

# **INSTRUCTIONS FOR RANGELITE EMERGENCY LIGHTING LUMINAIRES**

**WARNING: BEFORE INSTALLING OR REPAIRING THIS FITTING, ISOLATE THE SUPPLY FROM THE AC MAINS  
THIS FITTING MUST BE ELECTRICALLY EARTHED**

## 1. INTRODUCTION

- a) These instructions are issued to provide relevant information concerning the handling, installation, use, maintenance, and disposal of emergency luminaires.
- b) It is important that these instructions are read thoroughly before any installation work commences. These must also be retained on file to provide information on use, maintenance and disposal at a later date by the end user.

## 2. GENERAL

- a) All emergency luminaires supplied are designed and manufactured in accordance with the relevant British Standards.
- b) It is important that the user does not modify the luminaire or use them for a purpose, or in an environment for which they are not designed. Any modifications may render the luminaire unsafe and will invalidate the warranty and CE compliance.
- c) The luminaire has an enclosure rating of IP20 and is designed to operate in a maximum ambient temperature of 25°C
- d) All luminaires unless otherwise stated are designed for direct connection to a standard mains supply as so indicated on the luminaire. All switching etc. shall comply with BS5266 part 1 & the latest IEE regulations. Unless specifically permitted luminaires shall NOT be connected to, or be controlled by an energy management system.

## 3. INSTALLATION.

The Installation must only be carried out by a competent electrician and in accordance with (i) Regulations for Electrical Installations, Published by the Institute of Electrical Engineers and (ii) The requirements of BS 5266 part 1.

- a) Open the front panel by slackening the fixing screws on each side of the fitting and hinging down to the vertical, or by hinging down to the horizontal position and lifting off. On some versions the front panel should be removed.
- b) Mount the fitting in position using the two keyholes provided. NOTE: Ensure that the fixing surface is capable of holding the weight of the fitting (Remember the weight of the batteries).
- c) Connect the mains supply to the terminal block on the PCB, see connection diagram below.
- d) Surge suppressors may be required at the point of connection to the supply wiring when installing luminaires to MICC.
- e) Connect the red and black battery leads to the corresponding terminals on the battery. Ensure correct polarity throughout or else serious **DAMAGE MAY OCCUR**. Add the link on versions with 6 volt batteries. The battery should be marked with the date of installation/commissioning. The lamps will not light up as the circuit requires a mains supply to activate.
- f) Refit the front panel ensuring that no wires are trapped and that the fasteners are tight.
- g) The design of the box and lamp brackets enables the lamps to be adjusted down and to the sides to cover a wide area. Both adjustments can be made from outside the box, by use of a large screwdriver / spanner. Some versions with round lamps have an alternative mounting position on the lower edge of each side (after removal of a hole plug). This allows them to shine vertically down onto the floor. These adjustments are best done after the unit has been on charge for a few hours. Isolate the mains supply to switch on the lamps.
- h) Insulation testing should be carried out in accordance with the latest IEE regulations and should not exceed 500V DC between Live and Neutral connected together and Earth.

## 5. COMMISSIONING/TESTING.

After connecting the mains supply check that :-

- a) The RED LED is illuminated. This indicates all of the following:-
  - 1) That the mains supply is present and that the charger is working correctly.
  - 2) That both lamps are connected and both filaments are intact.
  - 3) That the battery is connected.

If the LED is not illuminated check all of the above.

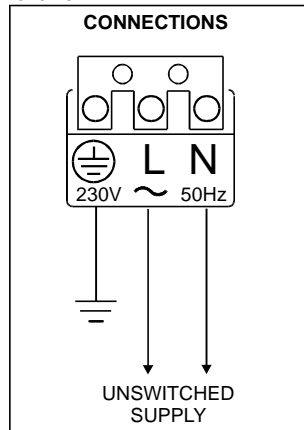
- b) The lamps will energise under emergency conditions, by removing the mains supply.

The unit should be left on charge for a minimum of 24 hours before being tested for the rated duration. Routine testing should be carried out in accordance with the instructions as indicated on the Test Record card. (A Test Record card is supplied with each product.)

## 6 OPTIONS

- A) **INFRA RED TESTING** facility (part no prefixed by IR.) see supplementary sheet.
- B) **TIME DELAY** (part no suffixed TD)

This is used to keep the lights on for a short period of time after the end of a mains failure. Used in situations where discharge type lighting (which requires a warm up period to achieve full brightness after switch on) is used as general lighting. The delay can be adjusted from approx. 4-15 mins by rotating the adjuster on the bottom right corner of the PCB. Marked as follows :- **DELAY TIME MIN MAX.**



## 7. SPECIFICATION.

Lumens Output    2x18W - 2 x 260 Lumens  
                          2x20W - 2 x 300 Lumens  
                          2x50W - 2 x 900 Lumens

Battery Data - Sealed Lead Acid

Typical 2x12Volt - 7 Ampere Hour Rating (2x55W 1 Hour Duration)  
                          2x6Volt - 12 Ampere Hour Rating (18w units only)

Input Voltage - 230-240V AC 50Hz

Cautionary Note : Lighting levels are only provided to allow checking of correct operation, and determination of correct lighting levels on an escape route can only be made with full photometric data.

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