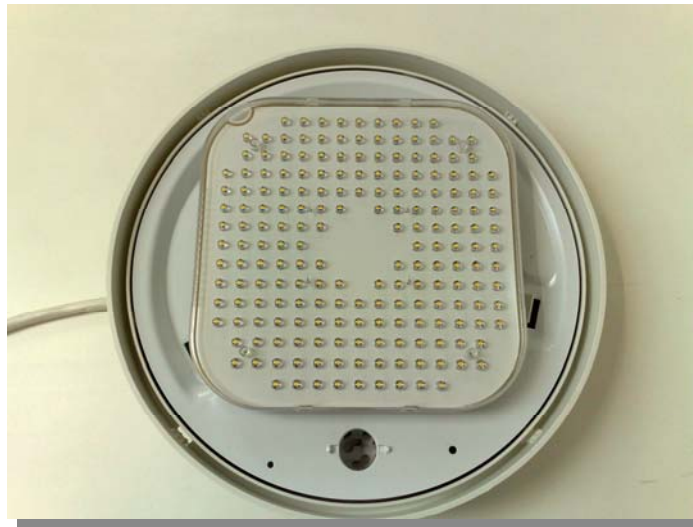


Save It Easy[®] LED Replacement For 2D



Installation instructions

Version 1.6



Energy Conservation Solutions Limited

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IMPORTANT NOTICE

Note - For emergency units the emergency version must be used.

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This document is intended as a general guide to be used by suitably qualified persons who conduct the installation work in compliance with all appropriate industry requirements and guidelines. Product warranties are only valid where the installation has been carried out in compliance with this installation guide.

Where individual sites have specific requirements with regard to installation or health and safety procedures, these should be taken into consideration. No part of this document may be reproduced or transmitted in any form by any means without the express written permission of ECSL.

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It is therefore important that, prior to the installation of a retrofit product, the customer and/or installer have satisfied themselves that the light levels and light quality from the existing installation are appropriate for the use to which the building is put and that the lighting scheme complies with the appropriate health and safety legislation.

ELECTRICAL SAFETY

Prior to installation each luminaire must be isolated from the mains supply in one of the following two ways before commencing work:

In the event that any wiring work is required, isolate via mains distribution board.

This can be achieved by switching the circuit breakers off or removing the fuses as appropriate.

In the event that no wiring work is required, switch the lights off and, if possible, remove the fuse in the luminaire

Isolation of the light switch is normally sufficient when retrofitting the Save It Easy® product into standard switchstart battens and luminaires (apart from the 3 and 4 lamp 600mm x 600mm modular fittings), provided that steps are taken to prevent inadvertent switching on during the installation.

In the event of doubt, please consult your technician before proceeding. All work should be carried out by a competent trained person.

ELECTRICAL COMPLIANCE

It is the responsibility of the installer to comply with current legislation regarding electrical works.

Where modifications are made to the luminaire it should be clearly labelled as having been modified and should indicate which organisation should be contacted in the event of malfunction or operational queries.

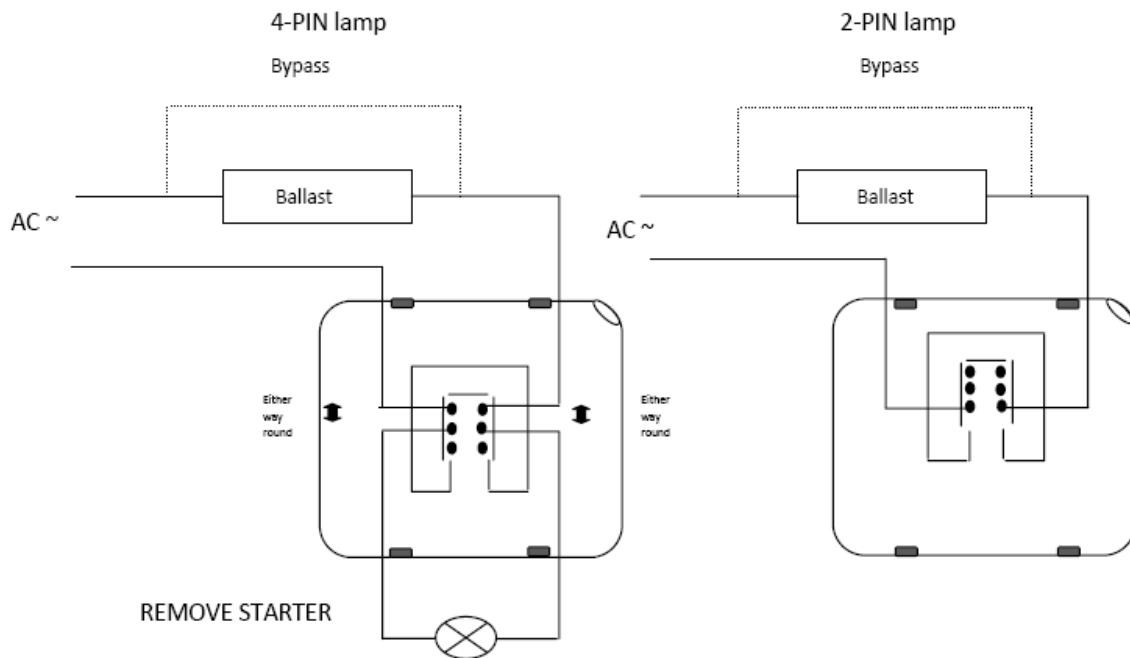
Switch Start Fittings

1. Isolate the fitting.
2. Remove the cover.
3. Remove the 2D lamp (Gloves may be required).
4. Remove the starter.
5. If necessary bypass the ballast. This can be done by cutting connecting the live entering and the live exiting the ballast together.
6. Insert the LED replacement lamp.

7. Replace any covers.
8. Restore power to the fitting and test.

High Frequency Fittings

1. Follow steps 1-3 as in the Switch Start instruction.
2. Remove the belly plate.
3. Cut and connect the live entering and a lamp holder feed together.
4. Cut and connect the neutral entering and a lamp holder feed together.
5. Then cut the remaining 2 wires exiting the ballast and block off separately.
6. The ballast can then be removed if you wish for recycling.
7. Reinstall the belly plate.
8. Follow steps 6-8 as above



Emergency 2D LED Replacement

Emergency Switch Start Fittings

1. Isolate the fitting.
2. Remove the cover.
3. Remove the 2D lamp (Gloves may be required).
4. Remove the starter.
5. Remove the belly plate.
6. If necessary bypass the ballast. This can be done by cutting connecting the live entering and the live exiting the ballast together.
7. Supply one pin with the live from the ballast.
8. Supply the other pin with a neutral.
9. Fix the new inverter (XY3) to a suitable space within the fitting, if necessary remove the original ballast from the fitting and wire as in part 6.
10. Feed the new inverter with a live and neutral as shown on the inverter diagram. These can be taken from the same feeds as the lamp holder.
11. Insert the Orange or Brown from the Green LED into the 2nd output down on the inverter.
12. Insert the Pink or Blue from the green LED into the 3rd output down on the inverter.
13. Insert the Red cable on the interface (2DRE) lead into the 1st output on the inverter.
14. Insert the Black cable on the interface lead into the 4th output down on the inverter.
15. Install the battery pack and connect to the inverter.
16. Refit the belly plate.
17. Insert the LED replacement lamp.
18. Connect the interface cable to the slot on the side of the LED lamp.
19. Replace any covers.
20. Restore power to the fitting and test.
21. If necessary undertake a drop test once the battery pack has had enough charge time.

Emergency High Frequency

9. Follow steps 1-3 as in the Emergency Switch Start fittings.
10. Remove the belly plate.
11. Cut and connect the live entering and a lamp holder feed together.
12. Cut and connect the neutral entering and a lamp holder feed together.
13. Then cut the remaining 2 wires exiting the ballast and block off separately.
14. The ballast can then be removed if you wish for recycling.
15. Follow the instruction for Emergency Switchstart fittings parts 9 – 21

WARRANTY

Product Warranty

These units are produced to precise manufacturing tolerances, with every unit undergoing factory test prior to dispatch. Please note that an excess of LED have been used and the warranty is only effective if more than 10 individual LED's have failed. Product, design life is in excess of 50,000 hours with all units warranted for 5 years from purchase, irrespective of intensity of use but must be in accordance to our installation instructions and the voltage marked on the product. Any units perceived to be faulty should be returned and will be replaced if tests show there is a manufacturing fault. Claims for consequential loss are not covered by this warranty. This warranty covers failure due to faulty manufacturing and covers complete unit failure (lamp non illuminated, flashing, flickering) and also covers failure of individual LED's of which there must be **at least** 10 or more (>5%) **non illuminating** to claim under this warranty.

WARRANTY PROCEDURES

Product:

The user should undertake a simple check prior to contacting Energys (since it is much more likely to be a lamp failure or a fuse failure).

Remove the lamp and try with a new (or different) lamp to check the supply is working. If the unit is still not operating and there is power to the lamp the problem should be notified to Energys staff on telephone 01306 621546 or e-mail info@ecsl.uk.com with description of failure, how many failed, total number installed, when/how did they fail, type of fitting, environmental considerations, switching cycles etc. It will be tested and if found to have a manufacturing fault either refunded or replaced.

Our address and phone number

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