

TRIPOD LIGHT TP1 Series with Internal Driver



ELECTRICAL:

Input Voltage: 12-30VDC

Input Current: 80 to 110mA typical (300mA max for burst) @24VDC per module Strobe Input Impedance: $13.7K\Omega - PNP$ input typical per module, $9.2K\Omega - NPN$ input typical

Strobe Timing: <20 microseconds from strobe to LED on

0-10V Input Impedance: 18KΩ typical per module

0-10V Input Control: 0V = 100%, 10V = 0% LED current. (Can be left disconnected for 100% LED current)

Variable Intensity: Adjustable via 5 turn trim potentiometer from 0% (CCW) to 100% (CW).

LED Error Output: NPN (pull down) on error, $1.2K\Omega$ impedance

Wiring: Pin # Function

1 Error out – LED open/shorted

0-10VDC analog intensity control – 0V = 100%, 10V = 0%
 PNP STROBE INPUT: < 1 VDC for "OFF" >3 ≤30 VDC for "ON"

4 NPN STROBE INPUT: GND for "ON" Open for "OFF"

5 0VDC (DC GND) 6 +12 to +30VDC

ENVIRONMENTAL:

Operating Temperature: 0 to 50°C

Relative Humidity: 5 to 85% non-condensing

MECHANICAL:

Main Connector: Header & Connector with screw connection – 6 pin

Stack Connector: PCB edge connector - 7 pin

ILLUMINATION:

Light Source: LED – available in 4 Colors

Quantity HB LED's: 1

LED Lense: 25 degree (12.5° half angle)

LED Life: up to 50,000 hours*.

*Contact us for LED life information

FEATURES:

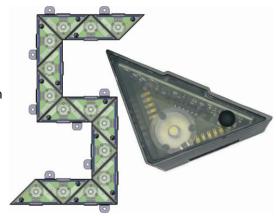
- User size and shape configurable
- Thermally conductive housing
- Master or Slave configurable
- Up to 50 modules @24VDC can be run from 1 input connector
- Auto burst overdrives LED for 0.5ms then drops to standard current
- Auto burst disable switch

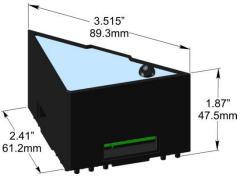
PART NUMBER DESIGNATION: TP1-XXX

XXX = Light Color - 470, 530, 630, WHI

Color	Dash #	λ Dominant Typical	λ Dominant Range	Spectral Half-width Δλ½	λ Peak Typical	Units	Typical mW per LED
Blue	-470	465	455 - 475	21	453	nm	588
Green	-530	530	525 - 535	39	518	nm	245
Red	-630	625	618 - 630	17	632	nm	280
Pure White	-WHI	Color Temp 5700 - 7000K CRI 70 typ					476

Other colors available on request







Pyramid Imaging Inc 945 East 11th Avenue Tampa, FL 33605 https://pyramidimaging.com Sales@pyramidimaging.com (813) 984-0125