

CHANNEL

SAFETY SYSTEMS

Conversion Pack for LED Panels



Emergency lighting conversion kits from Channel Safety Systems

CHANNEL SAFETY SYSTEMS

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INSTRUCTION MANUAL

INSTALLATION

This fitting must be installed by a competent person in accordance with the current building and IEE wiring regulations.

The installer and/or user of this product are responsible to ensure this fitting is fit for the purpose for which it has been used.

Channel Safety Systems do not accept any liability for loss, damage or premature failure resulting from inappropriate use. If you are in any doubt please contact us.

Prior to installation ensure that the mains supply has been isolated and necessary safety precautions have been taken.

Do not flash or high voltage test (Megger)

This unit is suitable for indoor use only.

Do not cover the fitting with any insulating materials; ensure adequate air flow around the fitting.

This product is designed for permanent connection to fixed wiring; the circuit should be protected with the appropriate MCB or fuse.

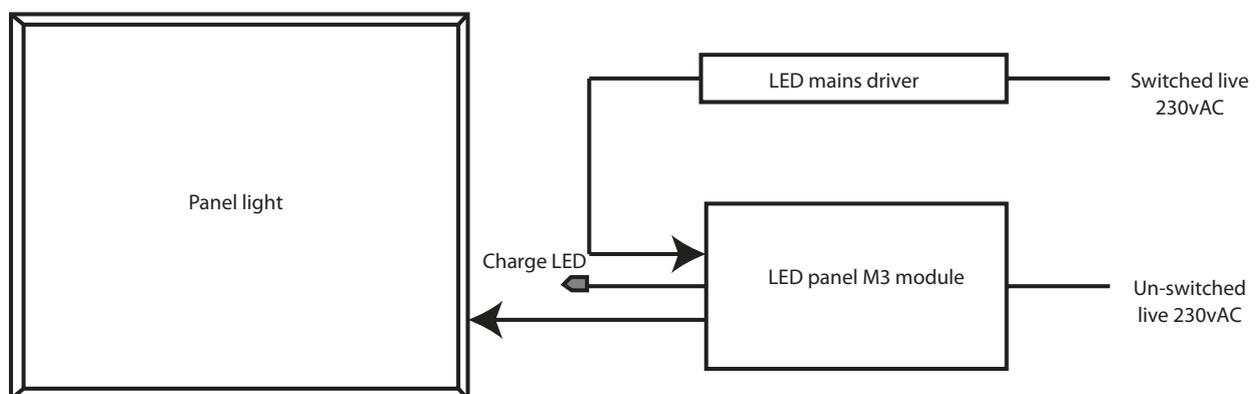
All necessary tests should be carried out as stipulated in local wiring regulations.

DANGER! Please note that there are two live supplies to the converted fitting, switched and permanent, you must check both are correctly isolated prior to commencing any work on the unit.

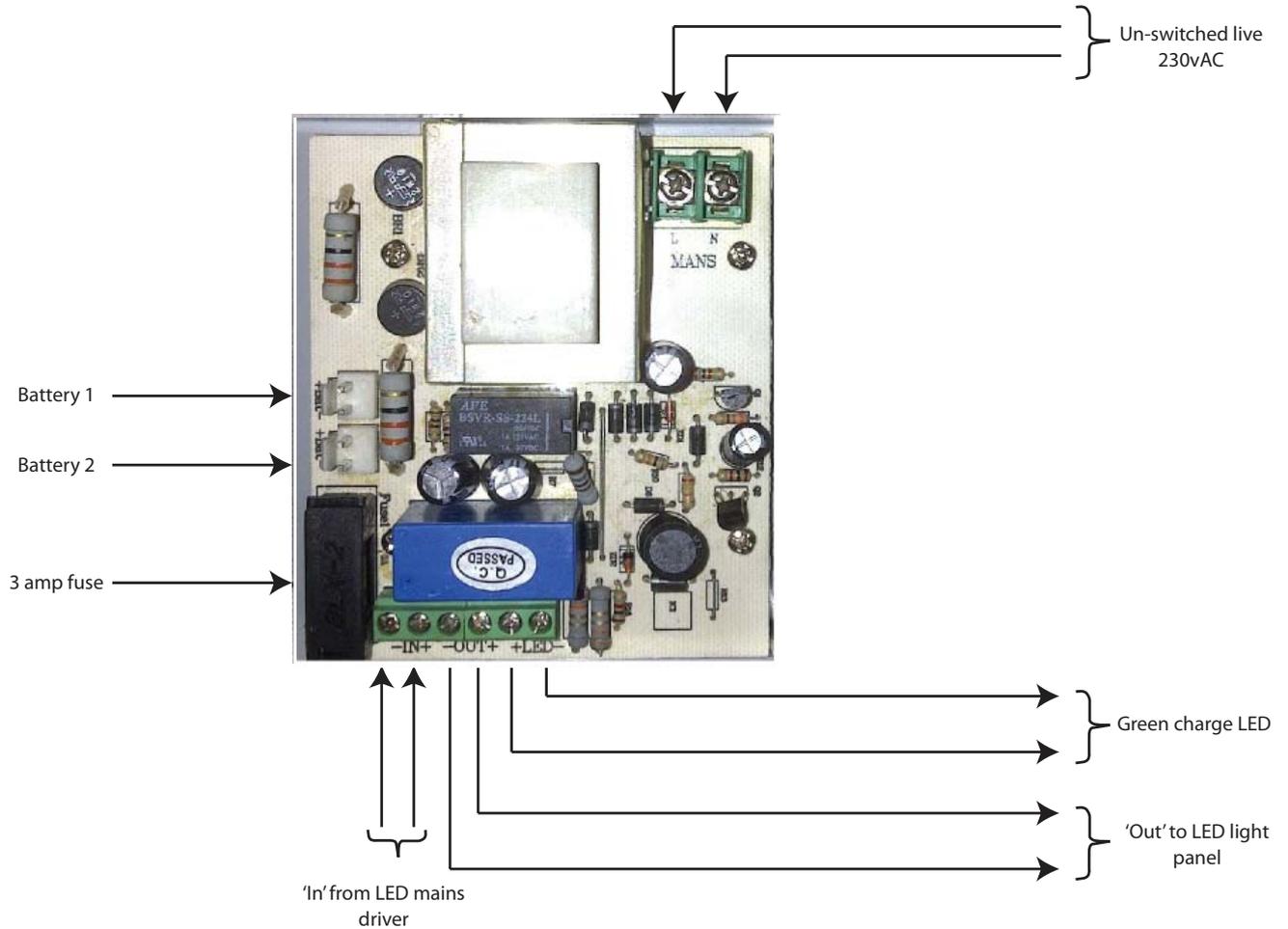
This emergency pack is designed for use with appropriate LED panel lights.

1. Prior to installation ensure that the mains supply has been isolated and necessary safety precautions have been taken
2. Site the emergency pack within one metre of the luminaire to be converted
3. Connect the un-switched live & neutral supply to the emergency module
4. Connect a switched supply to the LED panel light mains 'driver'
5. Plug the mains driver into the input lead on the emergency module. Plug the output lead from the module into the LED panel light. *
6. Fit the green LED charge indicator adjacent to the LED panel light. This should be visible at all times.
7. Should non-maintained operation be required, do not install the switched supply to the LED panel light mains 'driver'.
8. Ensure the twin battery packs are plugged into the emergency PCB.
9. Check connections & restore the mains supply.
 - > Ensure the green charge LED is illuminated.
 - > Check mains operation of the LED panel light
 - > Charge the unit for 24 hours and check the emergency operation & duration.

* The unit is supplied with two types of connector and a universal two pin connector. Should you wish to use the universal connector you will need to remove the existing connectors and replace them with the universal type.



INTERNAL CONNECTIONS



Operation checks

Carry out the daily, monthly and annual checks as required by the relevant emergency lighting standards.

Important notes

The ballast and control gear must be operated only within the enclosure supplied. The gear must not be operated outside of the enclosure.

The battery changing circuit and DC ballast are separated from the mains by at least basic (single layer) insulation.

When energised by a constant mains supply, the battery will be constantly charged whether or not the lamp is illuminated. On failure of the constant mains supply, the fitting will switch automatically using transistorised switching from battery charging to battery discharge powering the lamp whether or not the lamp was illuminated before the power failure. Both the mains and battery supplies incorporate fuse protection, see fitting for location and rating.

If battery short circuits on battery terminals then the fuse needs to be replaced before recharging.

Ballast is proofed against polarity reversal.

REPLACEMENT

Max load 48 watts.

Replacement battery type

19.2v 1500M Ah Ni-Cd (2 x 9.6v packs)

Battery replacement

If after routine operation check, the lamp does not remain lit for the three hour period, a new battery pack maybe required.

1. Switch off the electricity at the mains
2. Allow batteries to fully discharge then reconnect to supply and allow to charge for 24 hours
3. Test again for 3 hours, if light does not remain lit, change the battery pack as follows
4. Isolate the mains supply to the unit
5. Remove the cover of the emergency pack
6. Unplug the battery leads from the circuit board
7. Remove the battery packs
8. Write current date on emergency pack
9. Fit new battery packs, plugging into circuit board
10. Replace cover
11. Restore power and allow to charge for 24 hours
12. Perform operation check and update test records

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