

HobWatcher Installation and Maintenance

Each year many fires are caused by unattended cooking. HobWatcher provides an effective means of ensuring electric hobs cannot be left on while unattended.

HobWatcher will switch off power to the hob after 10 minutes if no one is present.

The device is essentially a count down timer which can only be reset during the last 20 seconds of the count down time.

System Overview

The HobWatcher device will normally be located on the wall near to the hob it is connected to. The HobWatcher includes usage instructions on the front of it.

Specification

HobWatcher is designed to be able to isolate a 240vac mains load of up to 7.5KW. It provides full double pole isolation of the load and is designed to directly replace a standard hob isolator switch.

The mains feed should be directly from a suitably rated output on the local distribution board, the hob should then in turn be fed from the HobWatcher using suitably sized cable.

A large rear cable entry is provided which is designed to fit directly over an existing flush fitted single gang back box. It will also fit over flush double gang and "double appliance" back boxes. There is ample space within the enclosure, however care must be taken to terminate cables neatly and ensure good connections.

Note that the mains connection terminals are PCB mounted. They are substantial, however the use of excessive force when tightening terminals may result in damage to the PCB.

Cleaning

HobWatcher may be wiped clean with a soft dry or lightly dampened (NOT WET) cloth.

The lid of HobWatcher is secured with two screws, a suitable screw driver will be required to remove the lid.

Opening and closing the enclosure

Once the screws are removed the lid can be pulled towards you and off the back box. Take care when removing the lid as the lid has a circuit board mounted in it which is connected to a circuit board in the back box by a ribbon cable. The ribbon cable may be unplugged at either end if necessary. There is also a second connector for the on/off switch, this may also be unplugged from the PCB - DO NOT remove the connectors from the back of the on/off switch. Finally there is an Earth lead linking the lid to the back box - this is a safety critical component and if disconnected during installation or maintenance must always be reconnected.

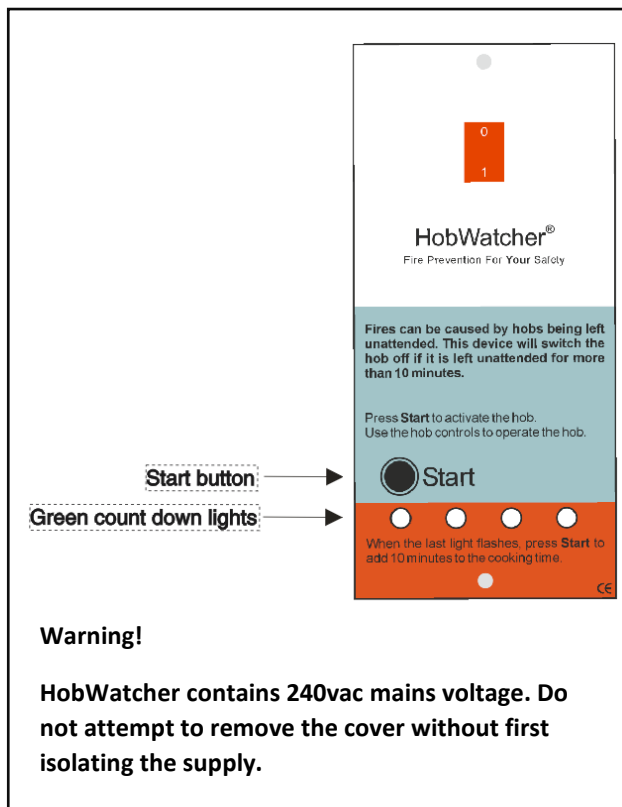
If any of these connectors are disconnected during installation or maintenance they should be reconnected in the following order to ensure that the lid will close properly:

1. Earth lead
2. Ribbon cable
3. On/off switch connector

Take care when closing the lid that no wires are trapped either on the edges of the box or on top of components inside the box. Ensure also that the lid fixing screws do not trap any wires.

Service

There are no serviceable parts within the HobWatcher. Should the unit not function as expected, it will need to be returned to the manufacturer for examination.



Installation

- Unpack the HobWatcher and familiarise yourself with the unit.
- Remove the lid and unplug the “ribbon” cable and the on/off switch cable from the PCB in the back box. Also unplug the earth wire from the back box. The back box is then free to be fitted to the wall.
- Isolate the supply at the local distribution board from the hob isolator switch - if an existing switch is in place. Remove the existing hob isolator switch noting which cable is the feed from the distribution board and which is the load cable going to the hob.
- Fix the HobWatcher backbox to the wall over the cable outlet using appropriate fixing points. These will usually be the two screws that would normally hold an existing isolator switch in place. Two screws will usually provide secure fixing, however these may be supplemented by one or two additional fixing screws at the top of the back box. Note there are multiple mounting points to suit different mounting possibilities.

Make the required connections

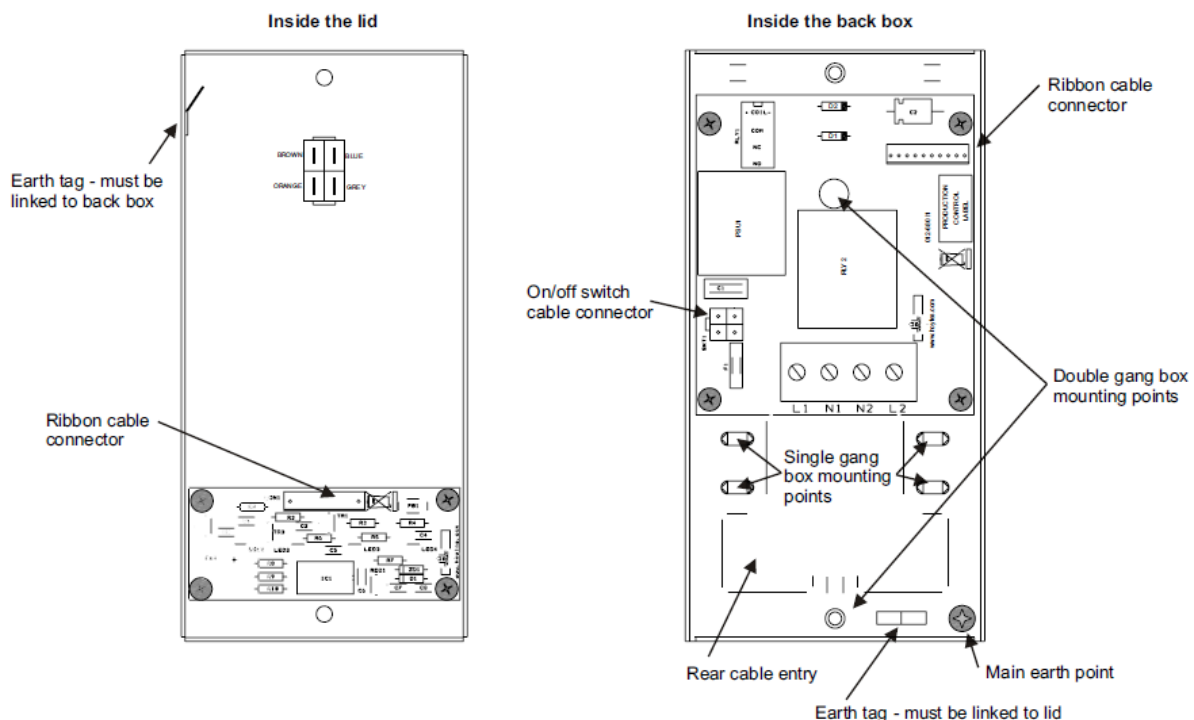
- Connect the feed from the distribution board into terminals L1 and N1.
- Connect the cable to the load into terminals L2 and N2.
- Connect earths appropriately to the main earthing point in the back box.
- Note that the mains connection terminals are PCB mounted. They are substantial, however the use of excessive force when tightening terminals may result in damage to the PCB.
- Take the HobWatcher cover and reconnect the wires in the following order - earth wire, the ribbon connector (observe orientation) and finally the on/off switch cable (observe orientation).
- Carefully place the cover on to the back box ensuring no wires are trapped. Fix the cover on using the two screws supplied again ensuring no wires are trapped.
- Check that the HobWatcher on/off switch is in the off position and turn the supply back on at the distribution board.

Testing

A brief test should be carried out on installation to ensure that the device functions as expected, however it is not necessary to functionally test the device for the full timed sequence.

To test the device do the following:

1. Turn the on/off switch to the on position. The unit will beep twice and all green lights will turn on and then go off again. This switch may be left turned on permanently, there is no need to ever turn it off in normal use.
2. Press the Start button on the front of the HobWatcher, the four green lights should illuminate.
3. Turn on one of the hob rings. The ring should start to heat up.
4. The test is now complete. Turn off the hob.
The green lights will count down and automatically turn off after 10 minutes.



L1 and N1 are the incoming feed from the distribution board.
L2 and N2 are the feed to the hob.