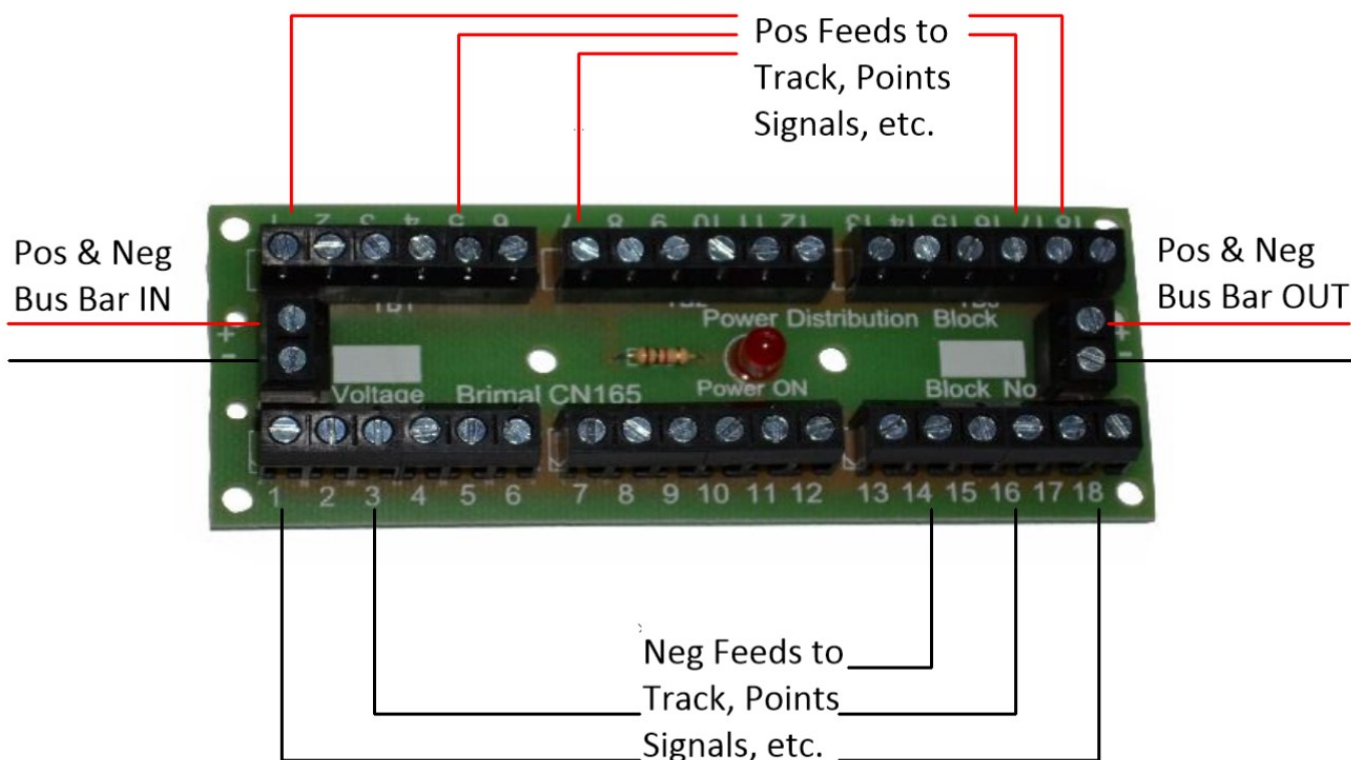# CN165 Power Distribution Board

The CN165 basic unit has 18 Positive and 18 Negative Terminals (**Especially for those who don't like to solder**). 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 resister 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 and cable tie holes also available for Input cables.

The CN165 Screw Terminal Board.

The Bus Bar comes in on the left and goes out on the right, with 18 spur off points now available, to feed all the equipment in that area of your Layout.

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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.
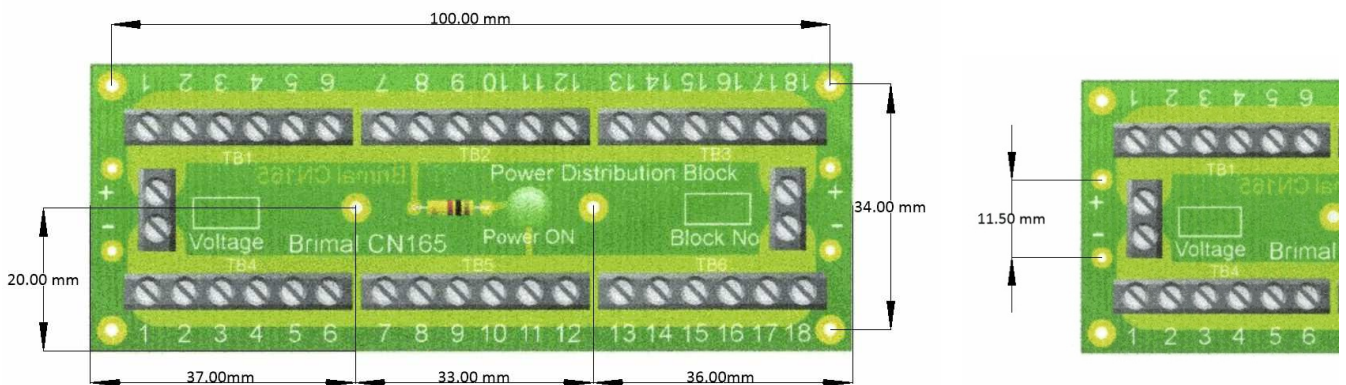
Pos & Neg Bus Bar IN

Pos & Neg Bus Bar OUT

1k Resistor
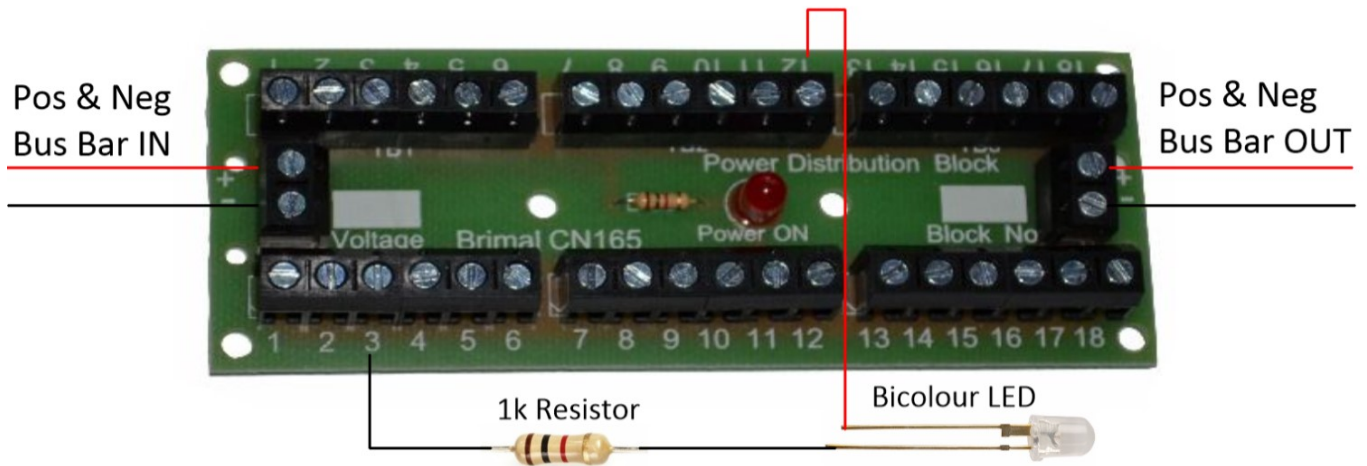
Bicolour LED

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.

DCC In

DCC Out

To Points or Signals etc

DCC Decoder

DCC Decoder

To Points or Signals etc
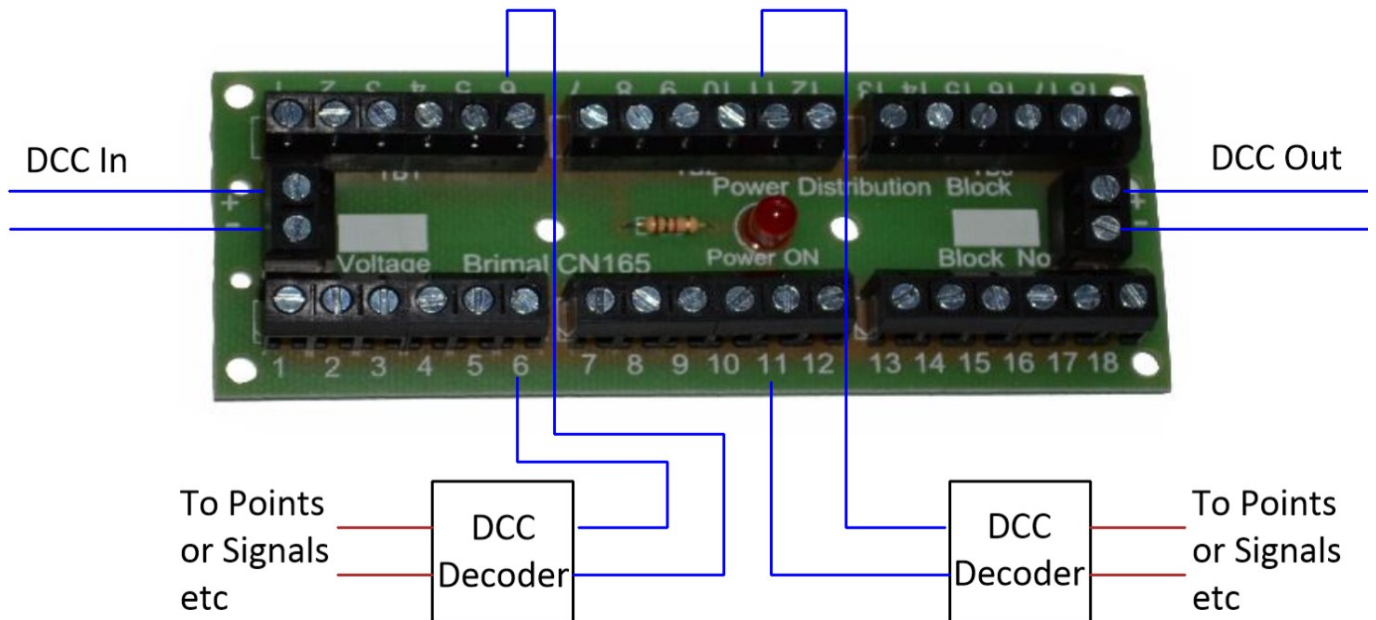
Fixing Template
The fixing holes are 3.5mm diameter, and there are 6 on each board.

100.00 mm

34.00 mm

11.50 mm

20.00 mm

37.00mm   33.00 mm   36.00mm

The two holes at each end are for cable ties to secure the input cable
The cable ties to use are CB870 or CB871, they are 2.4mm wide And 100mm long.

Board No:				Board Voltage:		

Input	Colour	Description	Description	Colour	Output
+ Positive In					+ Positive out
- Negative In					- Negative out
Terminal No Positive Side	Colour	Description	Description	Colour	Terminal No Negative Side
1					1
2					2
3					3
4					4
5					5
6					6
7					7
8					8
9					9
10					10
11					11
12					12
13					13
14					14
15					15
16					16
17					17
18					18