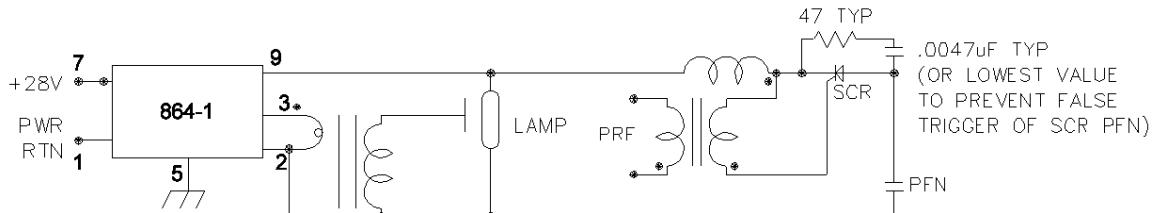




# ANALOG MODULES, INC.

Specialists in Analog and Laser Electronics

## MODEL 864A-1 INTERFACE DESCRIPTION



TYPICAL EXTERNAL TRIGGER CIRCUIT

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

PIN 1 +24 VOLT RETURN Main 24 V power return. Filtered by 3 mH common mode EMI suppression choke (reference Figure 1).

PIN 2 HIGH VOLTAGE OUTPUT AND TRIGGER RETURN

High voltage output, and trigger return. This return is fully isolated from input return, and chassis ground (reference Figure 4).

PIN 3 HIGH VOLTAGE TRIGGER

63 mJ, -520 V trigger pulse at  $\approx$  20 Hz. rate. This signal is present when connected to a trigger transformer referenced to pin 8 (high voltage return) and output voltage is open circuit (reference Figure 4).

PIN 4 ENABLE INPUT

Opto coupled enable input with  $470\ \Omega$  of input impedance. 5 – 20 mA of current to enable module referenced to enable return (reference Figure 3).

PIN 5 CASE GROUND

Chassis ground which is not common to either high voltage return or input return.

PIN 6 CURRENT SENSE COLLECTOR

Collector output of opto coupler which turns on when lamp current is present. Do not exceed 35 V, 10 mA (reference Figure 2).

PIN 7 +24 VOLT INPUT

24 VDC at up to 3.5 A required to power module. Filtered by 3 mH common mode EMI suppression choke (reference Figure 1).

PIN 8 CURRENT SENSE Emitter

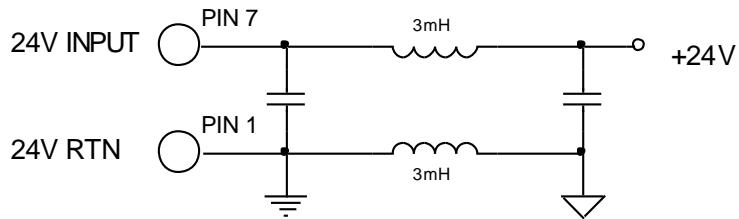
Emiter output of opto coupler which turns on when lamp current is present (reference Figure 2).

PIN 9 HIGH VOLTAGE OUTPUT

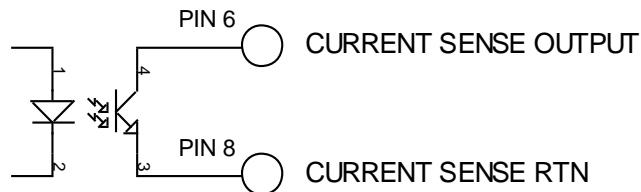
High voltage output of simmer (reference Figure 4).

**MODEL 864-1**  
**INTERFACE CIRCUITS**

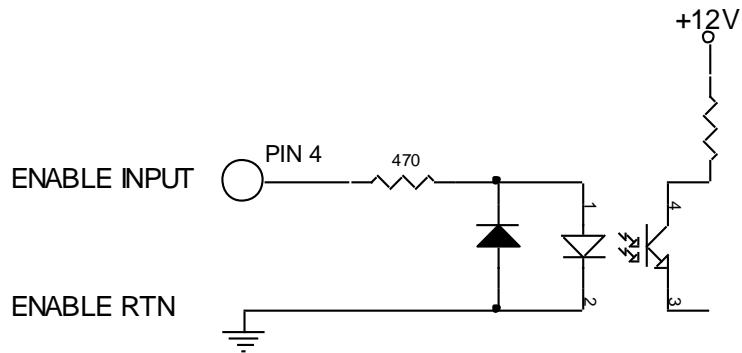
**FIG.1 POWER INPUT**



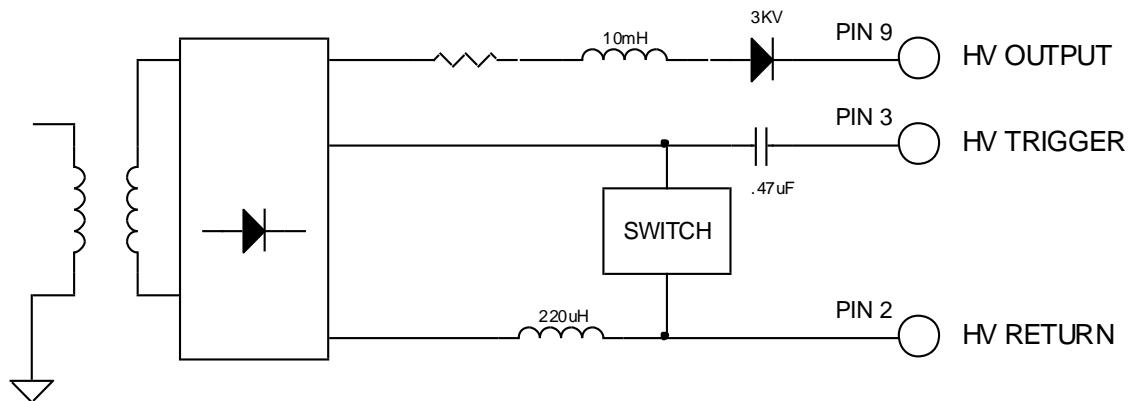
**FIG.2 CURRENT SENSE**



**FIG.3 ENABLE**



**FIG.4 HV/TRIGGER OUTPUT**



5021B.SH3