

## DK101M - DASH LIGHT DIMMER

### Installation Instructions for – P/no. DK101M, 12/24Vdc module



### GENERAL

The Dash Light Dimmer is designed to follow the voltage from an existing automotive style dimmer circuit and supply a similar voltage out, to power equipment not included in the original manufacturers wiring. This is necessary on systems using a low resistance, high wattage rheostat for the dimmer, as too many lamps on the original dimmer circuit will result in a costly burnt out unit.

Extra illumination lamps are often included as part of any after-market accessories such as radio/CD players, CB radios, etc, and the total wattage of these, combined with the original dash illumination is usually more than the design rating of the OEM dimmer.

Hence the Dash Light Dimmer will save not only costly parts replacement, but more importantly a possible fire in the dashboard.

### FITTING INSTRUCTIONS

1. Locate a convenient mounting place in the instrument panel or under the dash near the fuse panel and mount the Dash Light Dimmer. Screws (3/16" or 5mm), double sided tape, or Silastic are all acceptable. Orientation is not critical.
2. This module can become quite hot during normal operation and requires ventilation space around it for cooling. Do not mount in areas of high ambient temperature.
3. Connect the "+" terminal (Term. No. 2) on the control module to a suitable positive source, via a 5 amp fuse.. This must be live whenever the dash lights are on. Usually this will go to battery positive.
4. Connect the "-" terminal (Term. No. 1) to a good earth or ground connection.
5. Connect terminal no. 5 to your input signal. This will be a parallel connection to the existing wiring from the dimmer to the dash lights.
6. Connect the output terminal (Term's No. 7 or 8) as required to the new lamp circuits. Note: maximum output is 3 Amps at 12/24Vdc, ie: 36 Watts. Refer to the Connections and Wiring Diagram sections.

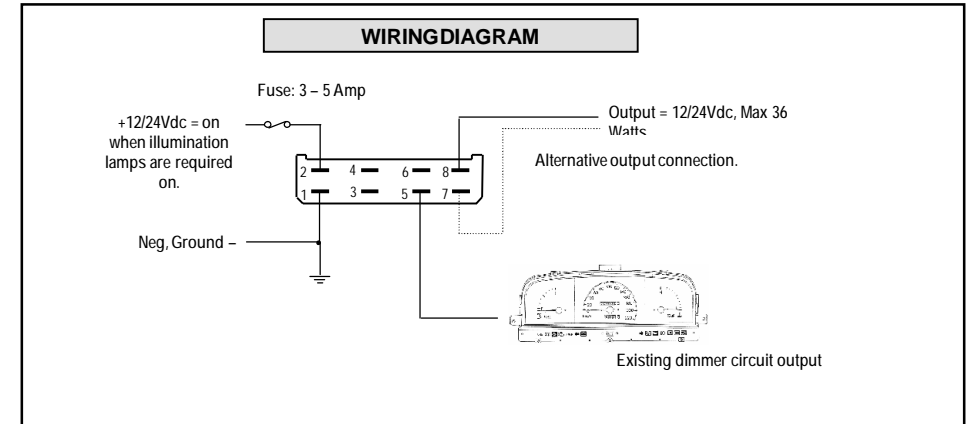
*NOTE: This module is designed as a universal unit to suit as many automotive type applications as possible. However there may be some systems where the input or output signals are not compatible with this unit. The manufacturer is not responsible for incorrect fitting or damage caused by or during the fitting of this module.*

### CONNECTIONS

Terminal connections are as follows...

- Term no. 1 = Negative or Ground, 0Vdc
- Term no. 2 = +12/24Vdc Battery, or positive when dash lights are on.
- Term no. 3, 4 = N/C
- Term no. 5 = Input Signal, variable voltage from existing dimmer circuit.
- Term no. 6 = N/C
- Term no. 7 or 8 = Output Signal, square wave, variable duty cycle (approx 50 – 100%)  
Maximum current 3 Amps at 12/24Vdc

### WIRING DIAGRAM



### SETTING

1. The unit is preset to follow the voltage on the input terminal within an average +/- 2 Vdc.
2. No setting is necessary.
3. This unit is designed for 12/24Vdc negative ground systems.
4. A modification is available to use this unit as a stand alone dimmer control. The modification allows the unit to be used for independently controlling up to a maximum of 36 Watts with a separate potentiometer. No original dimmer circuit is required.
5. This unit is usually connected to manufacturers wiring harnesses, where the plug and terminals are already supplied.

### SPECIFICATIONS

- Dimensions: 68 x 30 x 73mm deep, overall box dimensions.
- Mounting: Hole centres...83mm, mounted height...35mm, box with plug & wiring allow min 110mm.
- Voltage: 12/24 Vdc negative ground.
- Current: 10mA at no output – 45mA + Load at full output.
- Output rating: Square wave at ~ 50 – 100% duty cycle, Maximum 36Watts at 12/24 Vdc.