

Installation Notes

- Up to five sensors are connected to the data bus on the WebBrick Controller within the following limits:
- Cable: Cat 5E cable is recommended for temperature sensor connections. WebBrick Systems supply temperature sensors with 2m Cat 5E pre-attached but it is recommended to cut these as short as practically possible before connecting to the bus, see overleaf for preferred connection scheme.
- The connection scheme shown in fig.1 should be followed when using more than one temperature sensor to a WebBrick Controller. This scheme makes sure there are no impedance mismatches by emulating a single run of cable.
- Bus Length: We recommend a maximum bus length of 90m for a single sensor and 70m for multiple sensors. The 90m limit includes all the cable runs to the punch-down panel.
- Unused cores: We recommend that unused cores are connected to ground.
- It will be necessary to decide which of the temperature sensors is the last one in the connection sequence and ensure that the white/orange is left unconnected, see fig.1
- The sensors must be connected to the WebBrick Controller whilst it is powered down. Each one is recognised at power-up and their unique serial numbers logged in to the WebBrick Controller's memory. Further sensors can be added to the system provided it is powered down when doing so.
- The order in which the sensors are recognised by the system is independent of the physical position on the bus.

Features

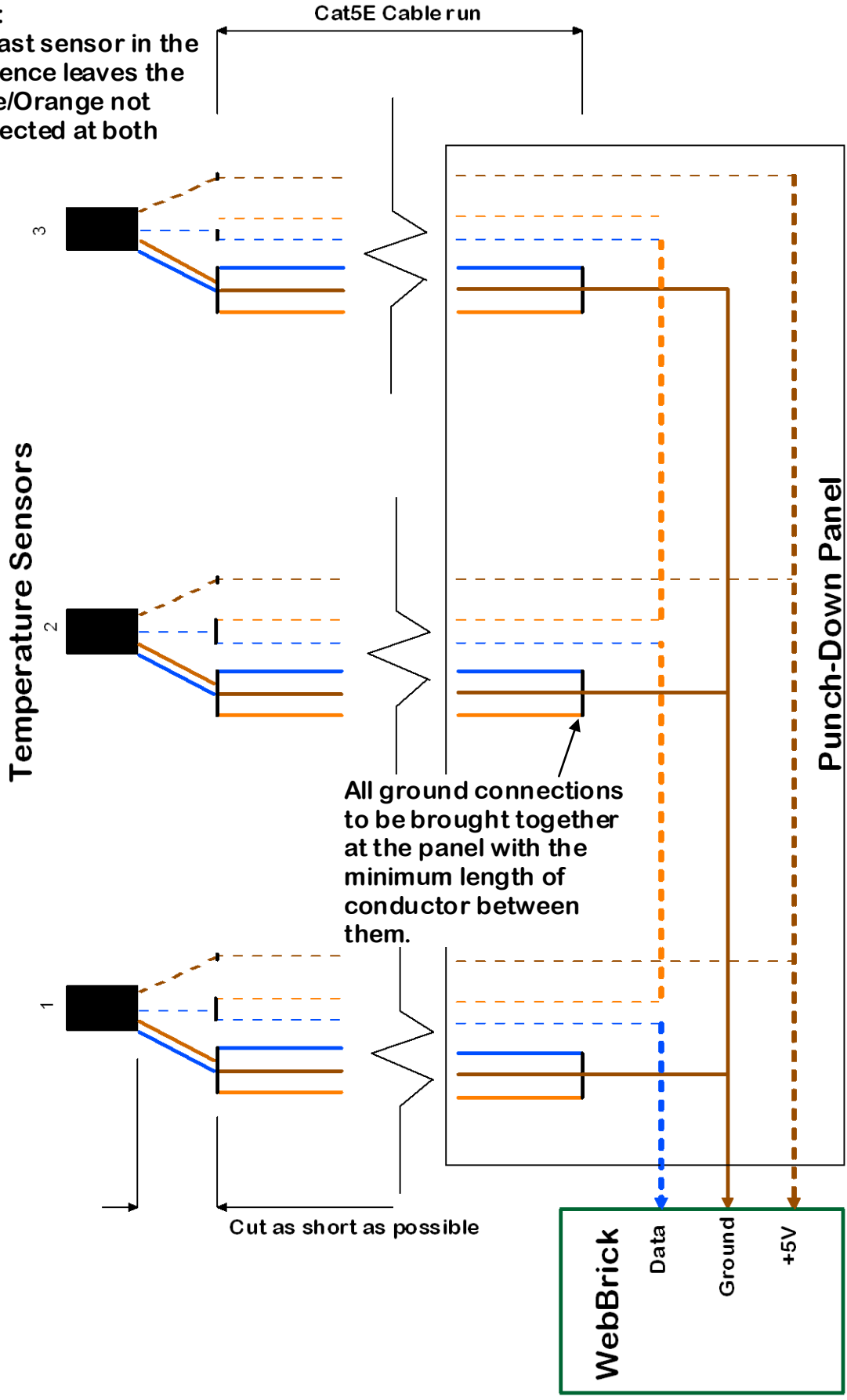
- Digital temperature sensor for loss-free operation
- Connect up to 5 directly to a WebBrick Controller™
- Sensor Accuracy: Within 0.5 Deg C.
- Sensor Resolution: Is 0.125 Deg C, although this is less than the accuracy of the temperature sensor it is very useful for determination of whether a temperature is rising or falling



Connections

- Brown-White: +5V
- Blue-White: Data
- Blue: Ground
- Brown: Ground, this core is not connected to the temperature sensor, grounding this core satisfies the EMC conditions of CE marking.

Note:
The last sensor in the sequence leaves the White/Orange not connected at both ends



Temperature Sensor Cabling Scheme

Fig 1.