Universal Remote Emergency Pack
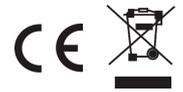# Installation & Operating Instructions

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Product Specification

- Mains voltage: 230V +/- 10%
- Mains frequency: 50 - 60Hz
- Power Consumption: (See product label)
- 2 x user-serviceable internal fuses: 'T' 2A 5x20mm
- Emergency output voltage range: (See product label)
- Emergency Duration: (See product label)
- Battery: (See product label)
- Ambient temperature range: +5°C to +35°C
- Min/Max Conductor sizes: 0.5-4mm²
- Weight   Max 1kg
- Charging time: 24 hours
- Protection class: 1
- Degree of protection: IP20
- Material: UL94 V0 Polycarbonate
- Em module complies with: BS EN 61347-2-7/2-13
- Suitable for installation to EN50172 and BS7671

The unit provides reinforced insulation between the mains supply and battery charging circuit and employs self-resetting protection against short-circuit of battery terminals. Normal charging will resume automatically once a fault is removed.

NOTE – To comply with regulations, installation must be carried out by a suitably qualified, competent person and in accordance with the current IEE wiring regulations (BS7671) and building regulations. The emergency pack requires 2 live feeds, a permanent supply for charging the battery pack and 1 for switching the lamp on and off.

Features

- Maintained emergency solution for use with LED panels, arrays, down lights etc. up to 50W
- User selectable, mains-mode LED output current with additional 10, 20 & 25% reductions
- Integral microwave presence detector for automatic on/off switching of the lamp when movement is detected. *Selected models only.*
- Contains replaceable 2, 3 or 4 cell, 4Ah Nickel Cadmium (NiCd) battery (See product label)
- Emergency output power (Typical): 1.4W (2-cell) to 3.7W (4-cell)
- External polarity protected battery connector for simple isolation

298mm (Fixing centres)

68mm (Fixing centres)

135mm (w)

42mm (h)

320mm (l)

Installation

Ensure the mains supply is isolated before attempting installation!
Please refer to page 2 of this leaflet for wiring details. Once wiring is complete, secure all cables and the lid in place with the cable grips and screws provided.

For some models, a microwave sensor is included, which is located with its detection surface facing down into the base. For correct operation, the remote box should only be mounted on a non-metallic surface above the area to be monitored and with the silver product label facing upwards. The sensor's settings can be adjusted to suit the application using the configuration switches underneath. (See details on page 2). The integral light sensor can be utilised by providing a small hole in the ceiling directly under its location in the remote box base.
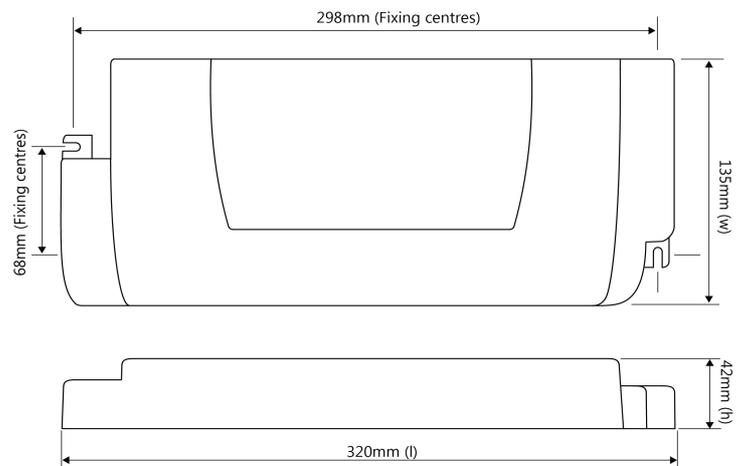
A miniature ceiling bezel is supplied in the packaging carton, which allows recessed installation of the indicator LED through a 16mm hole. Once installation is complete and mains power is applied, the indicator LED will be illuminated and the supply should be left undisturbed for a minimum of 24 hours to charge the batteries before attempting a commissioning test. After a successful test, the date should be noted on the space provided on the battery.

The green 5mm LED indicator shows the following conditions:
- LED green: mains OK and battery connected
- LED off: Mains failure [below 160V], battery disconnected/ battery faulty or faulty unit

Emergency Lighting 'standard' or 'manual' Test

The following minimum inspections and tests should be carried out:
Monthly
Switch off the mains power supply to the lighting unit. Inspect all emergency lights for satisfactory operation. Any defects should be noted and actioned by a competent person as soon as possible.
Yearly
Switch off the mains power supply to the lighting unit. Leave the unit to run for the rated period (e.g. three hours). The lights should remain operable from the battery for the whole period.
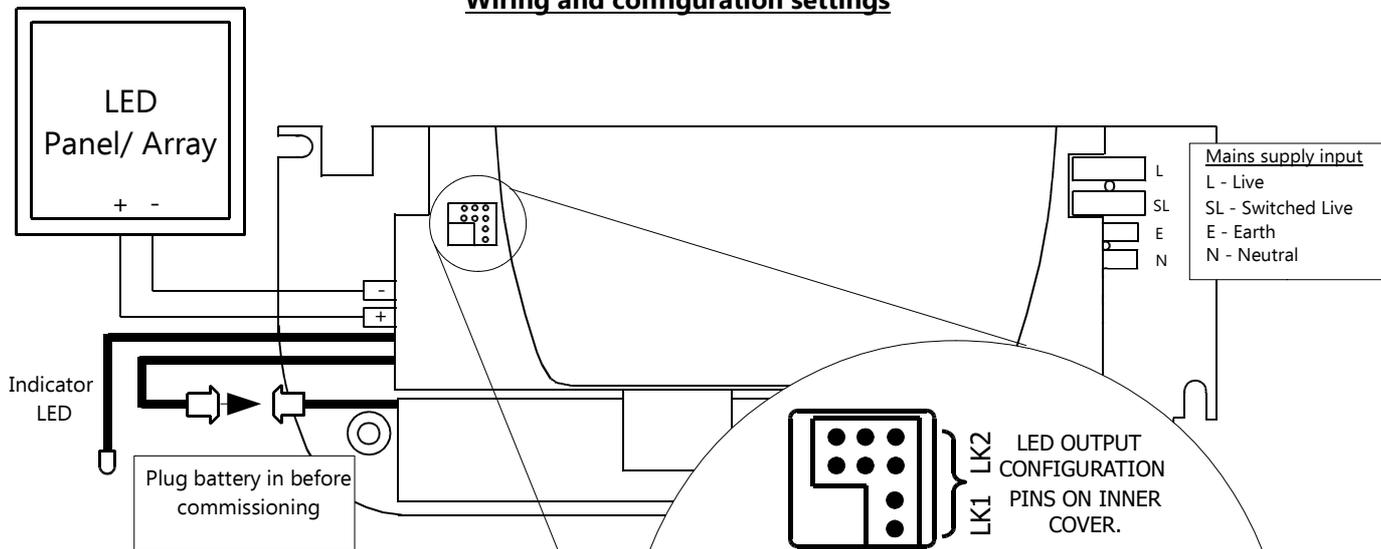Please be aware that further inspection / testing may be required, e.g. by risk assessment / local legislation.

Batteries and Disposal

The internal battery has a design life of 4 years and must be replaced in a timely manner to ensure the integrity of the emergency lighting system is maintained. In any case, the battery should be replaced when it no longer provides the rated duration (3 hours).

The manufacturer of the enclosure is committed to fulfil its obligations as a producer of batteries used in emergency lighting applications. End-of-life batteries may be returned to the remote enclosure manufacturer at the customers cost and arrangements will be made to ensure their correct disposal. Alternatively, they may returned directly to an authorized treatment facility at the customer's cost.

Wiring and configuration settings

LED Panel/ Array

+ −

Indicator LED

Plug battery in before commissioning

Mains supply input
L - Live
SL - Switched Live
E - Earth
N - Neutral

L
SL
E
N

LK2
LK1

LED OUTPUT CONFIGURATION PINS ON INNER COVER.

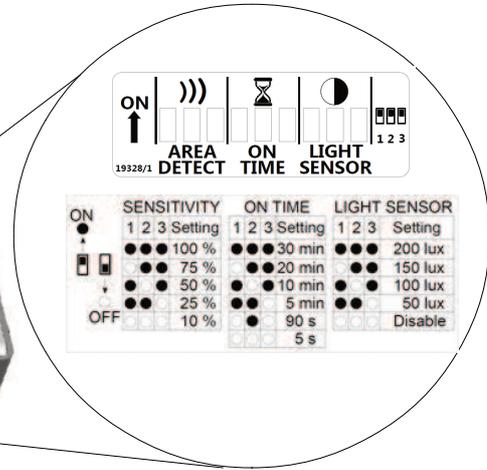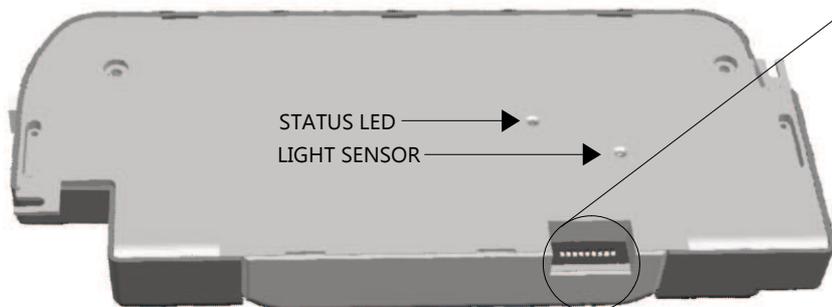## Configuration settings for Standard variants

Take care to ensure the output is configured correctly for the application. Spare selection jumpers are available in packs of 100 pieces from your supplier.

LK2 is used to adjust the output current to the percentage level shown, if required.

LK1 selects the lower output current with jumper fitted and higher output current with jumper removed. (Currents are shown for 700/1050mA model as an example).

LK2	Iout
	100%
	90%
	80%
	75%

LK1	Iout
	700mA
	1050mA

Microwave sensor location & settings. (If fitted)

STATUS LED
LIGHT SENSOR

ON ↑ 19328/1 |))) AREA DETECT | ⏳ ON TIME | ◑ LIGHT SENSOR | 1 2 3

ON	SENSITIVITY 1 2 3	Setting	ON TIME 1 2 3	Setting	LIGHT SENSOR 1 2 3	Setting
	●●●	100 %	●●●	30 min	●●●	200 lux
	●●○	75 %	●●○	20 min	●●○	150 lux
	●○●	50 %	○●●	10 min	○●●	100 lux
	●○○	25 %	●●○	5 min	●●○	50 lux
OFF	○○●	10 %	●●○	90 s	○○○	Disable
				5 s		

Status LED shows the following conditions:
- LED Red - Lamp Off/ Presence not detected.
- LED Green - Lamp On/ Presence detected.

Area Detect/ Sensitivity:
Refers to the typical detection range sensitivity based on an average size person moving at a speed of 0.1-1m/sec.
- 100% - up to 6m radius
- 75% - up to 5m radius
- 50% - up to 4m radius
- 25% - up to 3m radius
- 10% - up to 2m radius

On Time:
Refers to the time period the lamp remains on after no motion is detected. Note that after the light switches off, it takes approximately 3 seconds before the sensor starts detecting motion again.
- 30 minutes
- 20 minutes
- 10 minutes
- 5 minutes
- 90 seconds
- 5 seconds

Light Sensor:
This can be configured to only allow the lamp to illuminate below a defined ambient brightness. Settings are typical and as follows:
- 200 lux
- 150 lux
- 100 lux
- 50 lux
- Disable*
*When set, the light sensor will switch on the lamp regardless of ambient light levels.