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1 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

2 Technical Specification

Mains Voltage	230V AC $\pm 10\%$ @ 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 ²
4 Lamp Installation	Must be fitted in Parallel

3 Introduction

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 easy 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.

4 Installation

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.

5 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.

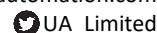
Important: Ensure all earth wires are connected to maintain earth continuity to the lamp fittings.

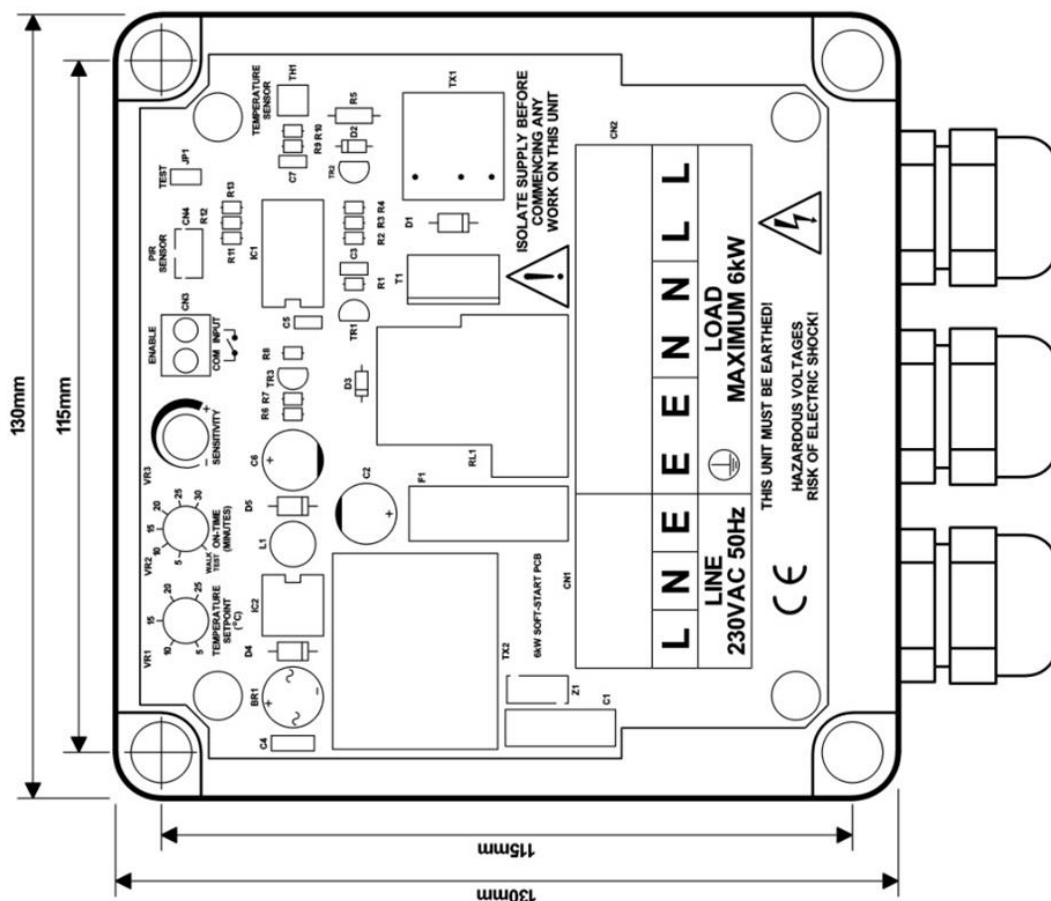
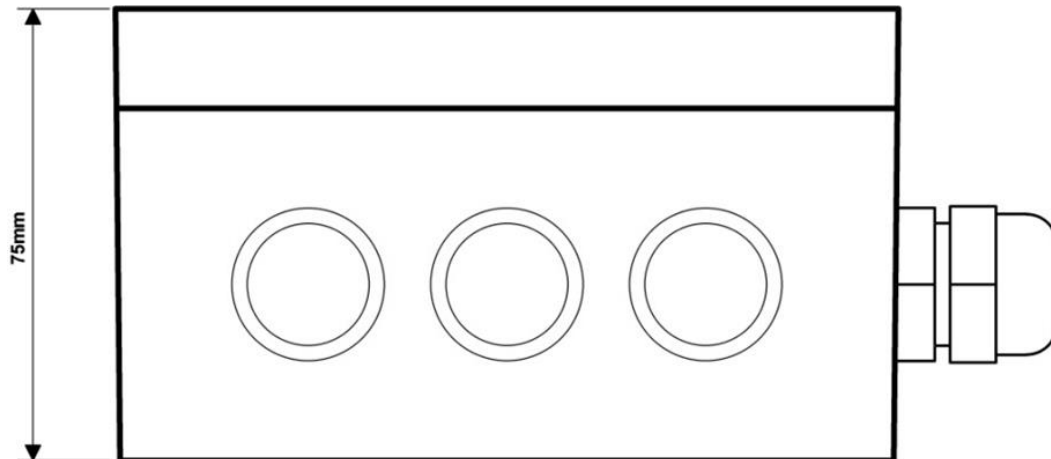
Check all wiring - particularly the line and load connections and make sure the cable glands are tightened.

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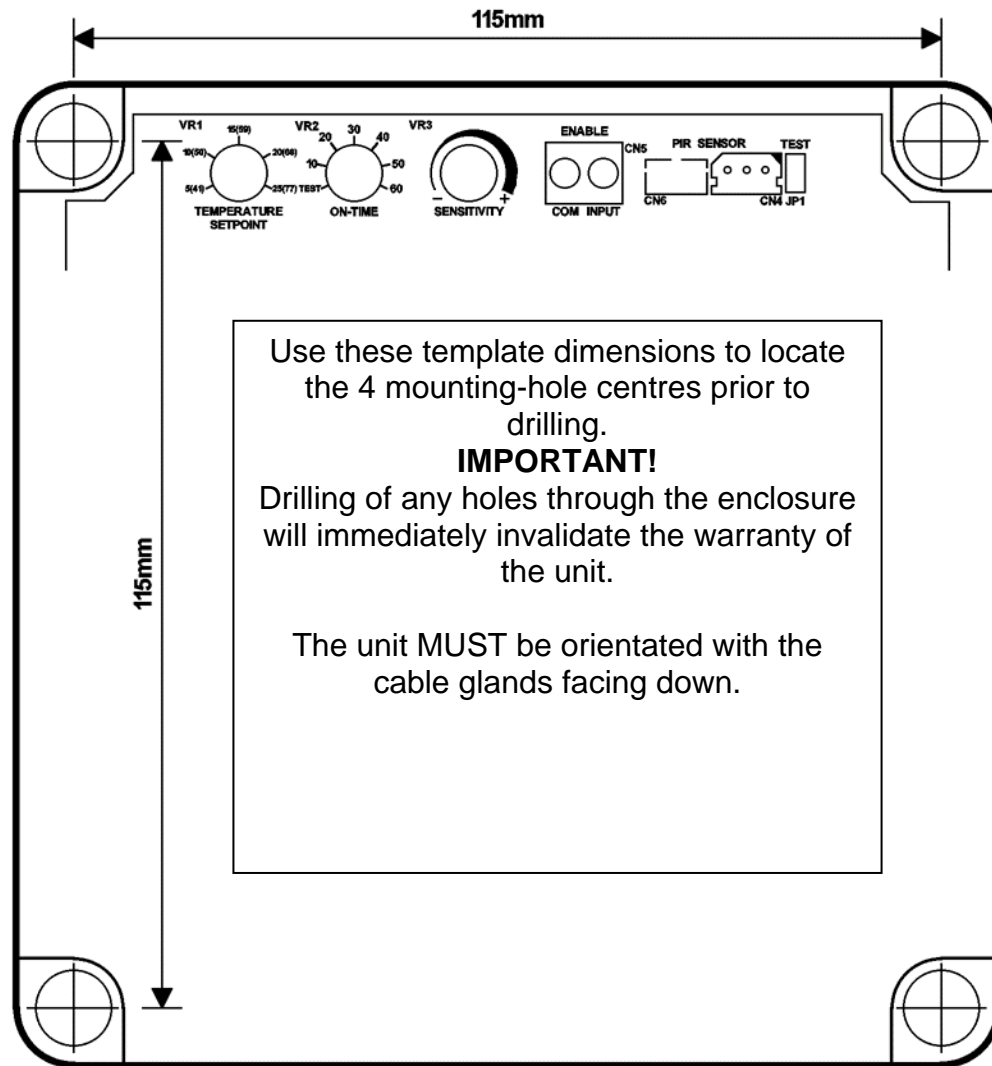
6.2 Connections






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IMPORTANT! When wall mounting, the unit must be oriented with the cable glands facing downwards.



8 Troubleshooting

Problem	Solution	
Lamps do not switch on	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, go to [4]
	4	Contact your supplier

9 Recommendation & Safety Requirements

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

Code	Identity	Description
X10255	SRA	Safety requirements: Addressing the Low Voltage Directive (LVD) including, Thermal Data/Cooling, Live Parts Warning, Earthing 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.T Wiring Regulations BS7671. The regulations contain important requirements regarding the safety of electrical equipment.



Not for general waste

X20032 – Infresco-S 6kW
Installation Manual
Issue 6



10 Product Applications

- Patio Areas
- Smoking Shelters
- Restaurants
- Warehouses
- Workshops
- Garden Lighting
- Livery Stables



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Date: 14, June 2023