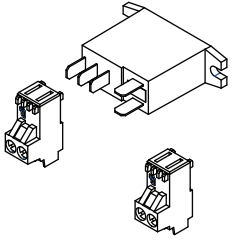


# INSTRUCTIONS:

## SAFETY INTERLOCK KIT

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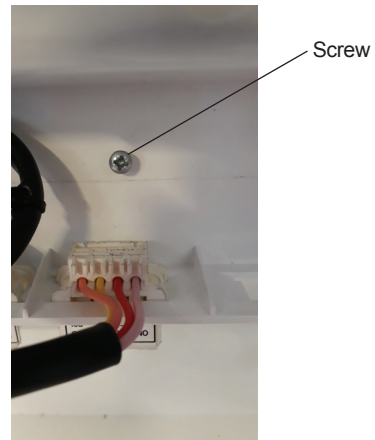
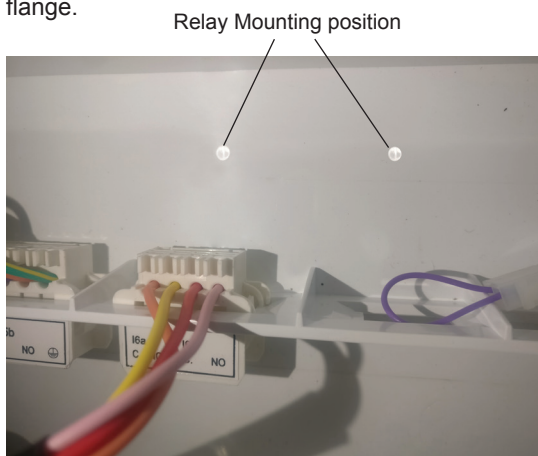


### ICCS Safety Interlock Kit Installation

- A. Instruction leaflet
- B. Lead Interlock
- C. Lead Interlock Mains Voltage
- D. Lead Interlock PELV
- E. 230V AC Relay
- F. 24v AC/DC Relay
- G. Screws x 2
- H. Mains Voltage (I3) and PELV (I7) RAST5 Connector plugs
- I. Cable ties x 2

**Determine if the external interlock circuit is mains 230V 50Hz or 24V SELV/PELV.**

1. Locate the position in the rear of the bulkhead for the relay mounting, insert the first screw and secure one end of the relay flange.



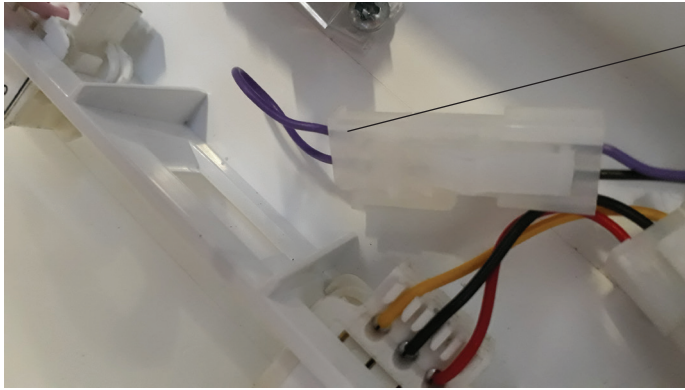
2. Then position the relay and secure the other side of the flange with the second screw.



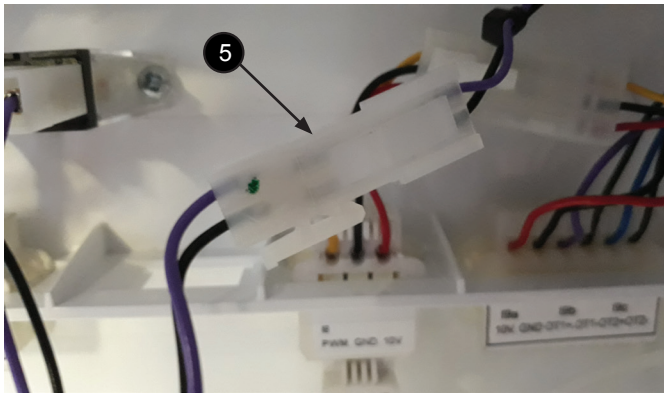
3. Fit the interlock lead to the relay Common and Normally Open contact.



4. Remove the link plug from the boiler PELV harness in the bulkhead.



5. Fit the interlock lead 2 pin plug into the free socket.

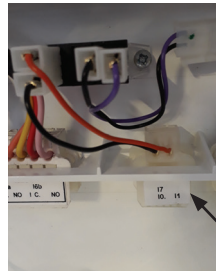


6. Fit the required lead into the relay coil connections, 230V or 24V.

7. Locate the connector and clip into the bulkhead installer connection location, I3 230V, I7 24V.



I3 - 230V Lead



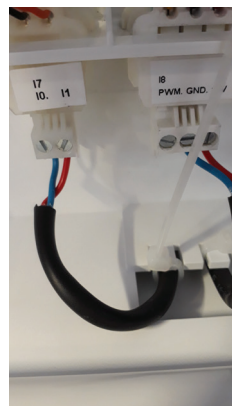
I7 - 24V Lead

8. Route the external safety interlock cable into the boiler, 230V interlock cable via a cable gland on the LHS of the boiler bulkhead, 24V PELV/PELV via the cable access slot on the RHS of the boiler bulkhead (secure this cable with a cable tie).

9. Locate the correct RAST5 plug and wire in the interlock cable and plug into the I3 or I7 connector as appropriate.

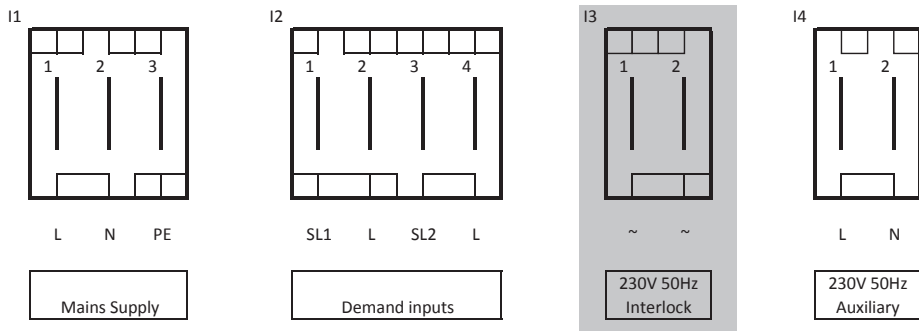


I3 - 230V  
Interlock Cable



I7 - 24V  
Interlock Cable

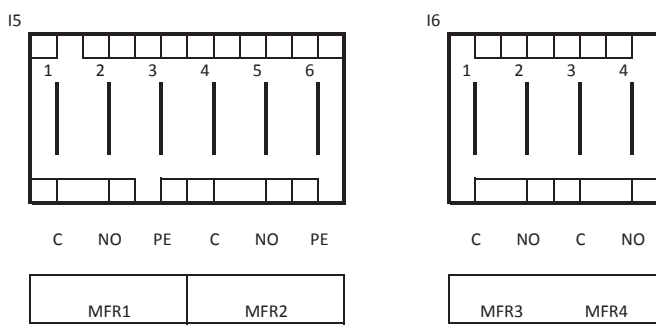
### Mains Voltage/230V 50Hz



### KEY

- I1** Mains Supply Connector, 230V 50Hz. Live, Neutral, PE.
- I2** Demand inputs, Multifunctional, 230V 50Hz. Typical setting:  
SL1, Heating Circuit 1  
SL2, Heating Circuit 2/DHW
- I3** Optional Interlock input, 230V 50Hz
- I4** Auxiliary Mains Supply Output, 230V 50Hz. Live, Neutral.

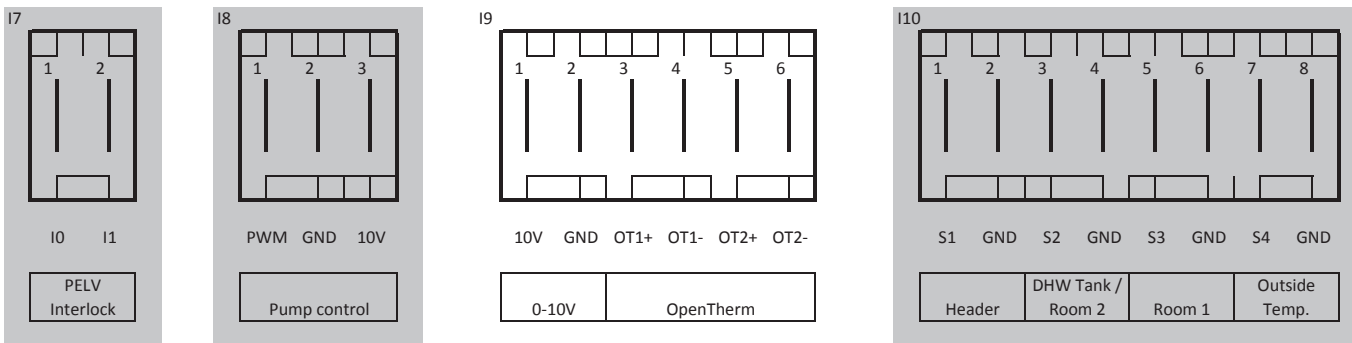
### Volts Free Contacts



### KEY

- I5** Multifunction Volts Free Relay Outputs, 24V DC to 230V 50Hz. Typical setting:  
MFR1 Heating Circuit 1 Pump  
MFR2 DHW Circuit Pump
- I6** MFR3 Burner On Indication  
MFR4 Boiler Fault Indication

### PELV



### KEY

#### PELV Only

- I7** Optional Interlock input.
- I8** Optional Pump Modulation Control, 0-10V.
- I9** Boiler Control:  
0-10V Capacity or Temperature.  
OpenTherm Interface 1. Boiler, Heating Circuit 1 and/or DHW Circuit Control.  
OpenTherm Interface 2. Heating Circuit 2 Control.

#### I10 Optional Sensors:

- Header Sensor for Cascade Control.
- DHW Tank Temperature or Heating Circuit 2 Room Temperature.
- Heating Circuit 1 Room Temperature.
- Outside Temperature Sensor for Heating Curve.

*\*Note: The items grayed out are not standard and are connections provided by the relevant option kits.*