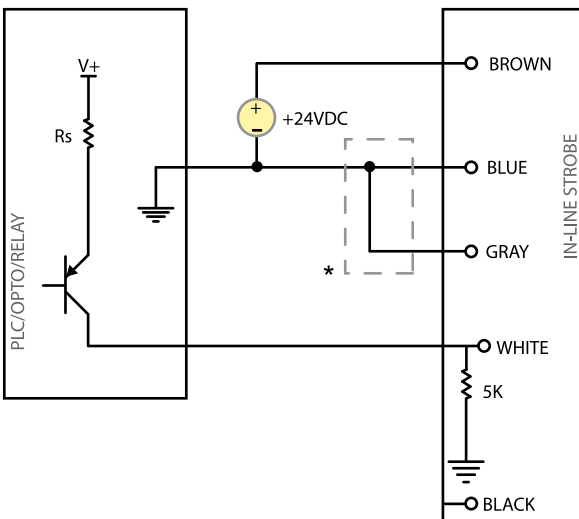
NPN Sourcing - Common (V+)



PNP Sinking



PNP Sourcing



IMPORTANT NOTES:

- FOR BEST RESULTS, AVOID RUNNING THE CABLE NEAR HIGH NOISE ENVIRONMENTS
- THE TRIGGER SOURCE AND ISU MUST SHARE A COMMON GROUND FOR REPEATABLE LIGHTING
- TIE THE BARE DRAIN WIRE OF THE ISU TO A CHASSIS GROUND OR EARTH GROUND; IF ONE IS NOT AVAILABLE, TIE TO -24V

* OPTIONAL: TIE GRAY TO -24V (BLUE) FOR TIMING BYPASS SELECTION; OUTPUT PULSE WIDTH WILL MATCH THE INPUT TRIGGER WIDTH

** ALL RESISTORS SHOWN ARE INTERNAL TO THE ISU. NO EXTERNAL RESISTORS ARE NEEDED