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Amperite Co.

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www.Amperite.com

### Amperite Head-Alert Vehicular Headlight Modulator

- Enhancement of motorcycle headlamp illumination
- 100% Solid State
- Quick and easy installation
- Incandescent lamp power rating 120 watts
- Epoxy sealed
- Low cost
- High reliability



The Amperite HEAD-ALERT modulator has been designed to enhance awareness of motorcycle headlamp illumination in accordance with Federal Standard 49, CFR Part 571.106. An external disable switch is used to disable the modulation function during nighttime driving.

The HEAD-ALERT is a two terminal device that is connected in series with the power feed to the lamp (see the installation diagram at right). This safety device has been designed for motorcycle use, to provide additional awareness to other vehicles on the road during daylight hours. The rate of modulation is 200 to 280 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, power to the headlamp is held to not less than 17% of maximum intensity.



#### OUTPUT CIRCUIT:

Solid state switching transistor.



#### POWER RATING:

120 Watts incandescent.



#### INPUT VOLTAGES

11 to 16 volts (standard automotive range).



#### ENVIRONMENTAL INFORMATION:

Operating temperature range -40°C to +60°C / (-40°F to +140°F).



#### MECHANICAL:

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

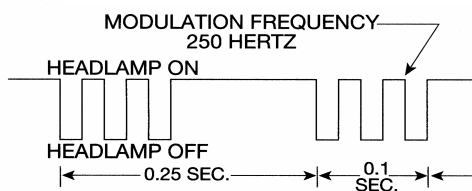
Termination: Two 1/4 inch quick-connect male terminals.

Size: 1 3/4 x 1 1/8 inches (45 x 22 x 29 mm).

Single hole mounting, or two hole panel mount available at extra cost.



#### TIMING DIAGRAM:





## INSTALLATION INSTRUCTIONS:

The Amperite HEAD-ALERT headlamp modulator is a two-terminal device that is connected in series with the headlamp of a motorcycle or other vehicle. Use the following procedure for installation:

1. Locate the +12 volt wire that feeds the headlamp of the vehicle. This lead will have a + 12 volt potential when the headlamp is switched on, and zero when the headlamp is switched off. Turn power off.
2. Noting where the HEAD-ALERT module is to be mounted cut the 12 volt feed wire at a location where it is in closes proximity.
3. Strip both cut ends about 1/4 inch, being careful not to cut into the copper wires.
4. Crimp or solder a 1/4 inch quick female terminal to each cut end.
5. Locate the cut wire that comes from the headlamp switch, and connect it to the positive terminal of the HEAD-ALERT module.
6. Locate the cut wire that feeds the headlamp and connect it to the negative side of the HEAD-ALERT module.
7. **IMPORTANT: Reverse polarity connections will destroy the HEAD-ALERT module. Check the wiring carefully before applying power.**



## INSTALLATION DIAGRAM:

TERMINAL VIEW SHOWN

