6 Wiring Diagrams – Boiler Receiver Unit

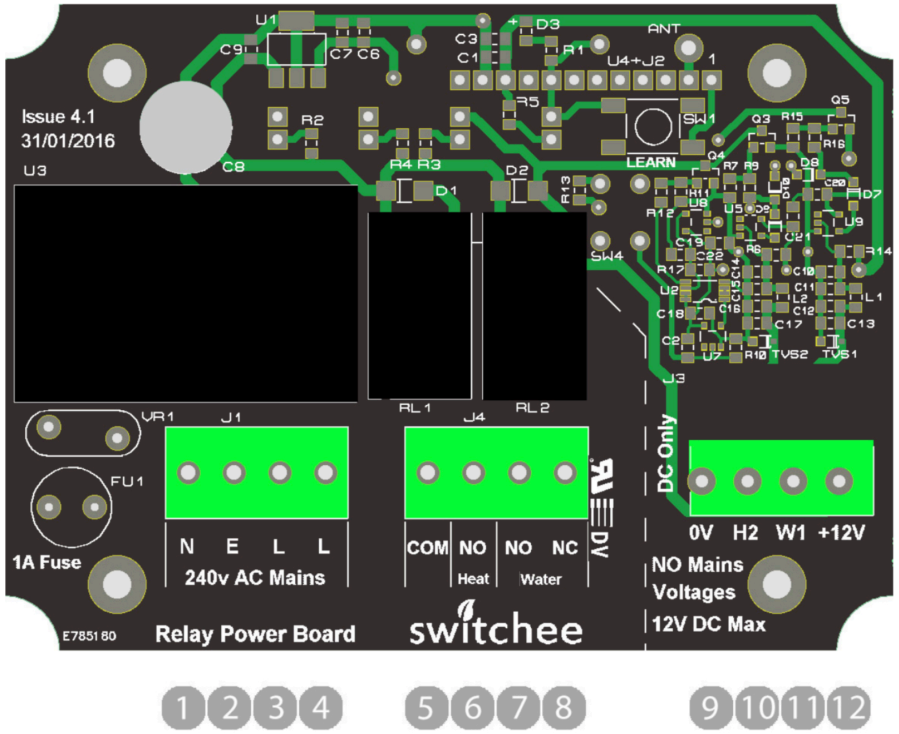


Fig 1: Boiler Receiver Unit Connectors

240V Live and Neutral input power:

1: Neutral (N)
2: Earth (E)
3: Live (L)
4: Live (L)

All suitable for 0.5 – 3mm^2 conductors

Heating and Hot Water:

5: Common (COM)
6: Heating – Call for Heating (NO)
7: Water – Call for Water (NO)
8: Water – Call for Water satisfied (NC) (Optional)

All suitable for 0.5 – 3mm^2 conductors

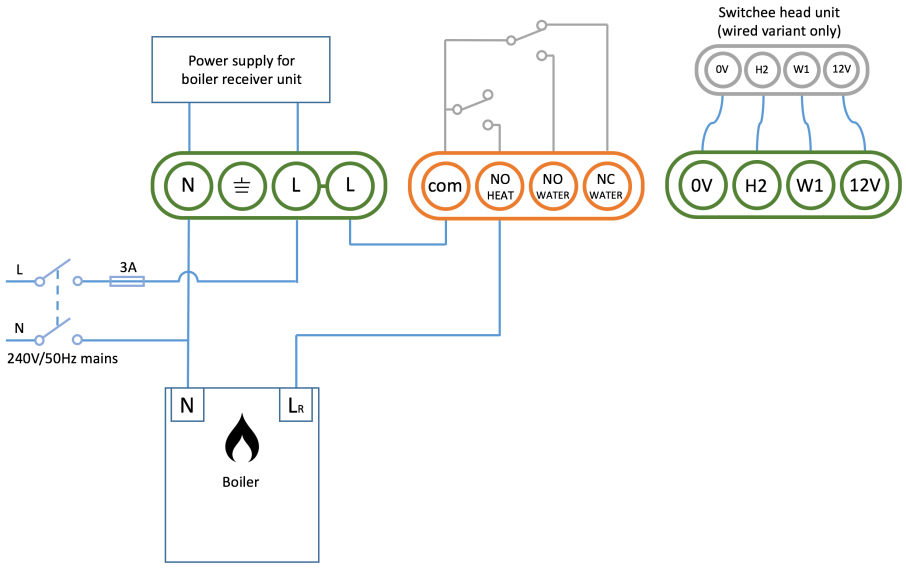
DC power and control to Switchee unit:

9: 0V power output to Switchee
10: Call for heat from Switchee (H2)
11: Call for water from Switchee (W1)
12: +12V power output to Switchee

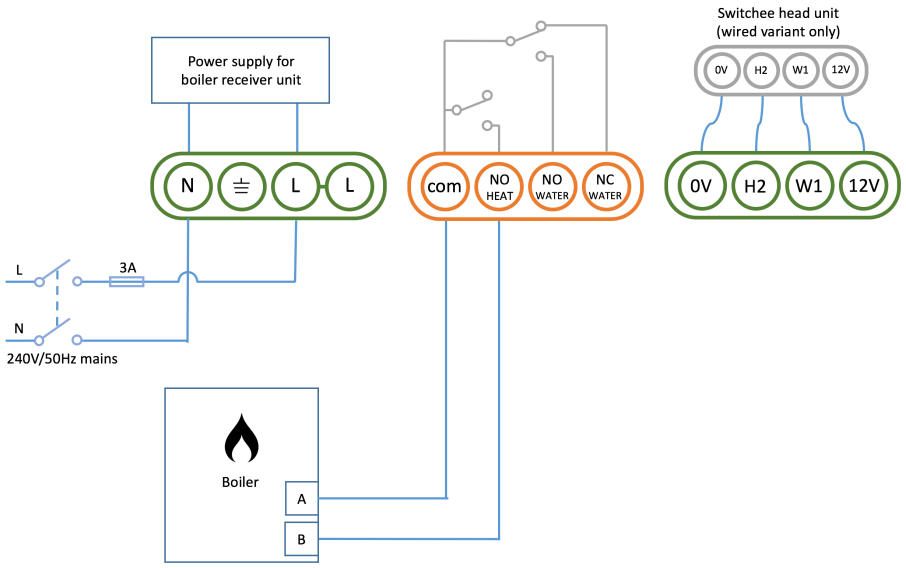
All suitable for 0.5 – 1.5mm^2 conductors

7 Wiring Diagrams – Heating systems

240V COMBI BOILER

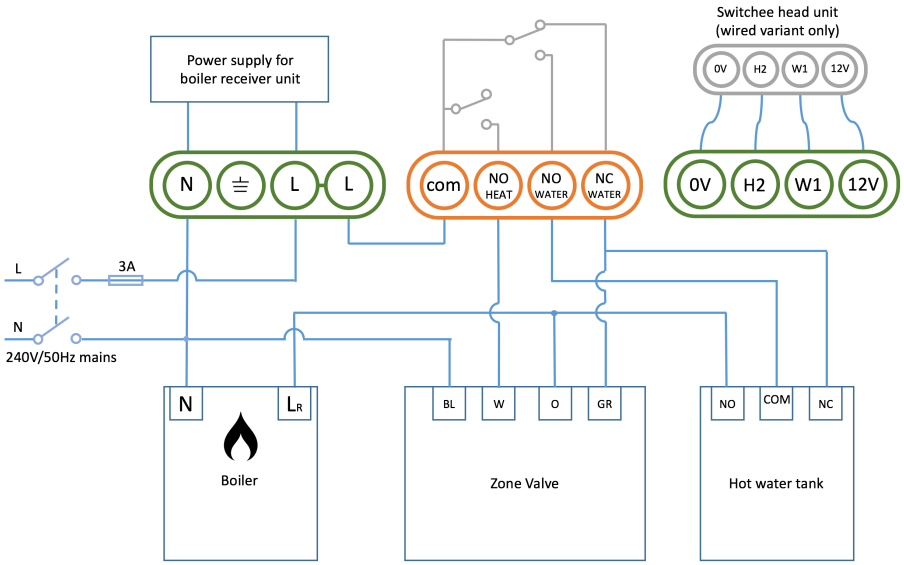


LOW VOLTAGE COMBI BOILER

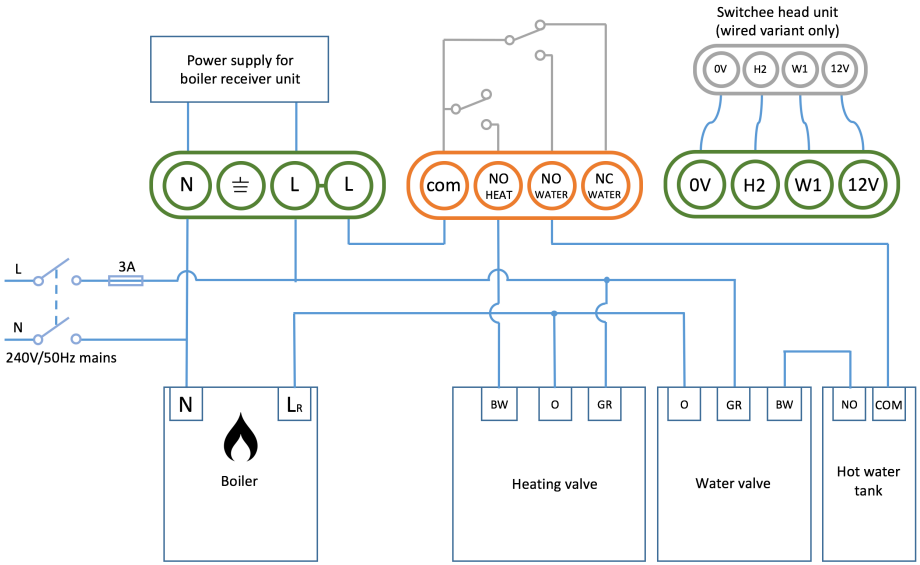


switchee

Y - PLAN

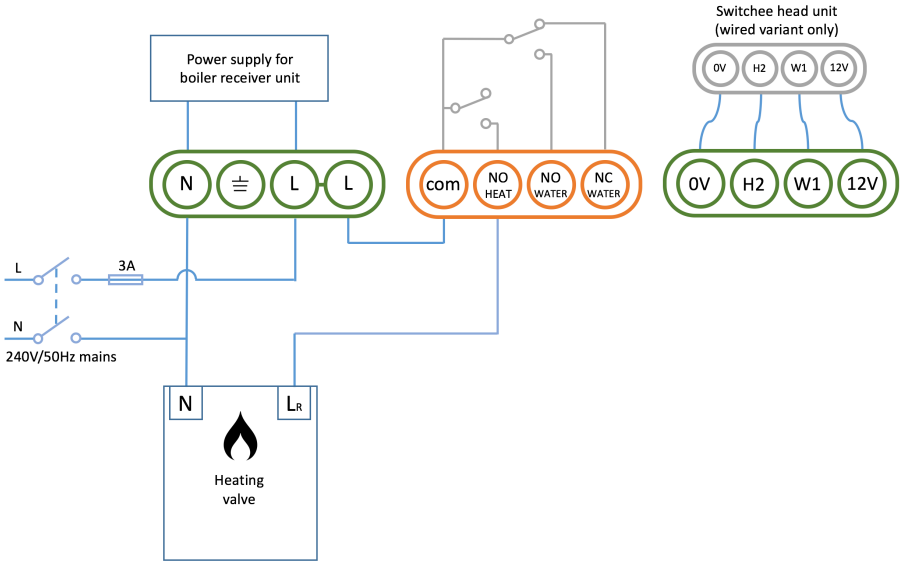


S - PLAN



switchee

DISTRICT HEATING VALVE



switchee

8 Technical Information

Purpose of control: Automatic electrical thermostatic control of heating system. Control of the unit and response times are faster than required by the expected ambient temperature rise.

Rated voltage: 115 - 240 V ~ (AC), 50 / 60 Hz

Surge immunity category: Installation Class 2 or Residential

Electric shock protection: Independently Mounted Class I Equipment

Pollution degree: 2

Rated loads for relays: 240 V~ (AC) or 30V DC, 1 A (Resistive)

Method of earthing: Non-functional ground terminal

Rated impulse voltage: 2.5 kV

Temperature for the ball pressure test: 125 °C for materials in contact with or supporting live parts; 80 °C for accessible surfaces

Safe Extra Low Voltage (SELV) limits of power output from receiver unit to thermostat are 12 V DC, 0.15 A on all SELV terminals (0V, H2, W1 and +12V)

Internal 1A fuse non replaceable.

No user serviceable parts. Indoor use only.

Intended for continuous use. Operates between 0°C and 55°C as set by the user on the display. There will be no increase in this operating value in the case of failure of the temperature sensing equipment.

The desired temperature can be set from 0°C to 25°C.

This control provides a type 1 switching action. The maximum intended click rate for the relays is 1Hz. Relay is rated for 100,000 operations. At the expected switching rate of once per hour, the unit is expected to have a service life of 11.4 years. Relay contacts provide micro-interruption only and do not provide disconnection.

The state of the control during transportation is not critical.

Recycling and disposal: Dispose in accordance with applicable legislation. The WEEE symbol means that this Switchee Thermostat must be disposed of separately from general household waste. When the thermostat reaches its end of life, take it to a designated waste collection point in your area for safe disposal or recycling.

CE EU Declaration of Conformity: Switchee Limited hereby declares that this Switchee Thermostat is in compliance with the essential requirements and other relevant provisions of Directives 1999/5/EC, 2006/95/EC, 2004/108/EC. A copy of the EU Declaration of Conformity is available on request. Email info@switchee.co.