INTRODUCTION
The Infresco has been designed specifically to work with Infra Red Heaters, with a rating of 3.5kW it will allow you to control a variety of heating and lighting solution.
The Infresco has a 1 to 10 step setting allowing you to find the optimum comfort setting in you specific area. With energy saving a major factor in the design brief, once the Infresco is switched on it will automatically manage the heating system. With a built in temperature sensor only allowing the unit to switch on when required and a PIR that will detects a requirement for the heater to switch on only when needed. An optional remote control allows for the unit to be fitted out of the way so safety is paramount. The Infresco has a built in soft start function which will add up to an additional 30% life to your heater lamp.

APPLICATIONS
Any application were high inrush current is an issue or control is required. Typical use is for Infra Red Heating lamps, Garden lighting

FEATURES
Soft Start – up to 30% extended life of Lamp
Variable Control – Ability to find comfort level
Simple Installation – Ability to plug directly in 13A Plug with up to 3kW load
Energy Saving – Automated system. (Only heat when required)
Temperature Monitoring – If ambient temperature is above preset the Infresco unit remains switched off

SAFETY FIRST
Please read these instructions before installing and operating this product.

Installation
The ideal site for the PIR to be mounted is approximately 2.5 + Meters of the floor. Ceiling mounting is preferred but not essential
The PIR must not be mounted.
- Directly in line of the lamps output
- Highly reflective surfaces
- Radiators or other thermostatically controlled heaters
- Open door ways with people walking past

Commissioning
NOTE: On switch on the PIR takes 60 seconds to set before detection takes place
NOTE: The PIR continues to monitor the area and will reset to the set time every time it detects movement.
Before testing ensure the wiring is correct. The temperature trip point has already been preset at the factory. The timer is preset to 5 minutes.
The expected detection area can now be "walked tested" using the diagram shown in mind. The area should be crossed in various directions to ensure coverage is as expected.

Display Features

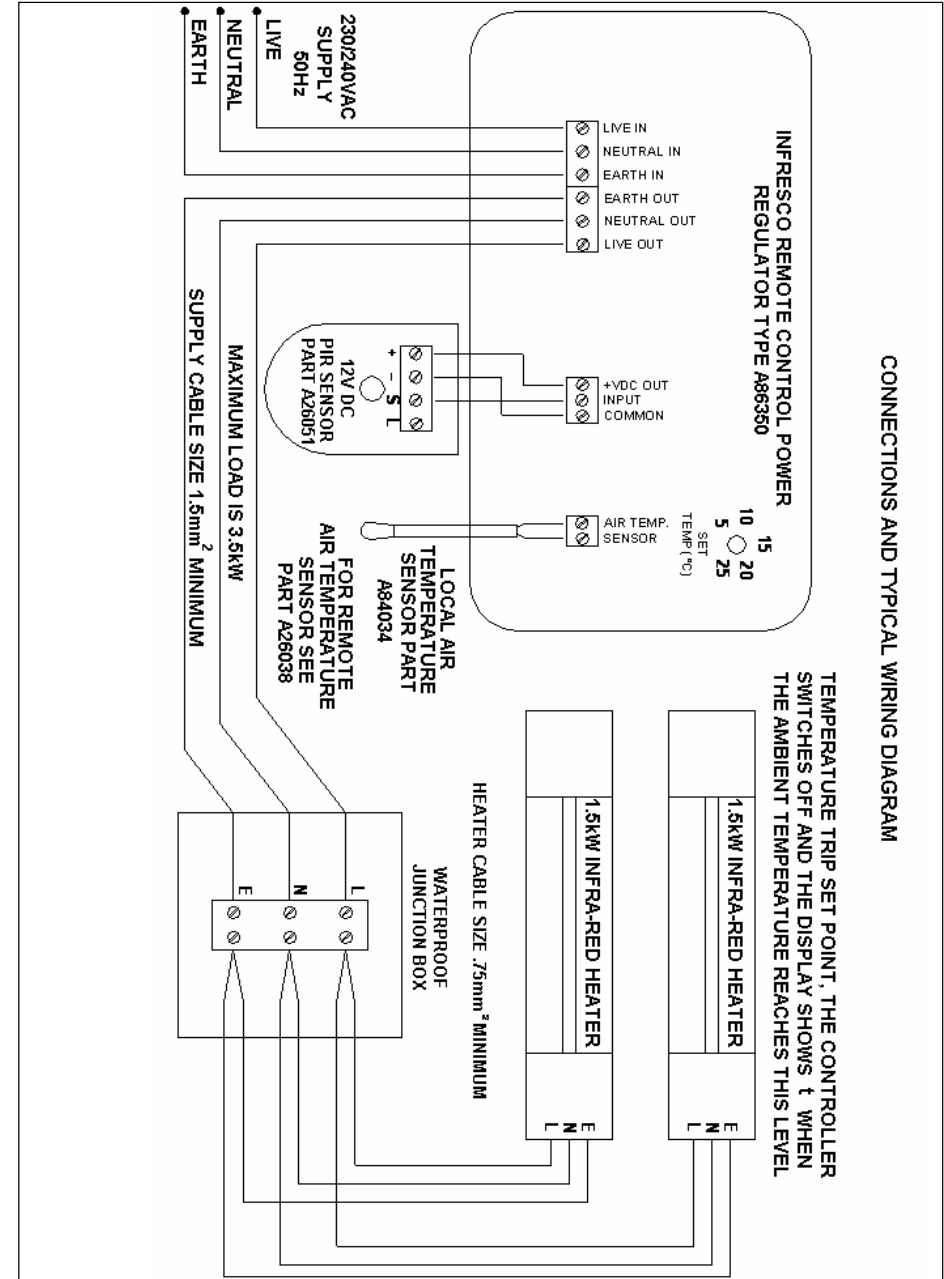|	
When display shows 't'	The Infresco is monitoring the ambient temperature and the ambient temperature remains above the trip level.
When display shows 'F'	The Infresco is set to full output
When the Decimal Point flashes	Transmitting from Remote hand set
When the Decimal Point is on	The Infresco is on standby.

PIR Movement Sensor

Operating Voltage	12V dc
Direction	90° Adjustable
Detection	18 Metres

CONNECTIONS AND TYPICAL WIRING DIAGRAM

Specifications

Infresco Main Unit

Mains Voltage	230Vac +/- 10% 50 Hz
Max load at 20℃ ambient	3.5 kW
Power Consumption	50mA
PIR Set Time Period	5 Minutes
Temperature Set point	5℃ to 25℃
Factory Set Temperature trip point	20℃
IP Rating	65
Gland Diameter	Max Cable Entry 2.5mm²
2 Lamp Installation	Must be fitted in Parallel
Operating Temperature	-20℃ to 30℃
IP Rating	IP65
Max Unit Operating Temperature	65℃
Dimensions	W=200mm D=110mm H=60mm

WARNING

It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.E. wiring regulations (BS7671) by suitably qualified/trained personnel.

These regulations contain important requirements regarding safety of electrical equipment (for International Standards refer to I.E.C/ directive IEC950).

UNITED AUTOMATION

UNITED AUTOMATION LIMITED

1 Southport Business Park
Kew
Southport, PR8 4HQ
ENGLAND

Tel: 0044 (0) 1704 – 516500 Main
Tel: 0044 (0) 1704 - 516516 Sales
Fax: 0044 (0) 1704 – 516501
Enquiry@united-automation.com

INFRESCO

Installation & Users' Manual

RoHS Compliant
Directive
2002/95/EC

UNITED AUTOMATION

X10702   Issue 1   10/08/07