



## KEY FEATURES

- Extends lamp Life
- Ideal for controlling up to 4 x 1.5kW lamps
- Soft-start/zero-voltage switch-off
- Low-cost
- Easy to install

## TECHNICAL SPECIFICATION

Mains Voltage	230Vac +/- 10% @ 50/60Hz
MAX Operating Current	25A
Power Consumption	50mA
Operating Temperature	-40°C to 30°C
PCB Terminal	Max cable entry size 6mm
Remote Switch Type	Latching
IP Rating	IP65
Gland Diameter (Fitted)	Max Cable Entry 2.5mm <sup>2</sup>
4 Lamp Installation	Must be fitted in Parallel

## INTRODUCTION

### **Infresco-S 6kW**

The Infresco-S 6kW is part of a family of controllers designed to provide energy saving when used with Quartz Infrared Halogen Lamps or other Heating and Lighting Products. The 'S' model features a soft start facility that will reduce high inrush currents to protect the heater elements and ease installation. Designed with ease of wiring in mind, this unit is ideal for controlling up to four 1.5kW lamps through the use of two additional cable entry points.

The microcontroller-based unit incorporates zero-voltage switching and a soft-start function to eliminate the lamps' initial high inrush current – potentially increasing lamp life by as much as 30% and reducing the stress on the mains supply. Typical use is for Infra Red Heating lamps, Garden lighting

Installation is simple and once installed is relatively maintenance free.

## INSTALLATION

### **SAFETY FIRST**

Please read these instructions before installing and operating this product.

**The Infresco-S 6kW unit should be positioned with the three fixed cable glands facing down and securely fixed via the four mounting holes accessible from the front of the unit.** Round cable is recommended to avoid water ingress.

## WIRING

**Warning! Ensure the mains supply has been isolated before wiring this unit.**

The unit is fitted with three cable glands. Only one cable should be fitted per gland to maintain the unit's IP rating. Two additional cable glands can be fitted to allow the connection of up to four lamps. See Figure 2.

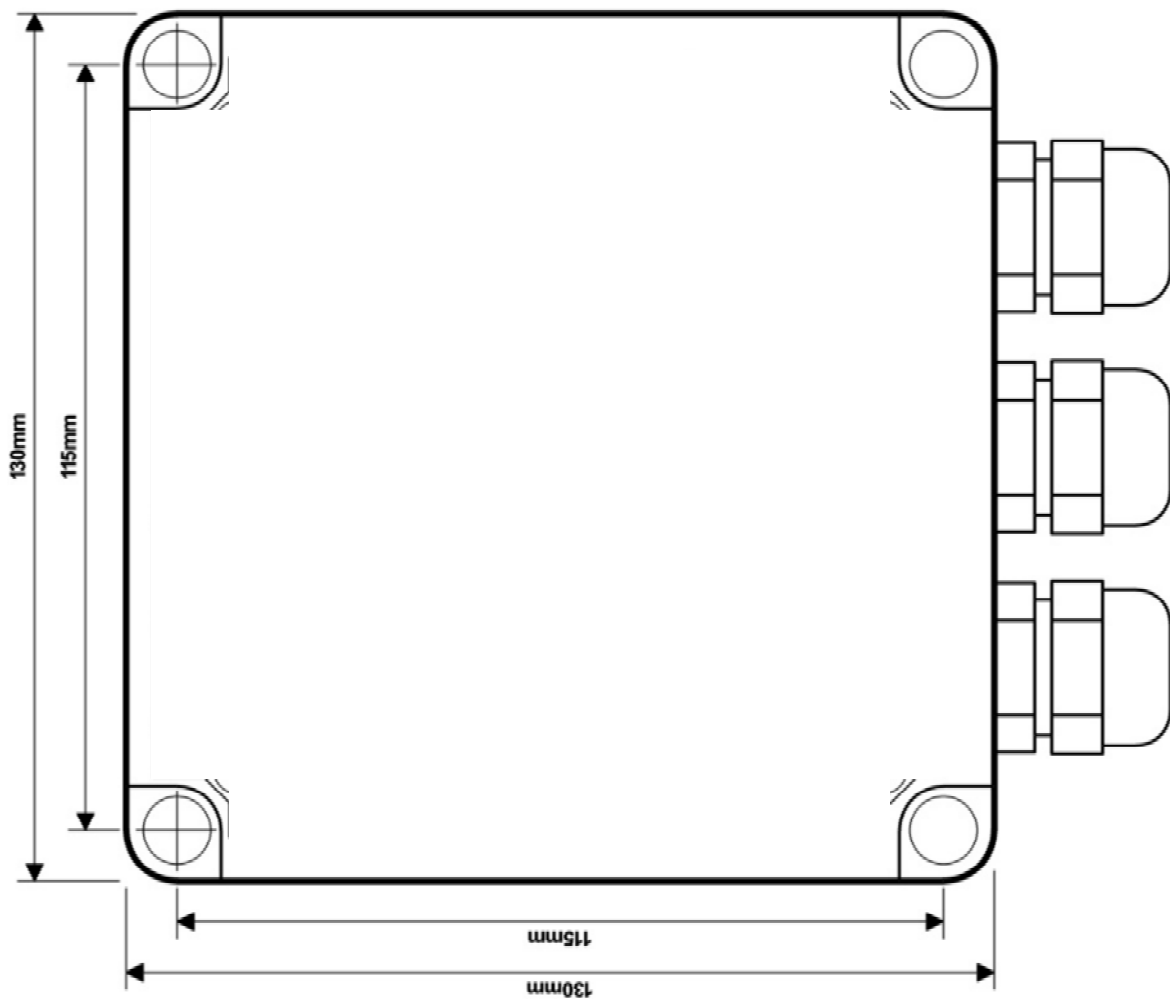
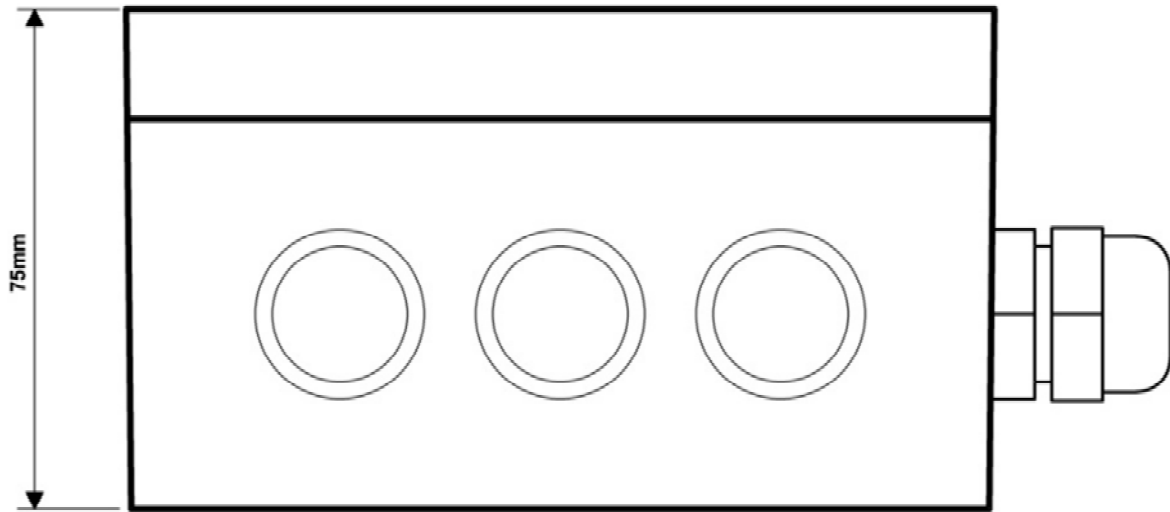
The mains supply connects to the terminal block marked 'LINE'. Connect the supply LIVE to the 'L' terminal, NEUTRAL to the 'N' terminal and EARTH to the 'E' terminal. The lamps connect to the terminal block marked 'LOAD'. Connect the load LIVE to the 'L' terminal, NEUTRAL to the 'N' terminal and EARTH to the 'E' terminal. The load connections are paired to allow the connection of several lamps.

**Important: Ensure all earth wires are connected to maintain earth continuity to the lamp fittings.**

Check all wiring - particularly the line and load connections and make sure the cable glands are tightened.

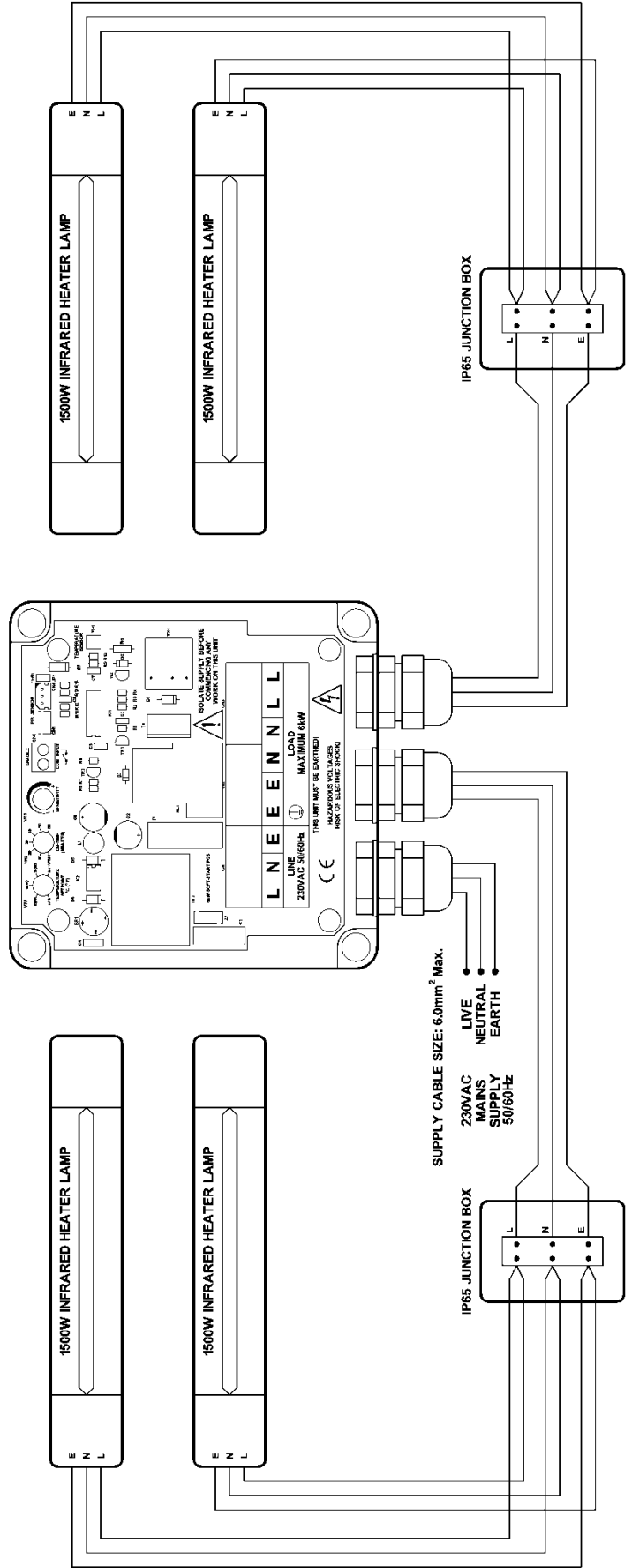
## DIMENSIONS & CONNECTIONS

### DIMENSIONS



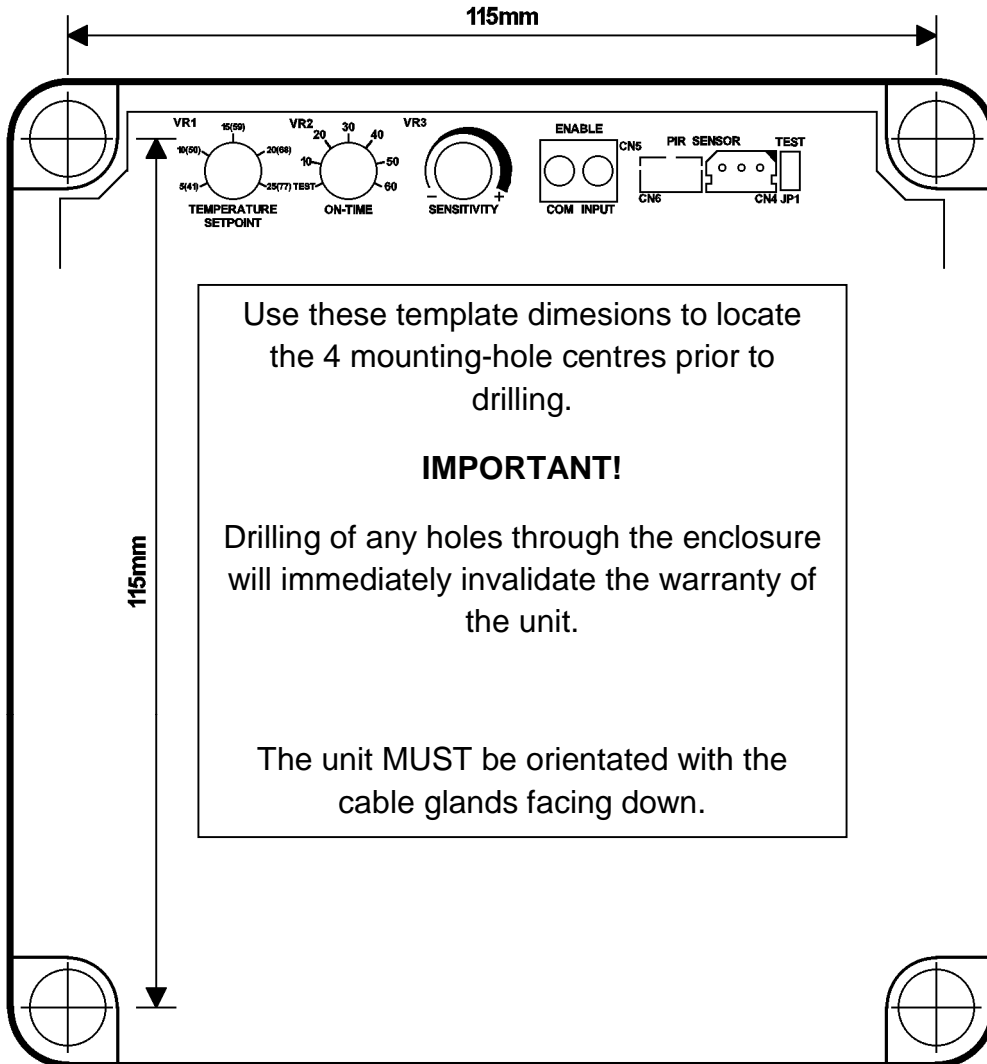
# CONNECTIONS

Typical Load  
4 x 1500W Infra-red Heater Lamps



# MOUNTING TEMPLATE

**IMPORTANT!** When wall mounting, the unit must be orientated with the cable glands facing down.



## **TROUBLESHOOTING**

**Problem:** Lamps do not switch on.

**Solution:**

- 1) Check the LINE and LOAD wiring connections to the unit and ensure the mains supply is switched on. Go to 2) if fault still exists.
- 2) Check the lamps/Lamp fittings. If possible, fit a known working lamp. Go to 3) if fault still exists.
- 3) Isolate the mains supply then check, and replace if necessary, the PCB-mounted fuse (F1). If the fault still exists, contact your supplier.

## **RECOMMENDATION & SAFETY REQUIREMENTS**

### **SUPPORTING DATASHEETS FOR PRODUCTS AND APPLICATIONS**

Other documents, which may be appropriate for your applications, are available on request.

<b><u>CODE</u></b>	<b><u>IDENTITY</u></b>	<b><u>DESCRIPTION</u></b>
X10255	SRA	Safety requirements: Addressing the Low Voltage Directive (LVD) including, Thermal data/cooling, Live parts warning Earth requirements and Fusing recommendations.
P01.1	COS	UAL Conditions of sale.

**NOTE:**

It is recommended that installation and maintenance of this equipment should be carried out by suitably qualified personnel, with reference to the current edition of the I.E.E. Wiring Regulations BS7671. The regulations contain important requirements regarding the safety of electrical equipment.



**Not for general waste**



## PRODUCT APPLICATION

- Patio areas.
- Smoking shelters.
- Restaurants.
- Warehouses.
- Workshops.
- Garden lighting.
- Livery stables.



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