



WebBrick Isolator

WebBrick Systems Product data sheet

Part No. WI 08-02

An isolator switch specifically designed to isolate the automation system from the boiler, multiple boilers or alternative energy sources. This enables a regular service engineer to work on the heating systems in isolation from the advanced control systems.

Features

- Gives service engineers direct manual control over heating systems to allow unfettered access for maintenance
- Clear status indication
- Complete safe isolation of mains supply
- Easy to install, consumer unit housing
- 8A Current rating
- WebBrick connectivity for complete control and to allow the home automation system to recognise a maintenance session

Installation Notes

- Mains input to boiler isolation switch is wired in through the main 63A double pole isolator switch located on the right hand of the unit (looking from the front) The isolator is pre-wired to a plug that connects into the mains input to the PCB.
- 230V mains output to the boiler is taken from the normally open contacts located near the top of the PCB and also the normally closed contacts if the system calls for them. The neutral is taken from the commoning block as is the earth from its commoning block located in the back half of the switch case.
- Once the unit is connected to the mains, the isolation status is shown by the centre neon light (orange) on = live and off = isolated, this should always be verified by other means.
- Low voltage connections are all located near the bottom of the PCB. The unit requires a 12V input to operate, if no 12V supply is connected the device defaults to normal automatic mode, which means the WebBrick control system has precedence. The LED indicators require the 12V supply to light.
- There are 2 signal inputs to the Isolator which are taken from the heating control WebBrick, they are energised from the WebBrick open collector outputs and one controls the heating and the other controls the hot water.



- There are 2 outputs from the Isolator which are normally connected to the digital inputs of a WebBrick which allow it to signal to the WebBrick Gateway which mode the boiler isolation switch is in.
- The low voltage ground also needs to be connected to the normal 12V DC system.
- Maintenance mode is selected by switching the small toggle switch to "MAN" for manual control. The heating and hot water can then be turned on and off using the main control switches. In Auto mode the function of these switches is inhibited.
- Two neon indicator lamps (orange) show when the heating or hot water are on these are independent of the manual/auto status of the unit.
- Two indicator LEDs (green) show which mode has been selected, auto or manual.

Connections

- 230V AC mains input
- Heating normally open and closed contacts
- Hot-water normally open and closed contacts
- WebBrick signaling connections
- +12V and ground

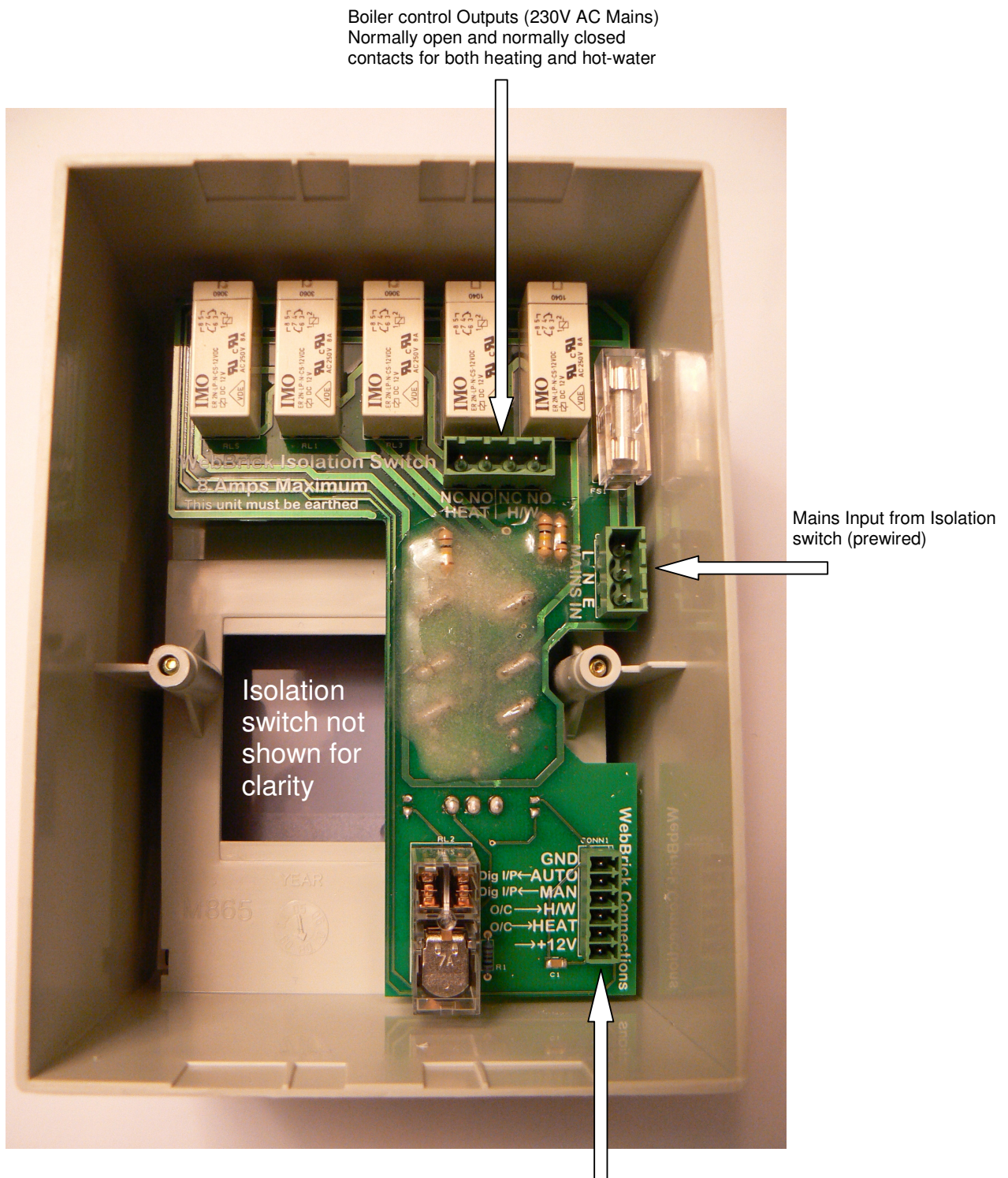


Fig1. WebBrick Isolator, Internal Connections