



The EM3H Recessed LED exit sign utilises adjustable arms so that the main body can be passed through a suitable cut-out in the supporting surface and the arms can be adjusted to lock the unit against the plasterboard, T-bar or tile. The legends are fitted via four thumb screws and can therefore be easily changed when the luminaire is installed.

SPECIFICATION

Supply Voltage: 220-240V A.C, 50Hz

Supply Current: <32mA

Nominal Power: 4.5W

IP Rating: IP20

Insulation Class: Class I

Battery: 4.8V 0.9Ah NiCd

INSTALLATION

- Undo the two screws and remove the décor plate.
- Pass the luminaire through the cut out and adjust the arms until the luminaire is securely located in the supporting ceiling.
- Feed the supply cable through the top hole and connect to the terminal block. L is for switched maintained supply if required. L1, N and E are for the permanent supply to charge the integral battery.
- Insert the legend blade through the décor plate and fix with the two screws provided and replace the décor plate.

OPERATION

The EM3H Recessed LED luminaire should be connected to the mains supply for a minimum of 24 hours before operation as the batteries need to be fully charged to provide their full rated duration. (DALI / Self-test luminaires have a self-commissioning mode which charges the battery, does a full duration test and then re-charges the battery)

EMERGENCY OPERATION

NON-MAINTAINED - LEDs normally off and battery charging (LED indicator 'om') when the A.C. supply is healthy. Solid state circuitry automatically switches the LEDs on when the A.C. supply is interrupted.

MAINTAINED - The LEDs are normally on (may be switched using switched supply). The battery is charging (LED indicator 'on'). LEDs will switch on or remain on if A.C. supply is interrupted.

MONITORING - Green LED indicator normally continuously 'on'. Indicator goes out if A.C. supply or charger fails.

FAULT FINDING AND CORRECTIVE ACTION

MONITORING LED NOT ILLUMINATED - A.C. supply is unhealthy. Battery not connected. Charger failed.

UNIT NOT MEETING REQUIRED EMERGENCY PERIOD - May need cycling: discharge then recharge for a full 24 hours. Retest luminaire. Battery pack may need replacing if emergency duration is still not met.

LEDS NOT FULLY ILLUMINATED - If the light output is an abnormally low level, either the battery pack or (less likely) the printed circuit board needs replacing.

RECOMMENDED ROUTINE TEST PROCEDURE

The following test is designed to ensure the continued protection of both the building and its occupants. Given that the normal lighting supply may fail shortly after a period of testing, all tests should, whenever possible, be undertaken during daylight hours, when there is less risk.

ONCE A DAY - Visual inspection of battery charge LED

ONCE A MONTH - Each unit should be energised from its battery for about 15 minutes by simulation of a failure of the normal lighting supply to ensure the light source operates in the emergency condition.

ONCE A YEAR - Each unit should be energised from its battery for the full rated duration. Inspect the LEDs and if any of them have failed the whole unit will need to be replaced. The LED's will probably continue to operate for approximately 10 years but batteries will require replacement every five years.

NB: Failure to achieve rated duration after the corresponding recharge period indicates that the batteries have reached the end of their useful life and they should be replaced immediately. Batteries have a typical life expectancy of four to five years. Old batteries should be handled by specialist waste disposal experts, and under no circumstances should they be pierced or incinerated.

DALI / SELF-TEST LUMINAIRES ONLY

The luminaire will adopt a self-test (automatic test) mode if it is not connected to a DALI bus, or the DALI communication is missing. On completion of the self-commissioning check, the self-test program starts with the first function and duration tests. These tests will be carried out after randomly generated delay times. The initial function test randomly will be generated between 0-7 days, and the initial duration test randomly generated between 4-52 weeks. Subsequent function and duration tests will randomly occur at intervals of 7 days and 52 weeks respectively. DALI/Self-test luminaires respond to DALI commands from a suitable control unit. These commands can be used to initiate function and duration tests at prescribed times. The status flags for the luminaire are set after a test, for reporting and logging of the results.

Green LED	Permanently on	System OK / mains operation mode
	Slow flash	Duration test / Commissioning
	Fast Flash	Function test
Red LED	Permanently on	LED luminaire fault
	Slow flash	Battery / Test failure
	Fast Flash	Battery Charging Failure

Slow flash - a flash every 2 seconds. **Fast flash** - a flash every 0.5 seconds

NB: Product must be recycled at the end of its life. Batteries should be removed and put in an accredited recycling centre. Light sources should be removed and sent to a RECOLITE centre. The luminaire enclosure should be sent to a LUMICOM centre. Do not incinerate or send to land fill.

IMPORTANT WARNINGS

Do not install the luminaire in areas without sufficient air circulation. The manufacturer cannot be considered liable for any damage caused by inappropriate use of the luminaire other than its manufactured purpose.

Luminaires must be installed by a qualified registered electrician only. Any misuse of the luminaire when power is activated may cause the risk of an electric shock.

The manufacturer does not accept any responsibility of any issues resulting from the non-compliance of the recommendations included in this instruction document. These instructions are issued as a guide to assist the installer to satisfactory conclusion.

The manufacturer reserves the right to change the design of this product without prior notice.

WASTE DIRECTIVE

The European Directive 2002/96/EC on waste electrical and electronic equipment requires that electric and electronic devices must not be disposed of in the normal household waste. For correct disposal, please use authorized waste disposal facilities or return to the distributor at the date a new lighting fitting is purchased. Lamps, if disposed together with the lighting fitting, should not be broken up as they contain pollutants, which are harmful to the environment. Unauthorized disposal of the foregoing waste material is punishable by law.

