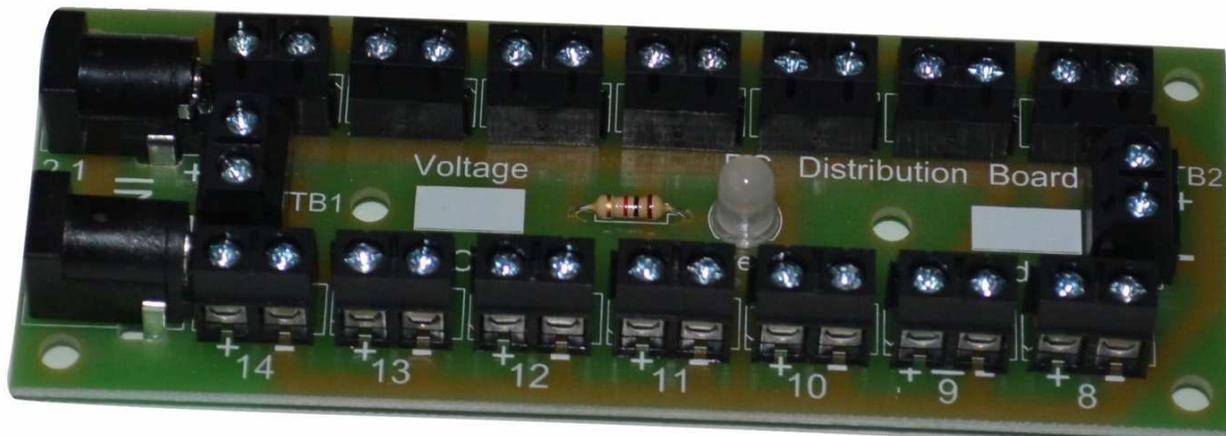


CN166 Power Distribution Board

The CN166 basic unit has 14 Positive and Negative Terminals (**Especially for those who don't like to solder**). The input power can be connected either by wires, a 2.1mm DC plug or a 2.5mm DC plug, the input terminal will handle up to 15 Amps, the board can be used for DC voltages up to 24vDC & DCC. (The board can be used with higher voltages, however the resistor should be removed to disable the LED) The LED will show Green if the Polarity is correct, Red if the Polarity is reversed by mistake or Orange if you are running a DCC system. Write on patch for board Voltage and Board No. There are 6 Fixing holes available.



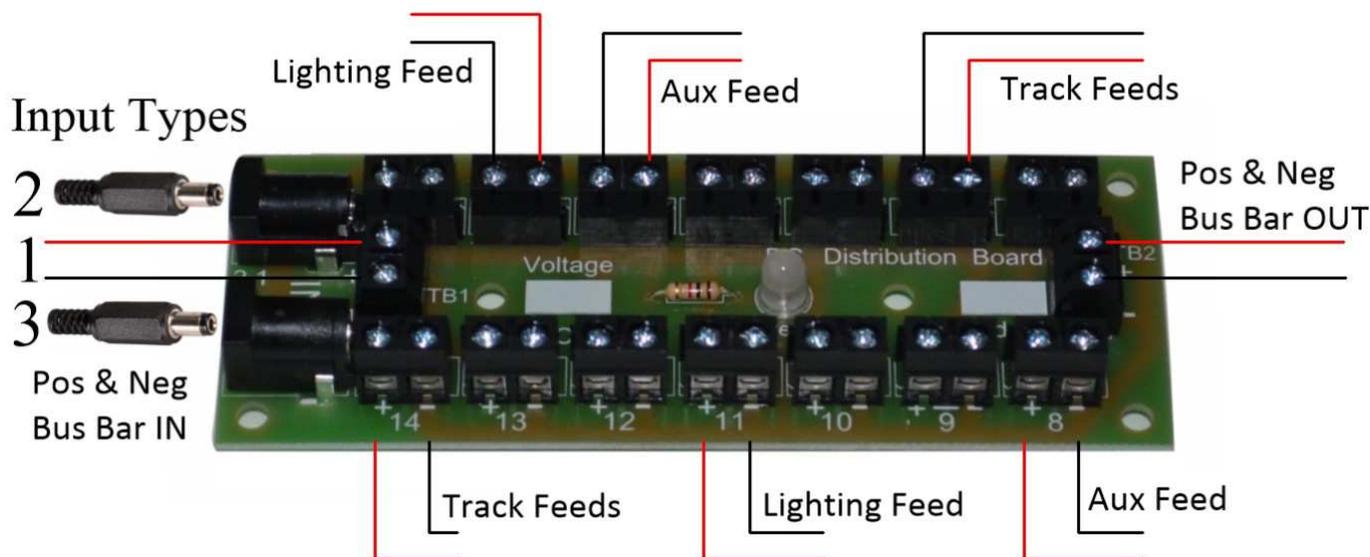
The next drawing shows how the unit can be powered from three types of supply.

1 Conventional wires from an auxiliary power source, 2 A Power pack with a 2.1mm plug, 3 A Power pack with a 2.5mm plug.

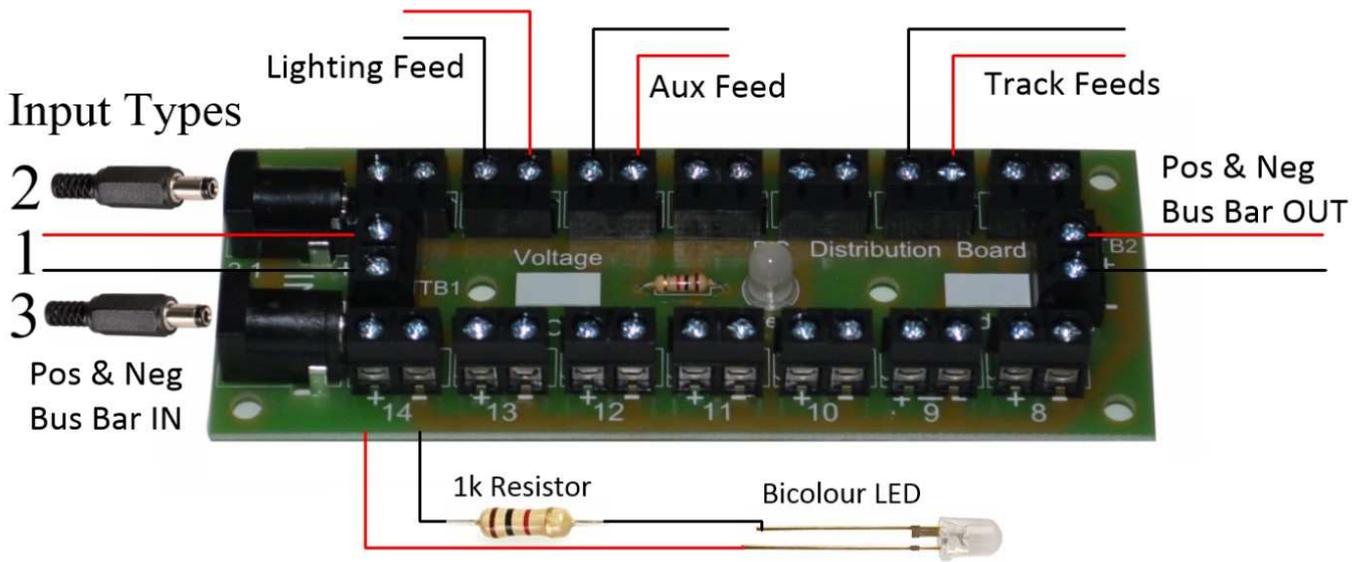
The outputs are Positive & negative for each 2 way terminal block of which there are 14 individual outputs.

These are ideal for powering Street Lights, House Lights, Building Lights, and so on.

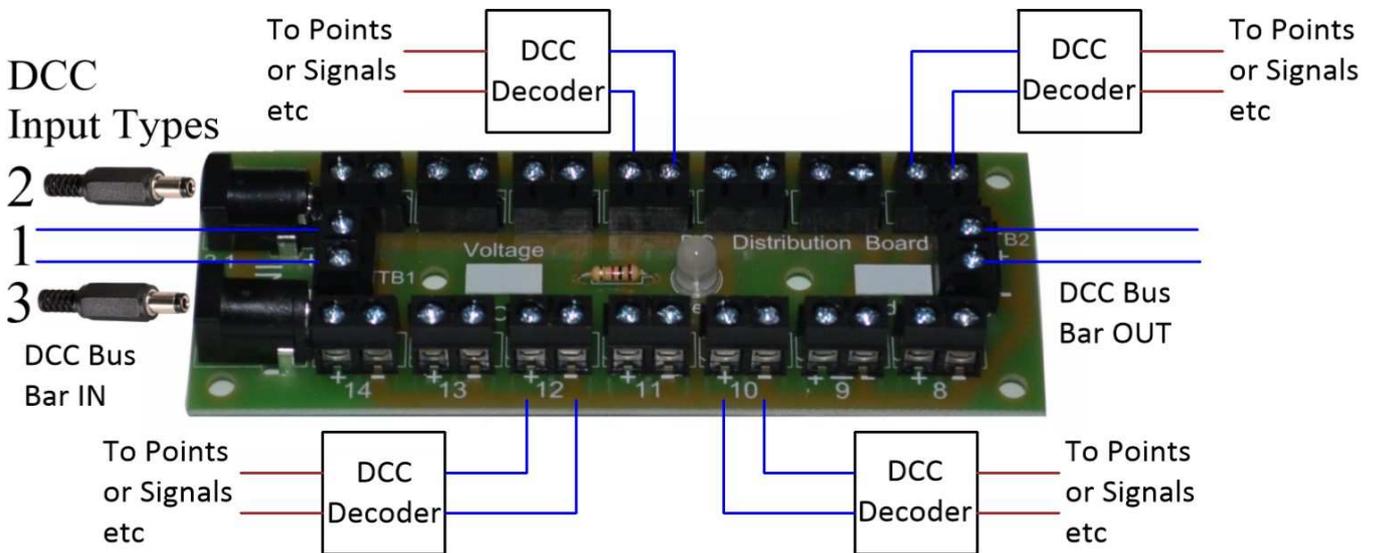
The board will accept any DC voltage or DCC voltage.



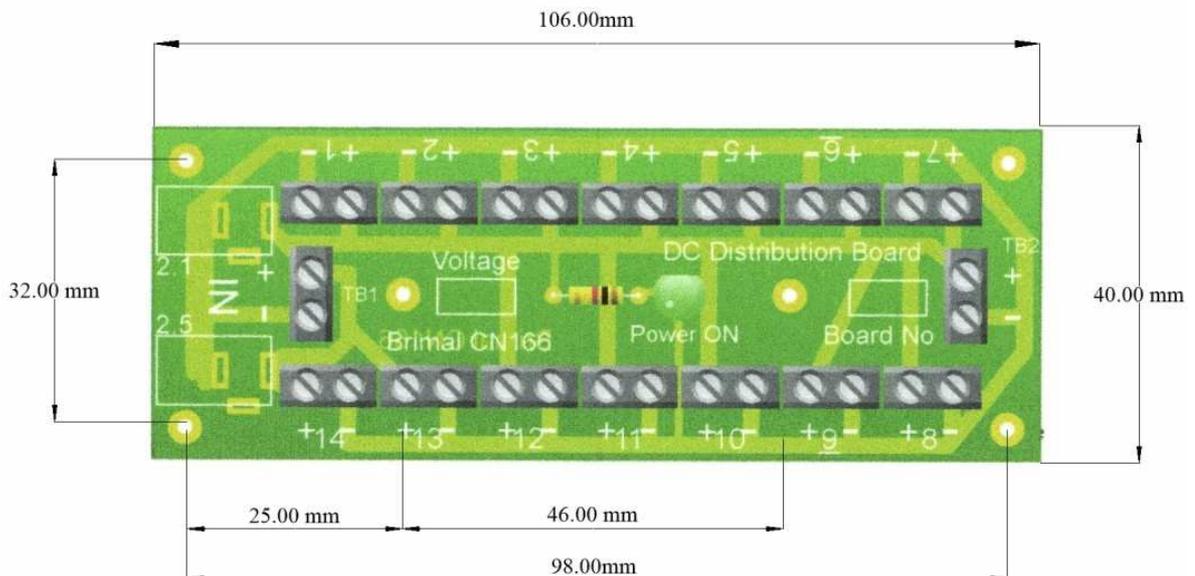
Remote Indication. In most cases this Distribution board is going to be on the underside of the baseboard. This means that you are not going to see the ON LED. If you want you can install a remote indicator on your panel. The Positive (RED) feed to the short pin on the LED, the negative feed through a dropping resistor to the long pin. The circuit below uses a Bi-coloured LED to give the three indications as mentioned above. You can if you want cut the Resistor in the centre of the board out to switch off the LED on the board, either way this circuit will work.



DCC Connection. If using it as a DCC Bus Bar you could have up to 18 decoders off the one Distribution Board. The LED will be Orange with DCC power, so will the remote indicator if you use the Bi-coloured LED wired as above.



The fixing holes are 3.5mm diameter, and there are 6 on each board.



Board No:	Board Voltage:
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Input	Colour	Description	Description	Colour	Output
+ Positive In					+ Positive out
- Negative In					- Negative out
2.1mm Power Pack Plug					
2.5mm Power Pack Plug					
Terminal No	Colour	Description	Description	Colour	Terminal No
1					8
2					9
3					10
4					11
5					12
6					13
7					14