

Universal Connector PCB

For Routemex Signal Kits
To enable easy removal of
signals on portable layouts.

Suitable for 1 - 4 aspect
signals

12V DC

Contents:

PCB
Push fit terminal block
4 x fixing screws
4 x Nylon stand-offs
5 off Bootlace ferrules

www.routemex.com

One connector board is required for each signal kit - do not connect more than one signal as you will damage the LEDs

Soldering Skills required to complete this kit

This PCB is designed for Common Negative (Common Cathode). To use in Common Positive (Common Anode) mode simply reverse the supply connections.

Solder a piece of plain wire across terminals F1 - or use a re-settable fuse if preferred.

Solder the resistors from the signal kit onto the PCB having regard to the the wiring diagram supplied with each kit.

On 4 aspect kits solder a diode between the two yellow aspect resistors as shown

Solder the 12V DC supply wires to the PCB as shown

Solder the terminal block to the PCB

Crimp a ferrule to the end of each signal wire

Using the fixing screws fit the PCB under the baseboard - a 2mm pilot hole is advised.

Crimp a ferrule to the end of each signal wire and insert into terminal block.

SAFETY

Contains small parts - Unsuitable for children under 14

Operation is by 12V DC

DO NOT, under any circumstances connect LEDs without the specified resistor.

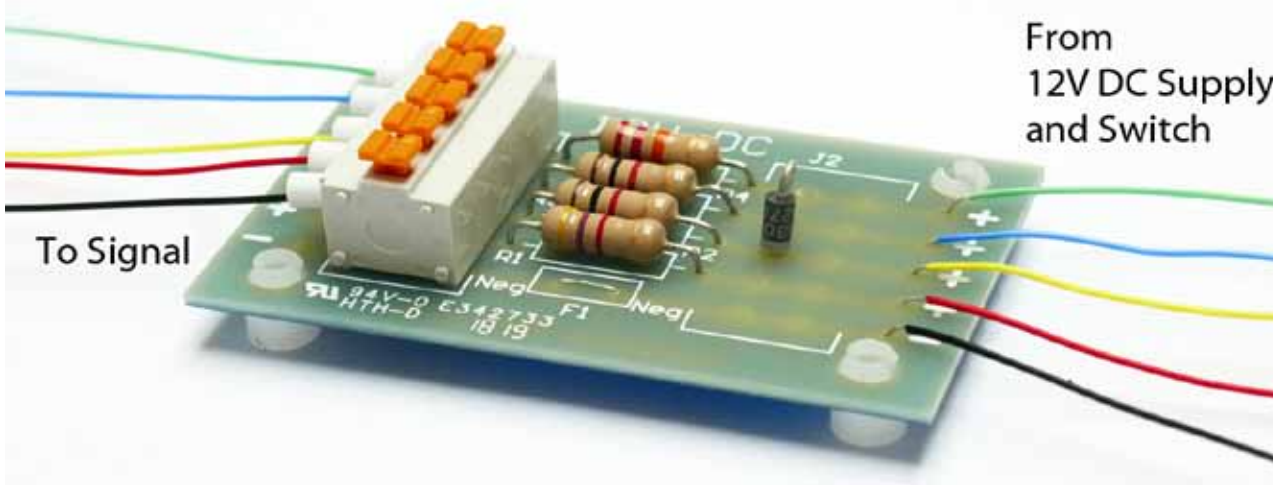
This kit uses resistors rated at 1 watt. Do not use a resistor with a lower power rating as it may overheat.

Please ensure you use the correct resistors for each kit otherwise the LED's will fail. Ensure ventilation around the resistors.

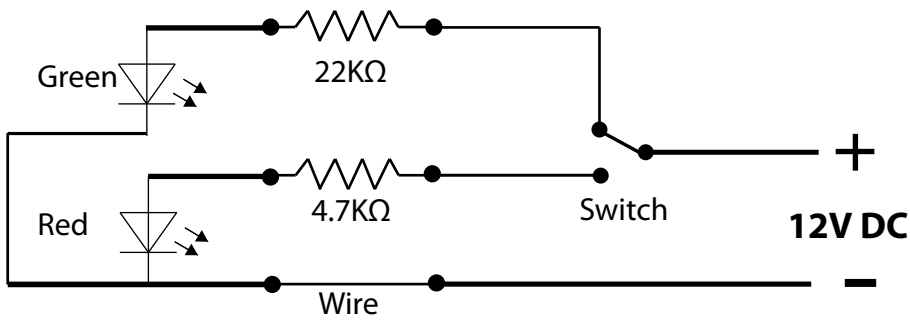
DO NOT, under any circumstances use batteries to test LEDs without a resistor – The application of batteries of even low voltage can cause the LED to explode and cause injury.

DO NOT Stare directly into an LED

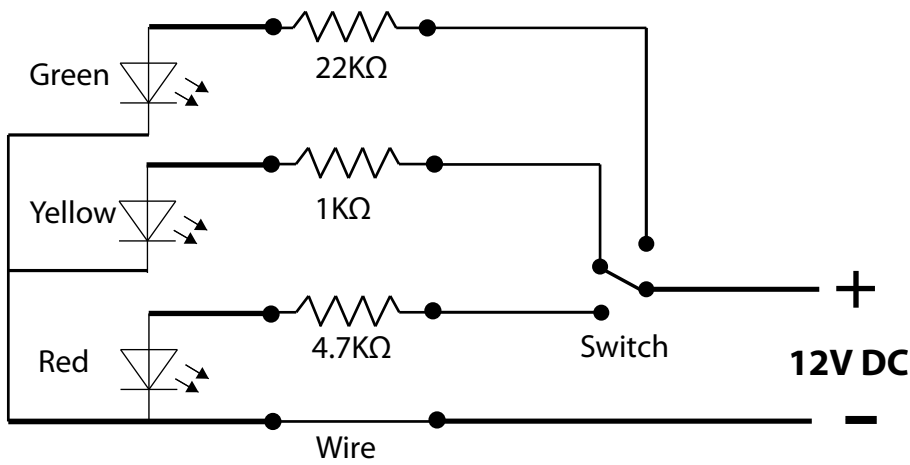
4 aspect components fitted to PCB



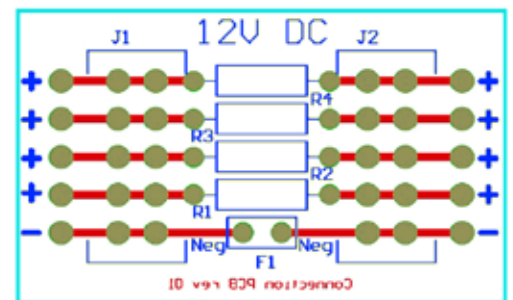
2 Aspect Red Green



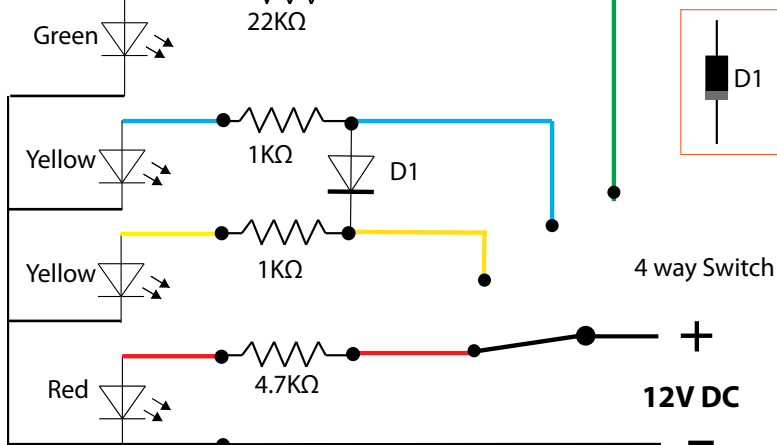
3 Aspect Red Yellow Green



Connections (on underside)



4 aspect Red Yellow Yellow Green



This schematic shows the switching sequence not the order of the lights in the signal
Lights will display Green - Double Yellow- Single Yellow- Red