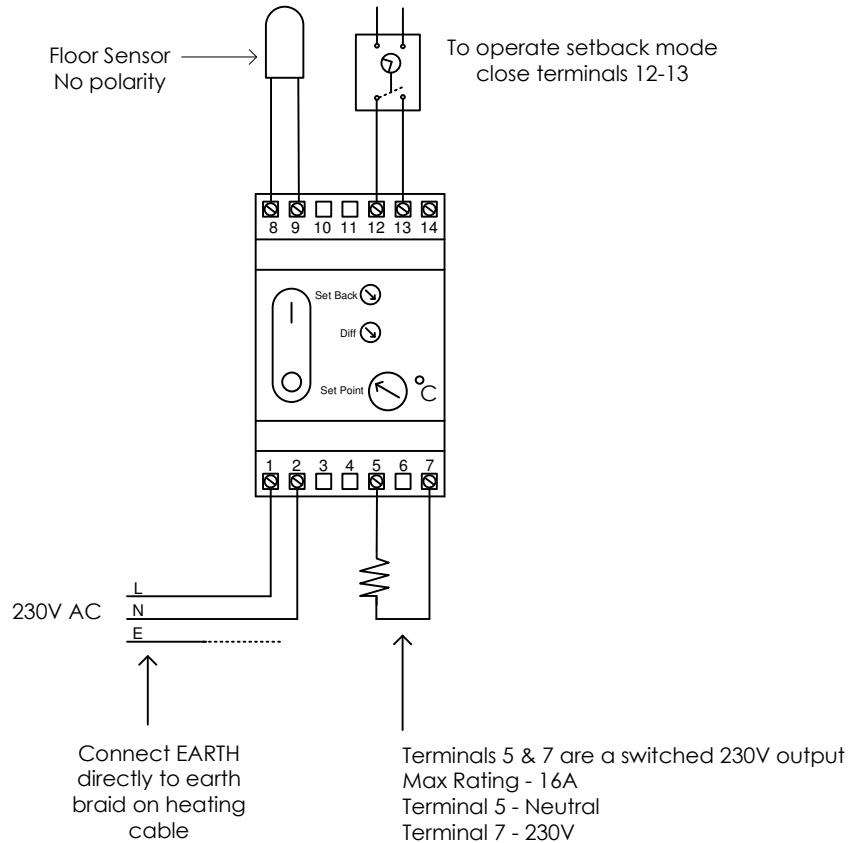


# WIRING OF ETN THERMOSTAT

Heating load less than 3600W



## ETN & C-BUS CONTROL

The ETN Thermostat is suitable for din type switchboard mounting. The connections to the thermostat are:-

### Terminal 1 & 2

Terminal 1 ~ 230V L  
Terminal 2 ~ 230V N

### Terminal 5 & 7

The heater load is normally connected directly to these terminals.

Terminal 5 is the 230V Neutral and terminal 7 is the 230V Live.

If the heater load is greater than 3600 Watts or 16A these terminals can be connected to the contactor coil to drive a contactor.

### Terminal 8 & 9

Sensor input connections. These do not have a polarity.

### Terminal 12, 13 & 14

These connections are used to drive the thermostat into setback mode. They are voltage free contacts so when closed the setback mode operates. For single thermostat operation connect between 12 & 13. For multiple thermostat operation from the one timeclock connect the 1<sup>st</sup> thermostat across 12 & 13 and loop across to the rest between terminals 13 & 14.

### C-Bus Control

To turn the floor heating On/Off (not daily control) the C-Bus can be used to switch the power supply to the ETN thermostat by breaking the 230V power supply to terminals 1 & 2.

For daily control it is best to close terminals 12 & 13 which will set the thermostat into 'Setback Mode' (i.e. a lower temperature).

The C-Bus will be programmed for the 'Setback Mode' times.

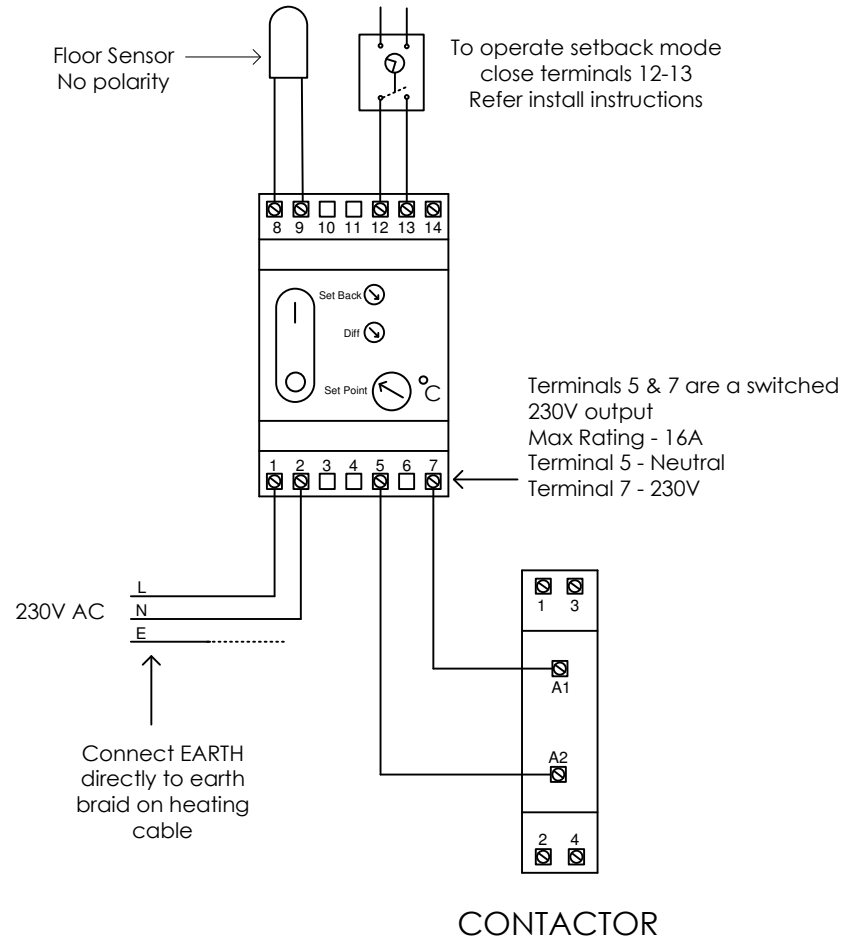
### Cable Extension

You can extend the sensor cable with a TWIN wire – Max Length 100m or similar.

NOTE: Earth screen of all heating cables is to be connected to EARTH

# WIRING OF ETN THERMOSTAT AND CONTACTOR

Where the floor heating load exceeds 3400W a contactor needs to be installed



## ETN & C-BUS CONTROL

The ETN Thermostat is suitable for din type switchboard mounting. The connections to the thermostat are:-

### Terminal 1 & 2

Terminal 1 ~ 230V L / Terminal 2 ~ 230V N

### Terminal 5 & 7

Switched 230V output. The heater load is normally connected directly to these terminals.

Terminal 5 is the 230V Neutral and terminal 7 is the 230V Live.

If the heater load is greater than 3600 Watts or 16A these terminals can be connected to the contactor coil to drive a contactor.

### Terminal 8 & 9

Sensor input connections. These do not have a polarity.

### Terminal 12, 13 & 14

These connections are used to drive the thermostat into setback mode. They are voltage free contacts so when closed the setback mode operates. For single thermostat operation connect between 12 & 13. For multiple thermostat operation from the one timeclock connect the 1<sup>st</sup> thermostat across 12 & 13 and loop across to the rest between terminals 13 & 14.

### C-Bus Control

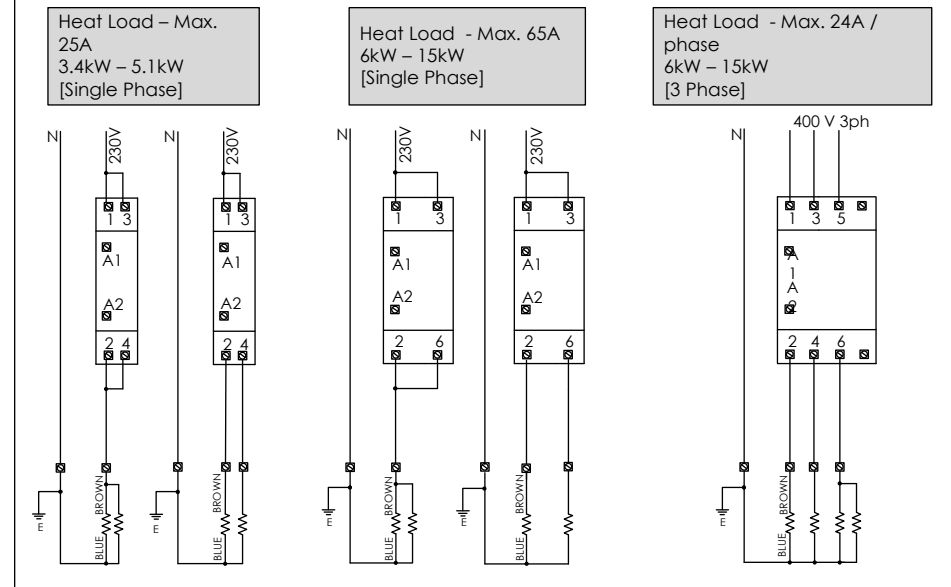
To turn the floor heating On/Off (not daily control) the C-Bus can be used to switch the power supply to the ETN thermostat by breaking the 230V power supply to terminals 1 & 2.

For daily control it is best to close terminals 12 & 13 which will set the thermostat into 'Setback Mode' (i.e. a lower temperature). The C-Bus will be programmed for the 'Setback Mode' times.

### Cable Extension

You can extend the sensor cable with a TWIN wire – Max Length 100m or similar.

## CONTACTOR WIRING DETAILS



NOTE: Earth screen of all heating cables is to be connected to EARTH