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UNITED AUTOMATION LTD

Southport Business Park  
Wight Moss Way  
Southport, PR8 4HQ  
ENGLAND

Tel: 0044 (0) 1704 – 516500  
enquiries@united-automation.com  
www.united-automation.com

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## 1 Key Features

- Extends lamp life
- Ideal for controlling up to 2 x 2kW lamps
- Soft-start/zero-voltage switch-off
- Low-cost
- Easy to install
- Power ON (Blue) & Heater ON (Red) LED Indication

## 2 Technical Specification

<b>Supply Voltage</b>	230V AC $\pm 10\%$ 50/60Hz
<b>Switching Capacity</b>	4kW Max.
<b>Current Consumption (control circuit)</b>	50mA
<b>Terminals</b>	2.5mm <sup>2</sup> Rising Clamp
<b>Operating Temperature</b>	-20°C to 40°C
<b>Protection Rating</b>	IP65
<b>Gland Diameter</b>	Max Cable Entry 2.5mm <sup>2</sup>
<b>Enclosure Dimensions (W x L x H) (mm)</b>	120 x 112 x 50

## 3 Introduction

The Infresco-S-4kW 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 switches to soft-start each time power is applied.

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%. Installation of the unit is simple and once installed is relatively maintenance-free.

## 4 Installation

**Important:** Carefully read the following information before installing the unit.

The Infresco-S-4kW should be fixed securely using the four mounting holes accessible from the front of the unit. Remove the lid to access the mounting holes. To ease installation, a mounting template is provided on the next page to locate all four of the mounting holes' centres.

**IMPORTANT! The unit must be positioned with the cable glands facing down.**

### 4.1 Wiring

**Warning! Ensure all earth wires are connected to maintain earth continuity to the lamp fittings. Isolate the mains supply before wiring this unit.**

The unit is fitted with two cable glands. Only one cable should be fitted per gland to maintain the unit's IP rating. When fitting two lamps, refer to wiring diagram for an alternative wiring configuration using a junction box.

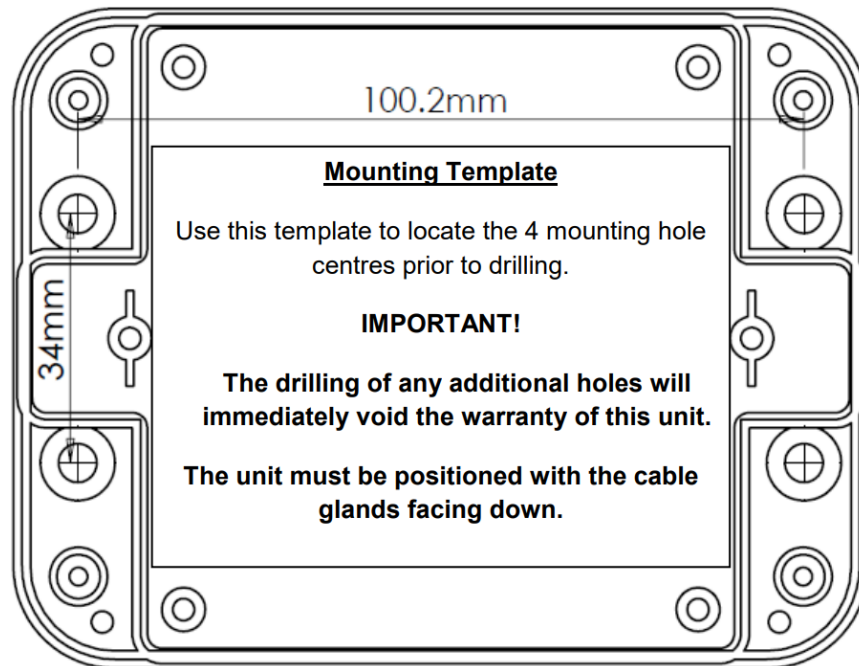
The mains supply connects to the terminal block marked '**LINE**'. Connect the supply **LIVE** to the '**L**' terminal, **NEUTRAL** to the '**N**' terminal and **EARTH** to the '**E**' terminal.

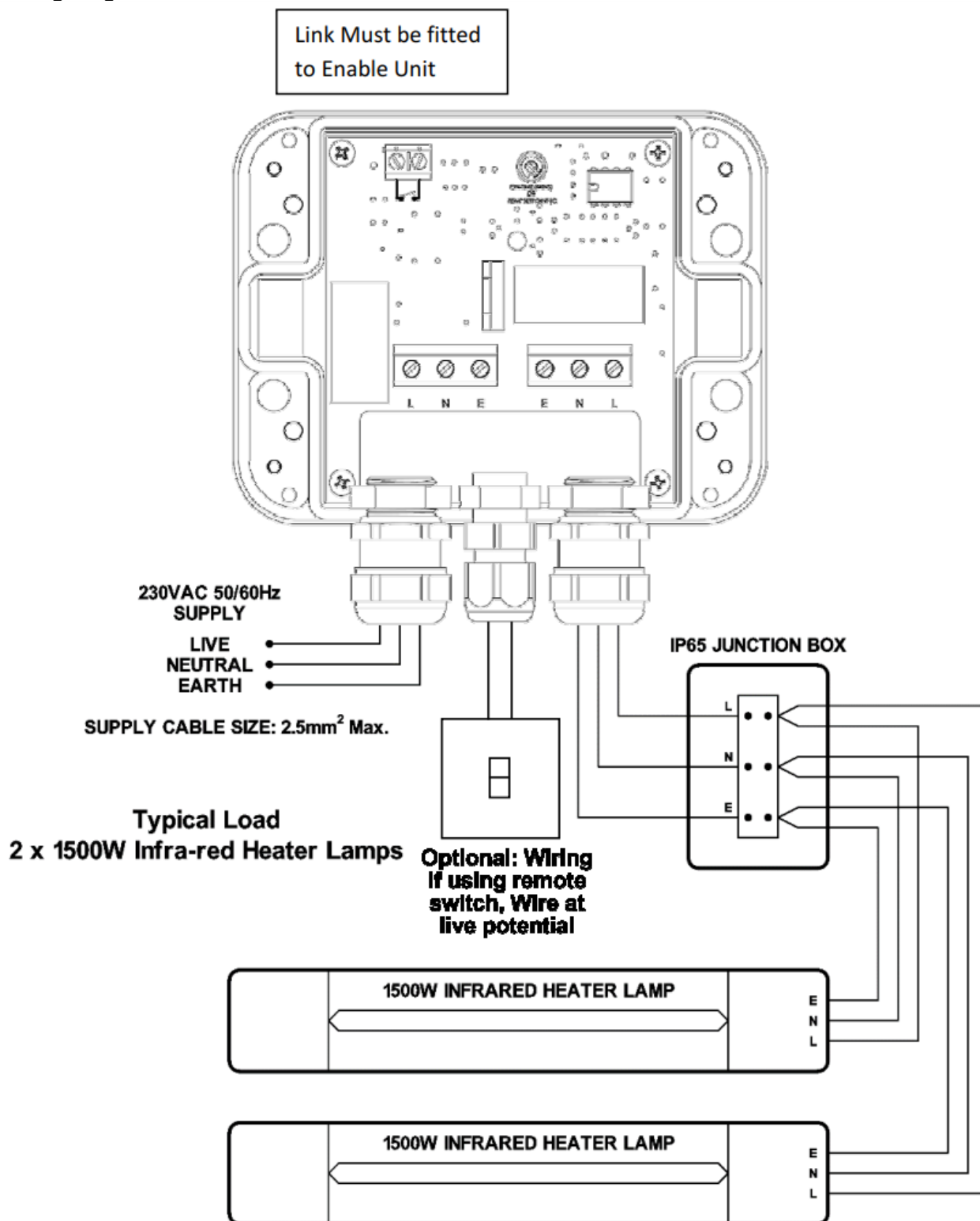
The lamps connect to the terminal block marked '**LOAD**'. Connect the load **LIVE** to the '**L**' terminal, **NEUTRAL** to the '**N**' terminal and **EARTH** to the '**E**' terminal. If two lamps are to be fitted, they must be wired in parallel.

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

### 4.2 Fusing

It is recommended that fast acting semiconductor type fusing (or MCB) be used in line with the LIVE supply for device and circuit protection. See SRA Data sheet X10255 for further information.





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## 7 Additional Information

When using a remote switch, it is important that an additional cable gland (not supplied) is used to ensure the IP rating is maintained. The rear of the enclosure contains the PCB; this will need to be removed before attempting to fit the additional cable gland. Remove the four fixing screws and remove the PCB. The 'knock-out' can then be removed and the additional gland fitted as shown above. This should be done very carefully - ensure the gland is tightened up using a spanner. Refit the PCB and secure with the screws.

Remove the link that is fitted into the INPUT/COM terminals and wire in the switch wires.

Once the additional gland has been fitted the units should be mounted as shown above.

This is the only time the unit should be mounted in this way. If the additional switch is not being used, then the unit must be fitted with the gland facing down. Once the unit is wired, the lid should be refitted as shown.

## 8 CE Marking

This product family carries a "CE" marking. For more information see RECOMMENDATIONS section and contact our sales desk. A Declaration of Conformity is available on request.

## 9 Recommendations & Safety Requirements

Other documents which may be appropriate for your applications are available upon 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 if 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**



#### 10 Product Applications





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



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