SMiDSY

Electronic Motorcycle Visibility Aids

BMLED-1FG

BRAKE LIGHT MODULATOR WITH REAR FOGLIGHT OPTION

BMLED-1FG OPERATION SEQUENCE:

UPON APPLYING THE BRAKES, THE BRAKE LEDs WILL BE ON AT FULL POWER FOR 0.5 SECONDS.

THE LEDs WILL NOW FLASH RAPIDLY 15 TIMES AT 10Hz AND THEN REMAIN ON AT FULL POWER UNTIL BRAKES ARE RELEASED.

EXCEPT IN MODE 1, IF THE BRAKES ARE RE-APPLIED WITHIN 8 SECONDS, THE LEDs WILL GO ON AT FULL POWER UNTIL BRAKES ARE RELEASED AGAIN. THIS IS TO PREVENT DISTRACTING THE VEHICLE BEHIND IN STOP/GO TRAFFIC.

IF THE BRAKES ARE RELEASED BEFORE THE FULL SEQUENCE IS COMPLETED (2 SECONDS) THE SEQUENCE RE-STARTS FROM THE BEGINNING.

For use on LED Brake lights ONLY

1. General

There are several modes available to you at installation time.

Mode 1: Brake LEDs modulate every time you apply the brakes.

Mode 2: Modulation as per operation sequence shown above.

Mode 3: As Mode 2 , but Brake Lights are held at 30% power when brakes are off, this helps improve your bike's rear visibility. (Note: you can test this mode easily during installation and decide which you prefer).

Mode 4: As Mode 2, but a switch may be fitted to enable/disable the 30% output thereby allowing use as a rear foglight.

NOTE: Do not be concerned that use of the 30% output diminishes the contrast of the Brake LEDs to 70%. The unit compensates for this automatically when the brakes are applied, always giving maximum contrast.

2. Installation

Wire Identification:

RED +12V
YELLOW +12V from brake switches
PINK Output to Brake LEDs
BLACK Ground
GREY 30% Foglight Option, connect to Ground to Disable

Generally motorcycle LED tail/brake light setups will have 3 wires. (Ground, tail light, and brake light). Simply speaking the Modulator interrupts the Brake light feed so it can flash it. In Modes 2,3,& 4, it also requires permanent power when the ignition is on, to function correctly. On most modern bikes, the Tail Light is always on with the ignition and this feed can be used to power the unit, otherwise you will need to find an alternative supply. In the event of supply failure, the unit will revert to Mode 1.

Decide on a location for the Modulator. It's usually best to mount in your tail unit near the LED light cluster.

Locate the LED brake light 12v feed wire to your cluster and 'cut'. Test that your Brake light no longer functions but your tail light does. (you can either indentify this wire with an electrical meter, from a workshop manual, trial and error or, if you get really stuck a local dealer will be able to tell you)

3. Connections (Mode dependent)

ALL MODES, connect the BLACK wire to GROUND and the PINK wire to the LED Cluster Brake line.

MODE 1, connect the Red and Yellow wires together and then connect these to the feed from the Brake switches, The Grey wire is not used. (Centre Diagram)

ALL OTHER MODES: For most modern bikes the tail light is permanently illuminated when the ignition is on, so this can be used as a feed to power the Modulator (if your bike does not have an 'always on' tail light you will need a feed from an "Ignition on" live somewhere else). Connect the RED wire to this feed. Connect the YELLOW wire to the feed from the brake switches. The GREY wire must be connected to GROUND to disable the 30% output when the brakes are off. You can try both options before you tidy all the wiring, alternatively, you can fit a switch between the GREY wire and GROUND to make this function as a Fog Light.

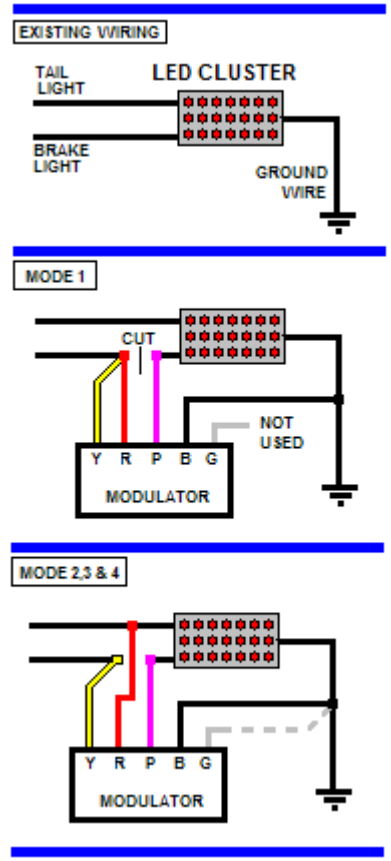
Fix the Modulator box either to some existing wiring with the supplied cable ties, or use its double sided tape to affix to bodywork. Ensure your wiring is nice and tidy and 'tied' up so it does not encroach on any moving parts of your Motorcycle.

WARRANTY

We hope you will be pleased with your purchase. All SMIDSY products are are fully tested after assembly. This product is guaranteed against malfunction or manufacturing defects for a period of 12 months from the date of purchase, provided the unit is installed in accordance with these instructions. Your statutory rights are not affected.

DISCLAIMER: **THIS PRODUCT MAY OR MAY NOT BE LEGAL FOR USE ON PUBLIC ROADS IN YOUR COUNTRY/STATE. 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.



BMLED-1FG SPECIFICATIONS:

VOLTAGE:	10-15 VOLTS DC (NEG. GROUND)
MAX LOAD:	55 WATTS
UNIT SIZE:	40 x 28 x 18mm
WORKING TEMP:	-20C to +70C
MODULATION FREQUENCY	10Hz

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