

FLASHLAMP SIMMER SUPPLY

- 150mA SIMMER CURRENT
- 1125V OPEN CIRCUIT VOLTAGE
- AUTOMATIC BOOST TO MAINTAIN ARC
- UP TO 28W OUTPUT
- SCR DRIVE FOR TRIGGER TRANSFORMER



DESCRIPTION:

The **Model 867** simmer supply is designed to strike and maintain a low-level current discharge in flashlamps. Initially, the simmer output open circuit voltage rises to a stabilized 1125V. The simmer trigger output provides an SCR discharge of 350V at 20mJ to drive a trigger transformer. When the lamp is struck, the trigger pulses are inhibited and the supply provides a constant current to the flashlamp. Immediately after PFN discharge, the current is boosted automatically to maintain the arc. An external ballast is not normally required. For high pressure, long-arc lamps or dual lamps, *Model 862A* is recommended.

SPECIFICATIONS:

Input		Efficiency	75% typical including internal ballast.
Voltage	+24VDC to +30VDC at 1A typical.	Simmer Trigger	
Simmer Output		Voltage	-350V at 20mJ
Voltage	Up to 250V (depending on flashlamp.) Flashlamps should be processed for simmer operation.	Pulsewidth	≥1μs
Open Circuit	1125V, ±75V	Repetition Rate	Automatic restrike at ≈25Hz, if flashlamp is not lit.
Current	150mA	Temperature	0° to 70°C
Boost	Up to 400mA for 2ms.	Connections	
Current	For >30Hz laser PRF, boost must be disabled (Add -D to part number.)	Input/Output/ Power	Molex, 19-09-1099
Enable	+3.0 to +32V enables simmer, 18k impedance. May be tied to DC input power.	Mating	Molex, 19-09-2098
		Size	5.25" x 2.40" x 1.30"

Specifications subject to change without notice.



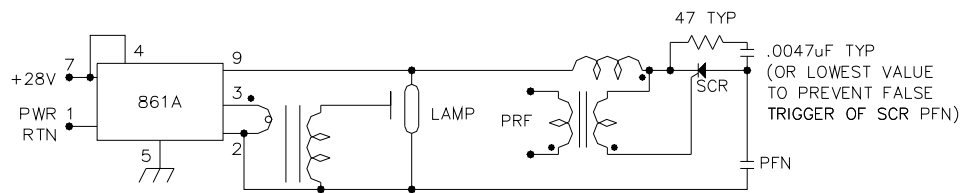
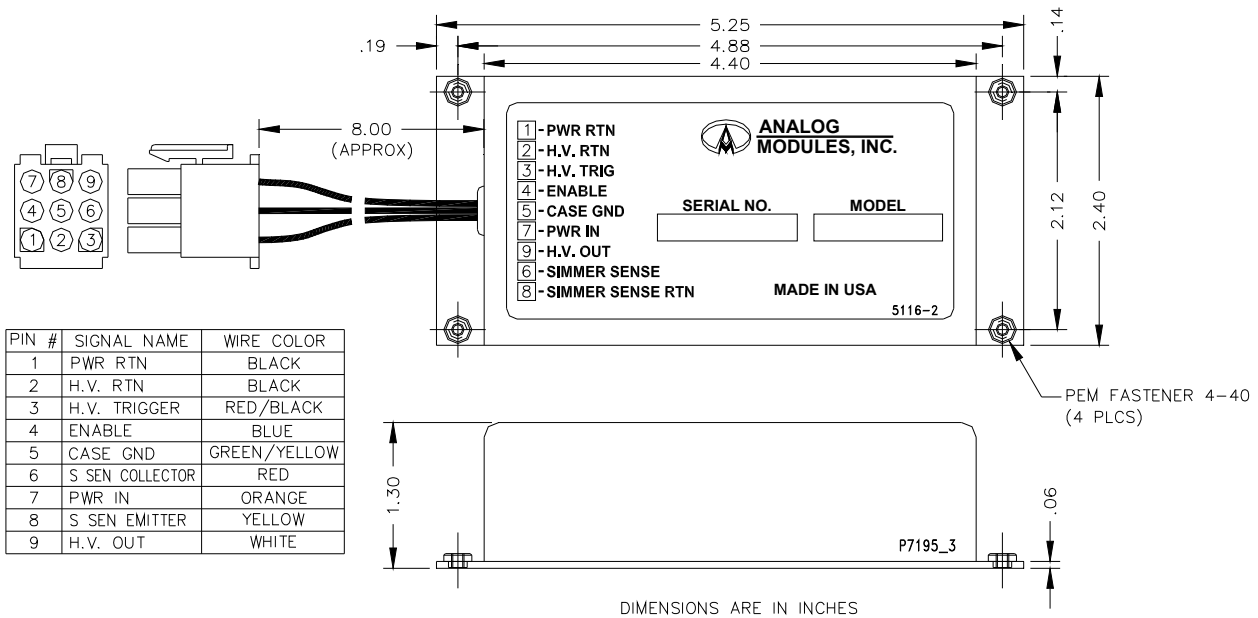
APPLICATIONS:

Full Simmer Supply with SCR Trigger Drive for Flashlamps

		MODEL NUMBER
		OUTPUT CURRENT
		150mA
INPUT VOLTAGE	+24VDC TO +30VDC	867

Typical Part Number: **867-D =**

Input Voltage: +24 to 30VDC
 Output Current: 150mA
 Automatic Boost: Disabled for >30Hz laser PRF applications



TYPICAL EXTERNAL TRIGGER CIRCUIT

NOTE: BECAUSE OF THE WIDE VARIATIONS IN FLASHLAMPS, ANALOG MODULES, INC. CANNOT GUARANTEE SIMMER OPERATIONS WITH ALL LAMPS.