

### **INSTRUCTIONS FOR IP65 RANGELITE EMERGENCY LIGHTING UNIT**

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, and they must 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 lighting luminaires supplied are designed and manufactured in accordance with relevant British Standard specifications.
- b) It is important that the user does not modify the equipment or use it for a purpose, or in an environment for which it was not designed. Any modifications may render the equipment unsafe and will invalidate the warranty and CE compliance of the product.
- c) The installation engineer should ensure that the unit is fitted correctly to retain the IP65 rating.
- d) Unless otherwise stated all luminaires are designed to operate in a maximum ambient temperature of 25°C.
- e) All fittings unless otherwise stated are designed for direct connection to a standard mains supply as so indicated on the fitting. All switching etc. shall comply with BS5266 part 1 & the latest IEE regulations. Unless specifically permitted fittings 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. (ii) Requirements of BS 5266 part 1.

- a) Remove the front panel by slackening the fixing screws in the corners.
- b) Mount the fitting in position using the four recessed holes in the corners. NOTE: Ensure that the fixing surface is capable of holding the weight of the fitting (remember the weight of the batteries).
- c) Drill holes for the lamp and mains cable bushes in the sides of the enclosure as shown in the diagram below. Fit the cable bushes, ensuring that the washer is fitted correctly and that the nut is tight.
- d) Mount the lamp brackets at the sides of the enclosure and pass the cable through the bush leaving a loop outside. Tighten the bushes to ensure a watertight seal.
- e) Connect the mains supply and lamp cables to the terminal blocks on the PCB. (See connection diagram below)
- f) Surge suppressers may be required at the point of connection to the supply wiring when installing fittings to MICC.
- g) Place the batteries in position (see diagram) and connect the red and black battery leads to the corresponding terminals on the battery. Ensure correct polarity throughout else serious **DAMAGE MAY OCCUR**. 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.
- h) Replace the front cover ensuring that the fasteners are tight.
- i) Adjust the lamps to cover the area required. This is best done after the unit has been on charge for a few hours. Isolate the mains supply to switch on the lamps.
- j) 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.

#### 4. 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 correctly.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 card is supplied with each unit.)

#### 5. TIME DELAY option (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 time can be adjusted from approx. 4-15 mins by rotating the adjuster on the bottom right hand corner of the PCB. Marked :- **DELAY TIME MIN MAX**.

