

SMiDSY

Unique Motorcycle Visibility & Safety Products



SMiDSY FGHM-2

Headlight Modulator

with Automatic Modulation Depth Control

DISCLAIMER

THIS PRODUCT IS LEGAL FOR USE ON PUBLIC ROADS IN THE USA, CANADA AND AUSTRALIA. THIS PRODUCT *May* OR *May Not* BE LEGAL FOR ROAD USE IN OTHER COUNTRIES. INSTALLATION AND USE IS ENTIRELY AT THE CUSTOMER'S DISCRETION.

THE MANUFACTURERS WILL NOT ACCEPT ANY LIABILITY WHATSOEVER FOR USE OF ITS PRODUCTS WHERE LOCAL LAWS PROHIBIT SUCH USE.

WARNING: DO NOT USE THIS MODULATOR ON HID (High Intensity Discharge) HEADLIGHT SYSTEMS. SERIOUS DAMAGE MAY RESULT TO BOTH MODULATOR AND HID SYSTEM.

AUTOMATIC MODULATION DEPTH CONTROL

The FGHM-2 automatically controls the depth of modulation between 5% & 70% depending on ambient light level. On a very bright day, the unit will operate at 70% depth (Maximum effect). On a dull day, or as daylight begins to fall towards dusk, modulation depth reduces. In accordance with US DOT regulations, modulation will cease at dusk.

HIGH OR LOW BEAM?

The unit can be fitted to either High or Low Beam. We would suggest that if you normally ride with Low Beam in daylight hours, then that is your answer and vice versa for High Beam.

INSTALLATION INSTRUCTIONS

Correctly identify the HIGH BEAM, LOW BEAM and GROUND wires feeding the Headlight bulb. Standard bulbs are 55W low beam, 65W high beam and many are twin filament 65/55W high/low bulbs. This can be achieved by using a test lamp/meter or by disconnecting one wire and trying the lights by elimination process. See www.smidsy.biz/wireID.php for assistance on using the elimination process. Most modern motorcycles will also have a ground wire leading to the bulb holder. Connect the FGHM-2 Ground (Black) to this wire. If in doubt, consult an auto electrician.

You may fit the unit anywhere convenient where it can "see" the sky, and can be attached using cable ties. An adhesive cable tie base is supplied with the unit. The domed end of the unit must point roughly towards to sky, $\pm 45^\circ$ is okay.

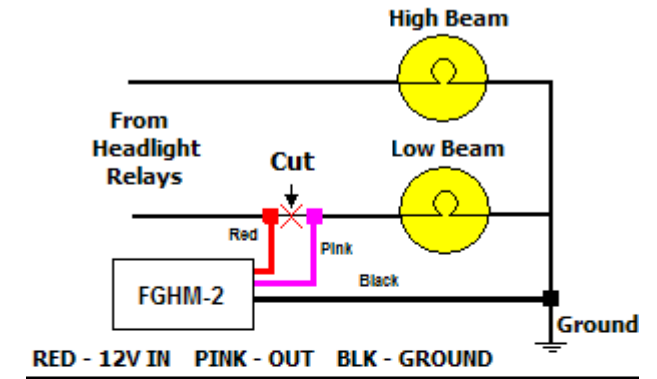
It is best to spend a few extra moments deciding on the best location before cutting any wires.

Due to the fairly high currents involved (approx 6 Amps at maximum load), do not be tempted to use 'Splice In' connectors as these are generally unreliable and will almost certainly become unreliable over time. Bare the insulation on all wires and twist together firmly using pliers, (solder is even better), slide the supplied heat shrink sleeving over the connection and shrink down. Alternatively, use crimp connectors, but apply some sealant to the open ends if the connections are exposed to the weather.

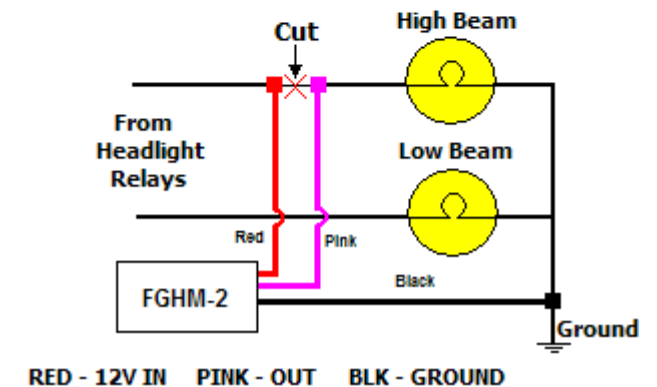
Connect the unit as shown in the wiring diagrams opposite.

IMPORTANT: ENSURE CABLES ARE NOT STRETCHED AT HANDLEBAR TURN LIMITS.

Low Beam Connection Diagram



High Beam Connection Diagram



FGHM-2 SPECIFICATIONS:

| | |
|------------------|------------------------------------|
| OUTPUT FREQUENCY | 4Hz (240 minute) |
| VOLTAGE: | 10-15 VOLTS DC (NEG GROUND) |
| MAXIMUM LOAD: | 70 WATTS |
| UNIT SIZE: | L32mm x 19mm DIA (1.2" x 0.8" DIA) |
| WORKING TEMP: | -20°C to +65°C / -4°F to 149°F |

SMiDSY Electronics - Skipton - UK

EMAIL: support@smidsy.biz

www.SMiDSY.biz
www.SMiDSY.eu