



Installation Instructions

ELEDD MIDI 55

9005333, 9005334, 9005335, 9005336, 9005342, 9005344
9005346, 9005348, 9005358, 9005360, 9005362, 9005364
9005341, 9005343, 9005345, 9005347
9005357, 9005359, 9005361, 9005363

ELEDD MIDI 200

9005337, 9005338, 9005339, 9005340, 9005350, 9005352
9005354, 9005356, 9005366, 9005368, 9005370, 9005372
9005349, 9005351, 9005353, 9005355
9005365, 9005367, 9005369, 9005371

ELEDD MIDI 55 REMOTE

9005373, 9005374, 9005375, 9005376

ELEDD MIDI 200 REMOTE

9005377, 9005378, 9005379, 9005380

GENERAL DESCRIPTION

The ELEDD MIDI 55 and ELEDD MIDI 200 are emergency LED drivers designed to enable conversion of general lighting for emergency operation. Each variant has controlled current outputs suitable for driving multiple power LED's or multi-chip LED array with forward voltages of 6V to 55V (MIDI 55), or 50V to 200V (MIDI 200), and built in adaptability that allows for optimum output current based on the forward voltage of specific light engines.

LED INDICATOR

A range of indicator LEDs are available in diffused or clear high intensity, with or without a fitted rubber bezel or plastic clip, and with various lead lengths.

For non-AutoTest modules, use a standard LED and connect orange to IND+, and pink to IND-. For AutoTest with DALI (/D1) modules, use a bi-colour LED and connect red to IND+ and green to IND-.

TEST SWITCH

Modules have a facility for connecting a low voltage test switch to test emergency operation if required. The switch should be a momentary push-button with N/O contacts, minimum rating 10Vdc, 30mA.

FUSES

The supply is isolated with an internal, non-replaceable 630mA fuse to protect the system integrity against total failure of any unit. The module also includes a non-replaceable 2A battery fuse.

ELECTRICAL INSTALLATION

Modules comply with the EMC directive in both modes of operation, mains and emergency. A fused terminal block should be situated so that incoming mains connections are kept short. The assembled luminaire should be energised for a minimum of 24 hours to fully charge the batteries. The un-switched live supply should be left undisturbed during the commissioning period.

If a switched live supply is used, ensure that it is on the same phase as the permanent live supply.

Connect the battery before switching on the permanent mains supply.

CONNECTIONS / WIRING

Please refer to the product label.

Example wiring diagrams are available on request.

CONVERSION NOTES

Each conversion type must be backed up with a technical file showing that EMC, harmonics and temperature requirements are met. It should also include the layout of the conversion and wire routing. Switched and un-switched mains terminations within the luminaire should be clearly identified.

When mounting the module, the location should allow for some slack in the LED harness.

Ensure that the finished converted luminaire operates within the module and battery temperature ratings, whilst also ensuring that the original luminaire components are operating within their temperature ratings.

Correct battery polarity must be observed at all times. Permanent damage to the module will occur if battery connections are reversed.

Before applying power to the luminaire, an insulation test must be carried out between the L & N connected together and Earth.

Check the LED charging indicator is on with the un-switched supply present. On AutoTest with DALI (/D1) variants, this will be a 0.5Hz flashing green.

After a few minutes, remove the un-switched supply and ensure the power LED(s) operate(s) in emergency mode. If the luminaire is to be installed at a later date, disconnect the battery.

The luminaire must be identified with the company responsible for the conversion, and the battery marked with the date of commissioning.

The module does not rely upon the luminaire enclosure for protection against accidental contact with live parts.

OPERATION

A User Guide describing operation and functionality of Mackwell emergency lighting luminaires and control gear is available. Document number 69550.

MAINTENANCE

The emergency system should be checked regularly in accordance to local regulations.

WARRANTY

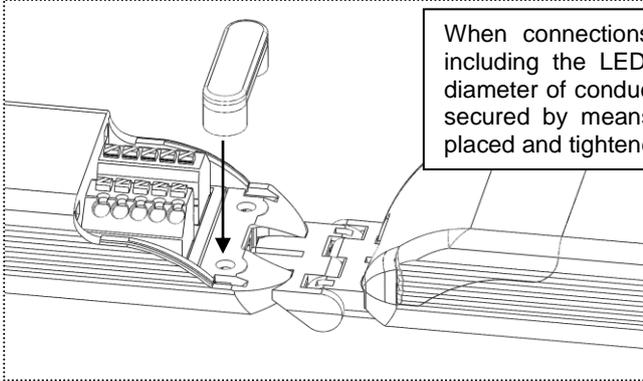
This product is guaranteed for three years and covers faulty workmanship and materials. The guarantee on batteries is one year. This "Return to Base" warranty requires that the product is used within the terms and conditions stated above, in our literature and on our website. Products returned to us under warranty must be carriage paid. Mackwell Electronics Ltd. accept no liability for costs incurred.

Installation Instructions

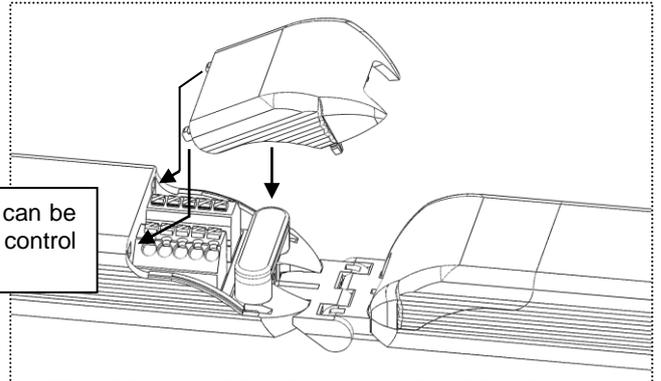
ASSEMBLY OF REMOTE VARIANTS

9005373, 9005374, 9005375, 9005376, 9005377, 9005378, 9005379, 9005380

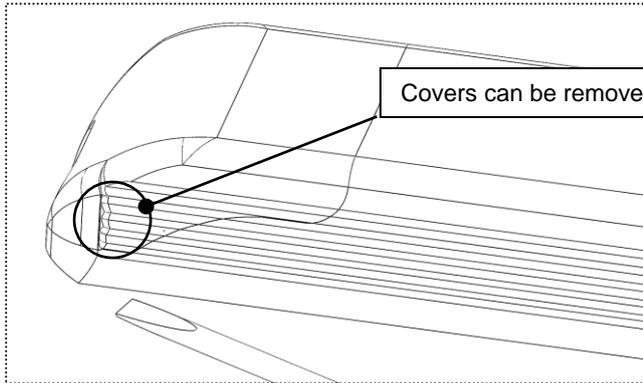
Remote Kit variants including a battery box, require fitment of supplied cable clamps and covers at both ends of the conversion module to ensure electrical safety.



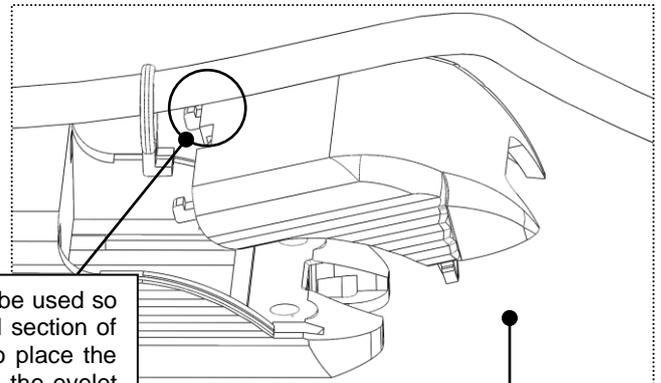
When connections have been made to the terminals of the control gear, including the LED lamphead, select the cable clamps to use based on the diameter of conductors and wiring looms in use. The supplied cable clamps are secured by means of the supplied No.4 x $\frac{5}{16}$ pozi-pan self-tapping screws, placed and tightened to 0.6Nm from the underside of the control gear.



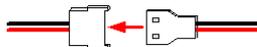
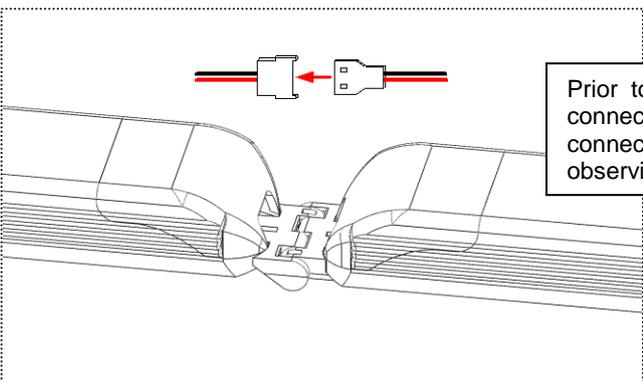
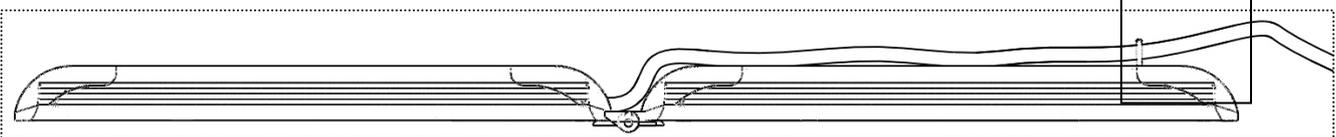
When cable clamps are secured, the end covers can be fitted into place by hooking just underneath the control gear lid, and snapping down.



Covers can be removed by prising apart from the split line with a slotted screwdriver.



If installing into a solid ceiling, the supplied loom clip should be used so that the luminaire can be removed for maintenance. A small section of the end cover located here must be snipped out in order to place the clip into position. The LED loom should then be fed through the eyelet and held in place by hand before the end cover is fitted.



Prior to applying mains to the conversion module, make the final connection between the conversion module and the battery box. The connectors are only capable of mating with the correct polarity, but observing this beforehand will ensure a connection is made easily.