ecoStat 3 PRE5000EC3 Series

Intelligent thermostats

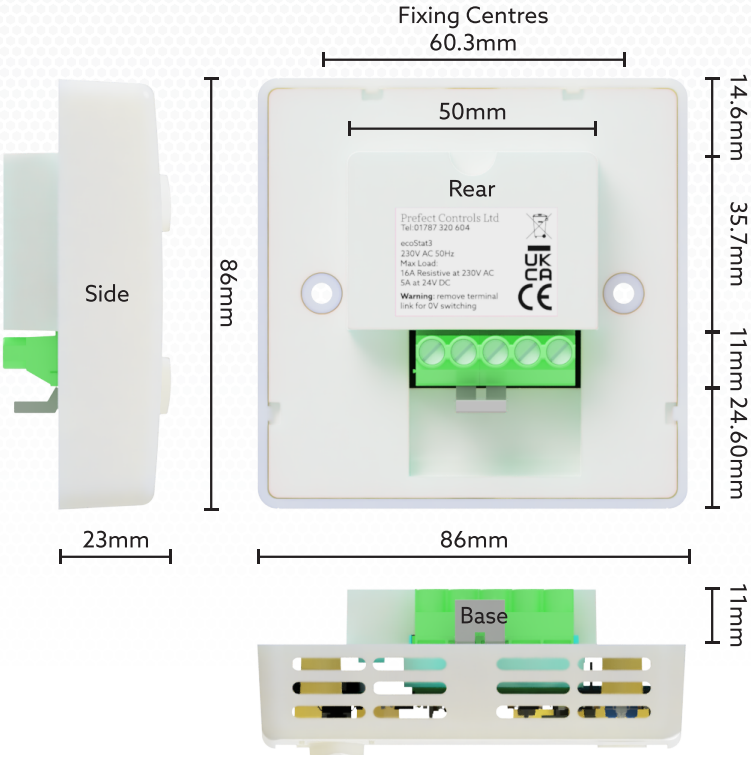
Wiring diagram - Volt Free Contact Controlled Boiler

Prefect

Cleverly simple control of energy.

PRE5203EC3 MODEL WITH MICROWAVE PRESENCE/ABSENCE SENSOR

PRE5003EC3 MODEL



Specification:

SIZE: Standard single gang plate size. Requires a 30mm deep surface pattress or 25mm or greater sunken box. When mounting into a sunken wall box or metal clad box remove the top and bottom mounting lugs of the box.

SUPPLY VOLTAGE: 216-253V AC at 50Hz.

LOAD: 16A Resistive at 230V AC, 5A at 24V DC not suitable for use with quartz heaters. No controls heaters only

ELECTRICAL CONNECTIONS: Live in (L), Neutral (N), Common (COM), Normally open/live out (Swout), 216-253V AC 50Hz Boost Trigger (TRIG).

TERMINAL CAPACITY: 6mm^2 Maximum cable CSA, internal terminal size 2.9mm x 4mm.

DETECTION MODES:
PRE5203EC3 model only - Absence, Presence, disabled selectable.

DETECTION RANGE:
PRE5203EC3 model only -
5m maxmium (theoretical)

CONFORMANCE:
EMC-2004/108/EC LVD-2006/95/EC
PRE5203EC3 model only -
RED 2014/35/EU, RER 2017.

IP RATING: IP3X

OPERATING ENVIRONMENT:
0-40°C, 20-90% RH non-condensing

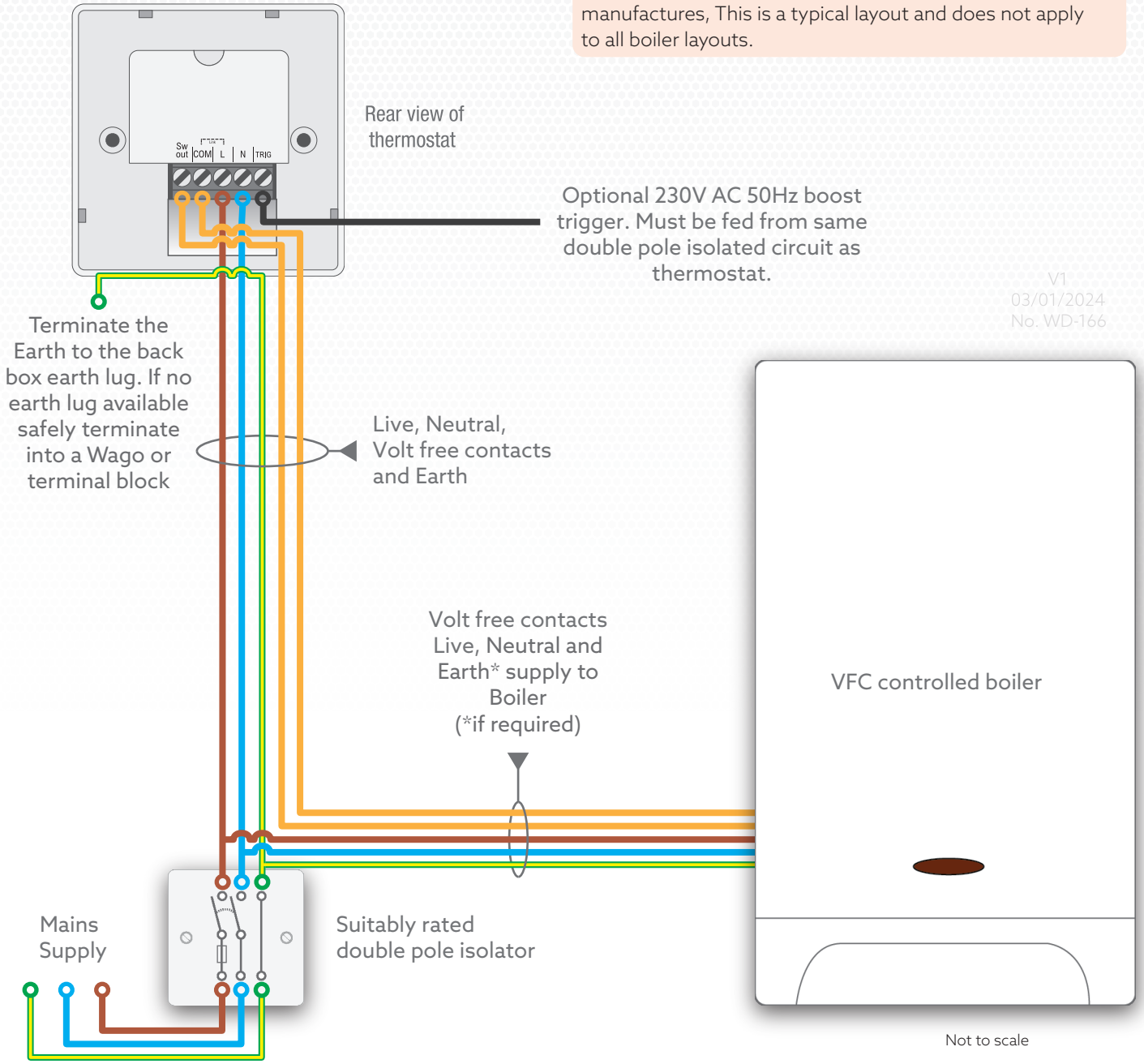
Due to our policy of continuous improvement, we reserve the right to change specifications without notice.
All information was correct at time of when this product file was produced - February 2024

Prefect Controls Limited, Unit 2, Church Field Business Park, Church Field Road, Sudbury CO10 2YF
01787 320604 | mail@prefectcontrols.com | prefectcontrols.com

Prefect
Cleverly simple control of energy.

WIRING

Volt Free Contact controlled boiler

1. All wiring works should be completed by a competent person/s. Isolate the appropriate circuit that the unit is to be supplied from. Perform safe isolation procedure to ensure the circuit is completely isolated. Ensure the supply has been locked in the off position. Always ensure safe working practices.
2. Make any circuit adjustments required in accordance with current regulations.
3. If the trigger terminal is to be used ensure the trigger supply is fed from the same circuit as the unit supply, to conform with current regulations.
4. Terminate the Live and Neutral supply to the unit. Ensure the supplied mains link is **REMOVED.**
5. Terminate the loads output contact cable to the common (COM) terminal. Terminate the load return cable to the normally open terminal (Sw out).
6. Recheck all terminal connections and fit the unit to the back box ensuring cables are not in a position to be damaged.
7. Re-energise the circuit. Press the UP button twice to enable a 2 minute test cycle.

Note: Connection methods differ between boiler manufactures, This is a typical layout and does not apply to all boiler layouts.