

# ***SUPERLIGHT***

## **LED TALLY LIGHT CONTROLLER**

HENRY ENGINEERING

PO Box 3796

Seal Beach, CA 90740

Tel: 562.493.3589

www.henryeng.com

### **DESCRIPTION**

SUPERLIGHT is a logic/control interface for controlling low voltage studio tally lights. It can directly power 12 volt DC LED tally lights that draw up to 500 mA. SuperLight includes a flasher circuit, as well as a DPDT relay output that can be used for any low voltage switching, speaker muting, or other utility use.

The LED output can supply 12 vdc at up to 500 ma; it can also “sink” up to 2 amps if used with an external power source. The LED output can be set to “flash” when ON for use with *ON THE AIR* warning lights. All control, relay output, and LED output connections are via plug-in euroblock connectors. Two RJ45 connectors are also provided for Control wiring compatibility with WheatNet-IP Blade and similar installations that use cat5/cat6 wiring.

### **INSTALLATION**

Connection to Control inputs and Relay outputs is via the euroblock connectors. Remove about 1/8” of the insulation, insert wires into the connector, and tighten the screws. Be sure that no bare wires are exposed.

**EUROBLOCK CONTROL INPUT:** SuperLight can be controlled with a maintained DC voltage or ground closure.

**For control with a DC voltage:** SuperLight can be switched on by applying a DC voltage to the **IN+** and **IN-** terminals. Any DC voltage between 5 and 24 volts will switch the unit ON. This input is opto-isolated. Observe polarity.

**For control with a ground closure:** Connect a jumper between the **12V** and **IN+** terminals. Connect an external ground closure between the **IN-** and **G** terminals. A ground closure will switch the unit ON. **NOTE:** If the ground closure is provided by a transistor “open collector”, connect the open collector to the **IN-** terminal, and connect the emitter to the **G** terminal.

**RJ45 CONTROL INPUTS:** Two parallel RJ45 connectors are provided for controlling the SuperLight. The pin-outs can be assigned by the user to be compatible with any cat5/cat6 wiring scheme. To assign pin-outs, open the unit by removing the screws on the top cover. Locate the J5 and J6 multipin headers on the PC board.

Install one jumper on **J5** to assign an RJ45 wire to the **IN+** control input; install one jumper on **J6** to assign an RJ45 wire to the **IN-** control input. Applying a maintained DC voltage (5-24v) to these two wires will switch the SuperLight ON.

The two RJ45 connectors are wired in parallel so that cat5/cat6 cabling can be “looped-thru” the unit. This allows multiple SuperLight units to be controlled with a single cable. Multiple SuperLight units can have the same or different RJ45 pin-outs as needed.

**TALLY LIGHT OUTPUT:** SuperLight can directly power tally lights that require 12 vdc, 500 ma or less. Connect the tally light to the SuperLight **LED+** and **LED-** terminals. Observe polarity.

For tally lights that require more than 12 vdc or 500 mA\*, use an external power source connected as follows: Connect the + voltage source directly to the + wire of the light. Connect the **ground** of the power source to the **G** terminal of the SuperLight, and connect the – wire of the light to the **LED-** terminal on the SuperLight. \*30 vdc, 2 amp maximum.

**FLASH DISABLE:** For installations where the tally light should stay ON “solid” (not flashing), set jumper J8 to OFF.

**RELAY OUTPUT:** SuperLight provides DPDT relay contacts for utility use. The C and NO terminals are active when the unit is ON; the C and NC terminals are active when the unit is OFF. The relay can switch up to 1 amp at 24 volts DC. (Do NOT use these relay outputs to switch AC line voltage!)

### **SPECIFICATIONS**

Control Inputs:	Maintained 5-24 VDC or GPI closure
RJ45 Control:	Maintained 5-24 VDC, user assignable
Tally Output:	12 VDC, 500 mA max.
Ext. Tally Pwr:	30 VDC @ 2A max.
Relay Output:	DPDT dry contacts, 24 VDC @ 1A max.
Power:	12 VDC wall transformer supplied
Size, weight	5.75”w X 3.25”d X 2.0”h, 1lb

