

PICflicker flickering light unit

Instructions for use

Features

1. Four channels independently flicker at random.
2. Each channel may be set to candle or fire mode.
3. Each channel of the unit can deliver up to 1A - the total rating for the unit is 2A. Most bulbs take about 50mA - this means that the unit can supply about 40 typical bulbs in total (up to 20 on a single channel). Some chandeliers are fitted with bi-pin candle bulbs that take 30mA so up to 30 of these bulbs could be connected to one channel.

Contents

- Flickering light unit
- Spare 2A fuse
- (These) Instructions

Installation

The unit should be fixed in a convenient position for wiring to the lights. The connections for the lights are on the long terminal block. Lights should be connected to the terminals for each channel. There is a common return (see figure 1).

A suitable power supply must be connected to the socket on the unit. The power supply must have a regulated DC output of 12V with sufficient power to operate the total number of lights installed and must be fitted with a suitable coaxial connector with the centre positive. A suitable 2A power supply is available from Malcolm's Miniatures. Alternatively a power supply with separate wires may be connected to the 2 way terminal block.

The 2 way terminal block may also be used to feed power to other (non-flickering) lights, ie to share the power supply.

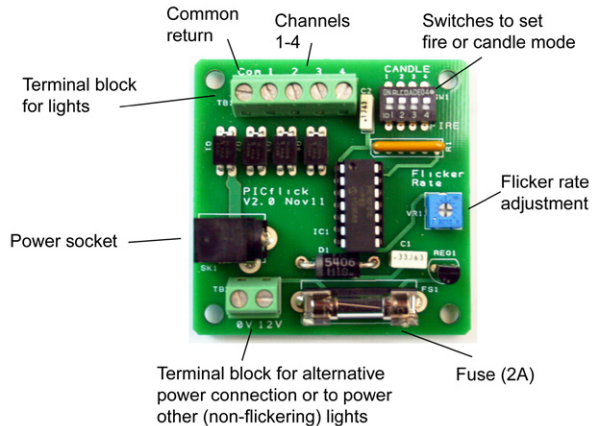
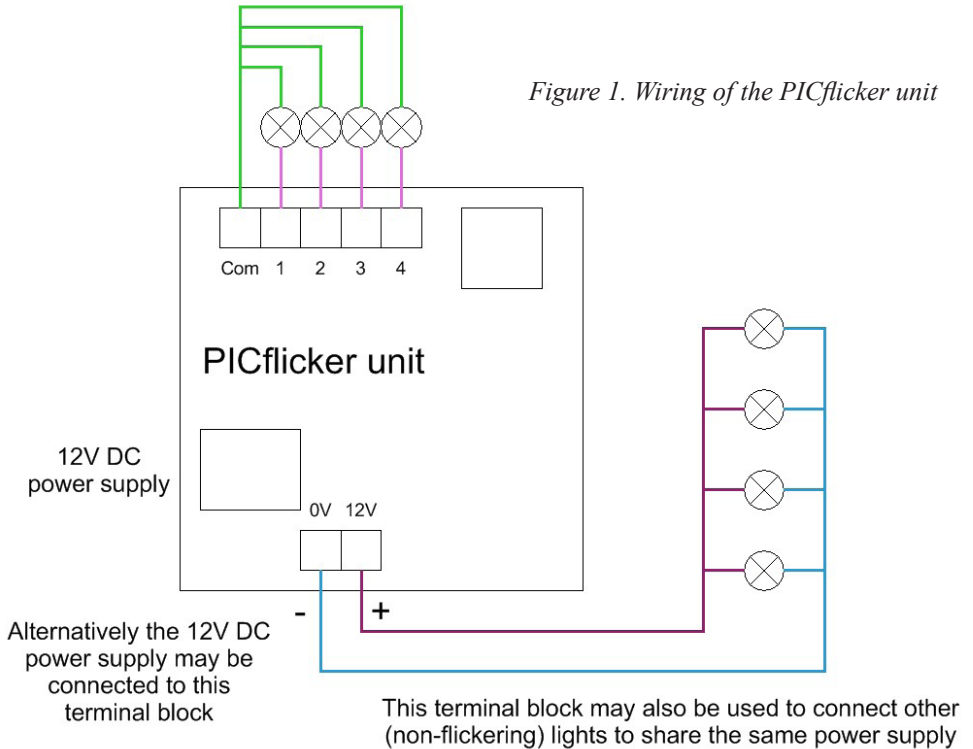


Figure 1. Wiring of the PICflicker unit



Operation

Each channel may be set to candle or fire mode using the small switches to the right of the terminal block - the switches can be operated using a ball point pen or small screwdriver

In candle mode the lights continually flash but randomly the light is kept on or off for a cycle - this gives the effect of a flickering flame that is occasionally affected by a draught. In fire mode the light is on for most of the time but goes off at random - this gives the effect of a pulsing flame.

Because each channel flickers independently candles in the same room will flicker differently if wired to different channels. A very good fire effect can be achieved by fitting two bulbs in the fire connected to different channels.

The flicker rate can be adjusted using the preset control on the right of the unit.

The PICflicker is guaranteed against defects in manufacture for 1 year from purchase.