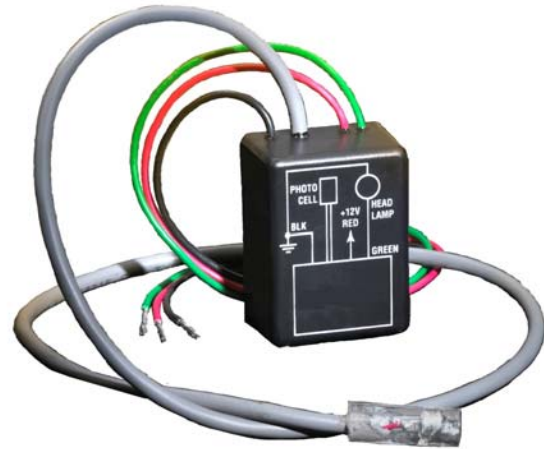




DemonEye™ Motorcycle Headlight Modulator

- Photocell-controlled auto-disable
- Enhances headlight conspicuity
- 100% Solid State
- Quick and easy installation
- Incandescent lamp power rating 120 watts
- Epoxy sealed
- Low cost
- High reliability



The DemonEye motorcycle headlight modulator has been designed to enhance awareness of motorcycle headlamp illumination in accordance with Federal Standard 49, CFR Part 571.108, S7.9.4. Modulation of motorcycle headlamps has been shown to significantly reduce collisions between motorcycles and other vehicles.

The DemonEye is a three wire device that is connected in series with either the high beam or low beam feed wire to the bulb. (See the installation diagram.) A photo-electric sensor is included in the unit to disable modulation at under low light conditions per Federal Standard 49.

The rate of modulation is 240 ± 40 cycles per minute, with maximum power being applied to the headlamp for 50 to 70% of each cycle. During the low intensity portion of the cycle, headlamp power is held to not less than 17% of maximum power.

POWER RATING: 120 Watts incandescent.

INPUT VOLTAGES: 11 to 16 volts (standard automotive range).

OPERATING TEMPERATURE RANGE: -40°C to $+60^{\circ}\text{C}$ / (-40°F to $+140^{\circ}\text{F}$).

MECHANICAL:

Case: Glass reinforced black lexan plastic, epoxy encapsulated for maximum protection against moisture and vibration.

Termination: Three wire termination about 12 inches long. Photocell assembly cable length 18 inches.

Size: $2 \frac{1}{8} \times 1 \frac{1}{2} \times \frac{3}{4}$ inches.

INSTALLATION INSTRUCTIONS:

The DemonLite DemonEye is a three wire device that is connected in series with either the high-beam or low-beam +12 volt wire to the headlamp bulb. DemonEye will only work properly when used in conventional negative-ground systems. Use the following installation procedure:

1. Locate the +12 volt wire that feeds the high-beam or low- beam of the headlamp bulb. This wire will have a +12 volt potential when the desired beam is energized, and zero volts when not. Turn power off
2. Select a location for the DemonEye module.
3. Cut the +12 volt feed wire at a convenient location. Strip back both ends, being careful not to cut into the copper wires.
4. Connect the **GREEN** lead of the DemonEye module to the cut end that feeds the headlamp bulb. Use crimp terminals, wire nuts, or solder as desired.
5. Connect the other cut wire (+12 volt feed from the high-beam/low-beam switch) to the **RED** wire of the DemonEye module.
6. Connect the **BLACK** lead of the DemonEye module to chassis ground.
CAUTION: DO NOT CONNECT GREEN WIRE TO CHASSIS GROUND.
7. If necessary, use insulation to cover any exposed wires.
8. Locate and secure a place on the motorcycle for the photo sensor. Aim the sensor up to measure ambient light coming from the sky.

IMPORTANT: Incorrect connections can destroy the DemonEye module. Check the wiring carefully before applying power.

Note: DemonEye can be installed in any incandescent 12V lamp circuit. Although the high beam bulb is normally selected, the low beam filament, driving lights, fog lights or other white running lights with incandescent bulbs can be modulated using DemonEye.

INSTALLATION DIAGRAM

