

DIODE DYNAMICS

PWM DIMMER

2A AUTOMOTIVE PWM DIMMER WITH BYPASS

This document provides basic information regarding the operation and installation of the automotive PWM dimmer module with bypass. This module is designed for use with any single LED lighting component, such as LED strips, halos, etc. With the bypass feature, you can easily accomplish a low/high operation with nearly any LED device.

OPERATION

This module has two positive inputs and a ground connection. The ground connection is required for operation of the dimmer circuit. The two inputs are each protected against reverse voltage flow. One goes directly to the output, to provide a "high" operating mode (100% brightness) while the other powers the PWM dimmer circuit, and is switched with the generated signal to output through a MOSFET. The onboard trimpot allows for adjustment of the dimmer from 10%-100% power, with a maximum rating of 2 amps and 16 volts.

PACKAGE CONTENTS

One pair (two) dimmer modules with preinstalled terminals
Six T-tap style connectors
One mini screwdriver

SPECIFICATIONS

Maximum current: 2A
Maximum voltage: 16V
Minimum voltage: 8V
Forward Voltage: <1.5V

Operating Temperature: -40 to 95 degrees C

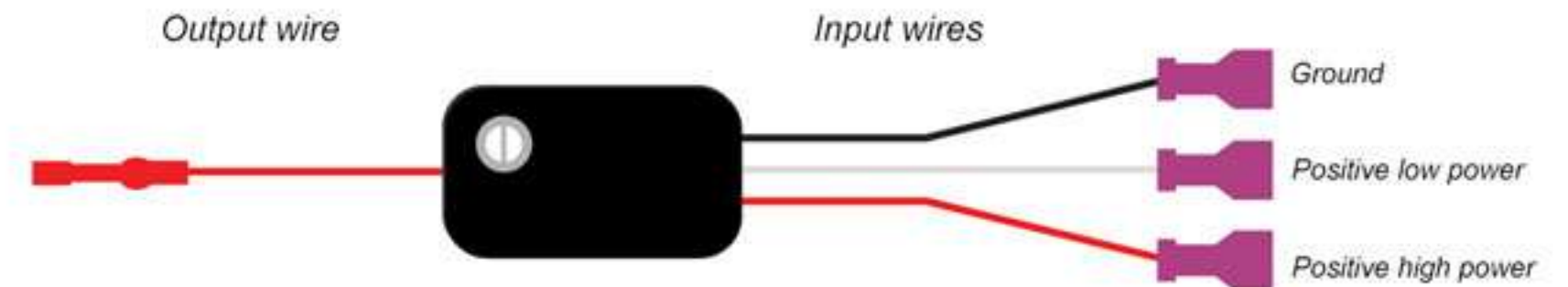
Warranty: 3 year limited

INSTALLATION

Remove modules from package, and identify the wires. On one side, you will have three wires with male terminals:

RED: Positive HIGH power input
WHITE: Positive LOW (dimmed) power input
BLACK: Ground

The other side has a single red positive wire with butt terminal. This is your combined positive output. HIGH output will always override the LOW output.



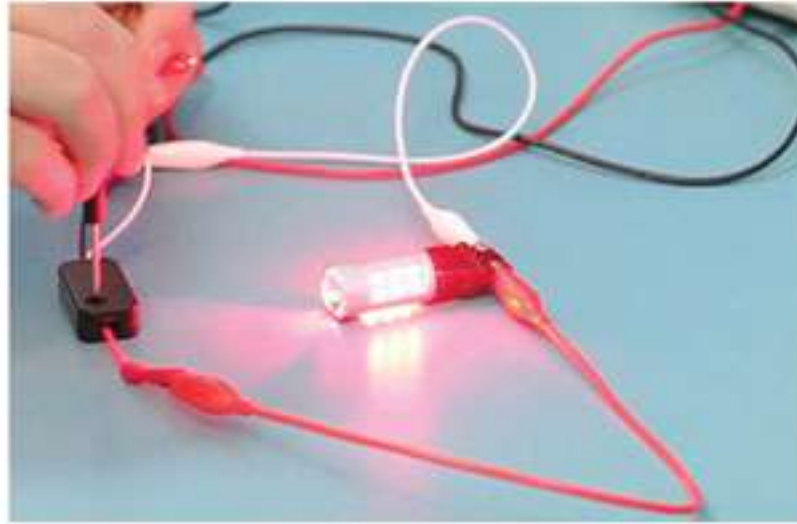
To install the modules, locate the wires you need and connect them using the included terminals. Connect your HIGH signal, such as a turn signal, to the red input wire. Connect your LOW signal, such as a running light, to the white wire. Connect any ground to the black wire. Connect the positive side of your device to the red output wire.

If necessary, you may remove the preinstalled terminals to make connection, if you prefer to solder or connect in a different method. This will not void the warranty. Using an appropriate wire tool, cut just under the terminal and strip back the 22AWG wires as needed.

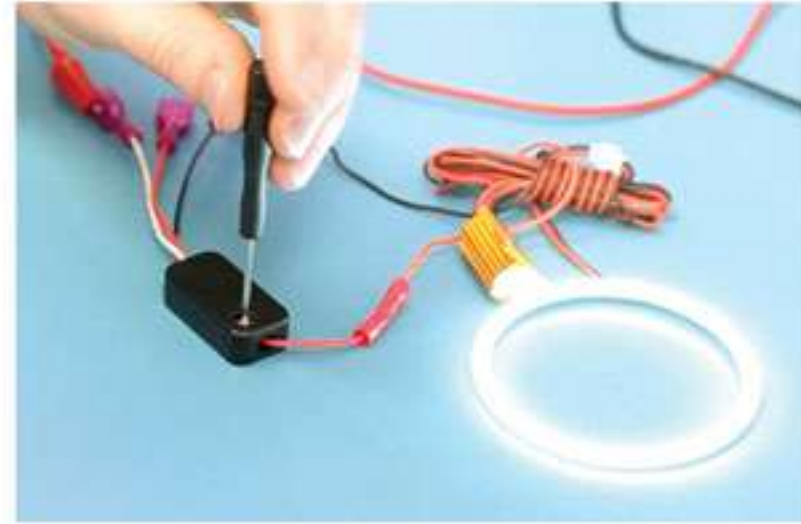
To test function, activate your inputs to ensure everything works as you need it. If it does not work, make sure all connections are secure, and you have a good ground connection. Also check to make sure your wires are correct. All modules are fully tested before shipment.

To operate the modules, simply adjust the dial using the included screwdriver, to adjust the brightness level from 10-100%. The modules are preset to 60% brightness.

EASILY DIM ANY LED COMPONENT!



Works on LED bulbs, rings, and more!



Fully adjustable with included tool

2A LED PWM DIMMER WITH BYPASS (PAIR)

- ▶ Adjust the brightness level from 10%-100%
- ▶ Four-wire installation with included connectors
- ▶ Works with most LED lighting devices
- ▶ Made in USA, three year limited warranty

DIODE DYNAMICS
PERFORMANCE LIGHTING TECHNOLOGY

3 YEAR
WARRANTY



DIODE DYNAMICS

AUTOMOTIVE PWM DIMMER WITH BYPASS

INSTALLATION GUIDE INSIDE

When it comes to quality automotive electrical parts, Diode Dynamics is the brand you can depend on.