

EMERGENCY LUMINAIRE INSTRUCTIONS

GENERAL INSTRUCTIONS

Follow these instructions carefully to ensure safe and reliable operation and retain this leaflet for future reference. Luminaires with an IP rating of IP54 or above are suitable for exterior use. For the purpose of EN 60598.2.22:1999, this fitting is classified as being ‘without rest mode’.

Please contact the supplier if this luminaire is to be installed where the operating temperature range exceeds 5°C to 25°C, or when the relative humidity normally exceeds 50% and in environments with unusually high contamination or corrosive elements or gasses.

If this luminaire incorporates Nickel Metal Hydride Batteries they should be disconnected whenever the mains is interrupted for a period of longer than 7 days

Throughout this leaflet the following wiring colour coding is used:

- LIVE (L) – BROWN OR RED
- NEUTRAL (N) – BLUE OR BLACK
- EARTH  – GREEN/YELLOW OR BARE CONDUCTOR

LAMP	CELLS	NOMINAL LUMENS	
		Clear diffuser	Opal diffuser
6 Watt	2 x 4 Ah	20	
6 Watt	3 x 4 Ah	120	
8 Watt	2 x 4 Ah	40	18
8 Watt	3 x 1.5 Ah	58	
8 Watt	3 x 4 Ah	120	
2 x 8 Watt	3 x 4 Ah	120	
8W Exit (downlighter panel)	2 x 4 Ah	15	
24 Watt 'F' lamp	3 x 4 Ah	50	

Luminaire Type/Ref.....Date of Installation.....Location.....

MON/H	TEST	FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR		FIFTH YEAR	
		SIG	DATE	SIG	DATE	SIG	DATE	SIG	DATE	SIG	DATE
1	FUNCTIONAL										
2	FUNCTIONAL										
3	FUNCTIONAL										
4	FUNCTIONAL										
5	FUNCTIONAL										
6	FUNCTIONAL										
7	FUNCTIONAL										
8	FUNCTIONAL										
9	FUNCTIONAL										
10	FUNCTIONAL										
11	FUNCTIONAL										
12	DURATION	FULL		FULL		FULL		FULL		FULL	

MAINTAINED OPERATION

Both Mains Supplies Healthy

Lamp(s) operate from the normal mains supply that can be switched and an additional unswitched mains supply charges the battery pack (charge LED lights to indicate the battery pack is charging).
Unswitched or both Mains Supply Failures (or optional push to test switch operated)
Lamp(s) comes on in emergency and the charge LED goes out.

NON-MAINTAINED OPERATION

Unswitched Supply Healthy

Lamp(s) not illuminated (charge LED lights to indicate the battery pack is charging).

Unswitched Supply Failed (or push to test switch operated)

Lamp(s) operate in emergency and the charge LED goes out.

RECOMMENDED ROUTINE TEST PROCEDURE

The following test routine from EN50172 is designed to ensure continued protection of your premises and occupants. Because of the possibility of a failure of the normal lighting supply occurring shortly after a period of testing, all tests should (wherever possible), be undertaken at a time of least risk or during daylight hours.

Normal mains supplies should be present before starting these tests and any lamps that are showing signs of ageing should be replaced prior to continuing with the test.

To test for correct emergency operation, fail the unswitched mains supply, where a switched supply is present this should also be isolated. The lamp should then be illuminated from the Emergency Control Unit.

Restoring the unswitched supply will restore the luminaire to its previous operational state.

If either test indicates a fault condition, follow the fault finding guide instructions on this sheet.

Once a day

Visually inspect the charge indicator is illuminated.

Once a month

Each unit should be energised from its battery by simulation of a failure at the normal supply for a period sufficient to inspect each lamp is illuminated. At the end of the test the supply should be restored and the charge indicator inspected.

Yearly

Each unit should be as per monthly test but for its rated duration. The date of the test and its results shall be recorded.

SAFETY

Follow the appropriate national wiring regulations; if in doubt consult a qualified electrician.

Disconnect the mains supplies before removing the diffuser or panels prior to carrying out any maintenance or replacements of lamp(s).

This product must not be modified in any way, as this will negate any Safety Mark or approvals, and may render the product unsafe. The product must be installed in accordance with these instructions.

Suitable for use in ambient temperatures over the range 5°C to 25°C.

The luminaire should not be covered with any heat insulating material and the airflow around it should not be restricted. Note any minimum distances to adjacent surfaces.

The luminaire should be connected into the lighting supply circuit, or should be on a dedicated circuit, fused at 5A.

To ensure good electrical contact, terminals must be screwed firmly onto the copper conductors and tinned wire strand cables should be avoided.

INSTALLATION INSTRUCTIONS

1. Remove the cover from emergency luminaire.
2. Connect the mains cable(s), which should be a maximum of 1mm² solid core.

The supply for a non-maintained emergency circuit must be unswitched and is connected to the unswitched input.

The supply to a non-emergency circuit can be switched and is connected to the switched input.

If a single unswitched supply is used for both emergency and normal use a link should be connected between the unswitched supply and switched supply terminals.

3. Mark the battery pack with date of installation.
4. Connect the battery to the module.
5. Replace the emergency luminaire cover or diffuser.

For testing purposes a Fused Spur or Keyswitch should be included in the unswitched supply.

WARNING

Failure to comply with these installation instructions may result in irreparable damage to the emergency control unit or luminaire.

DO NOT INSULATION TEST the lighting system with the emergency control units installed.

FAULT FINDING

1. Charge indicator LED not illuminated

- a) Check the battery is connected to the emergency control unit.
- b) A.C. unswitched supply interrupted – restore supply.
- c) Battery fault causing charge circuit to shut down (self-resetting) – replace the battery and check for correct ambient temperature.
- d) Emergency control unit fault – contact your supplier.

2. Unit not meeting required emergency duration period

- a) Unit operating outside temperature limits – check ambient temperature.
- b) Unit may need cycle discharge – recharge for 24 hours then re-test. If the duration has improved repeat the procedure until full duration is achieved or the battery pack needs replacing – contact your supplier.

3. Lamp not fully illuminated

- a) The output from lamp decreases with time, so to ensure sufficient light output, lamps should be replaced at set intervals (not when they fail).
See the lamp manufacturers technical details for the expected nominal lamp life.

4. No light output at all

- a) Check the charge LED is lit when the A.C unswitched mains supply is on.
- b) Check the lamp and ensure it is correctly located in the lamp holder(s).
- c) Check the lamp starter (where fitted).
- d) Check all wiring and lamp connections.
- e) Check the battery pack on load (discharge condition) using a voltmeter. The nominal battery voltage is shown on the battery label.

DISPOSAL

The disposal of large quantities of electrical equipment (EEE) is subject to European, National and Local Authority regulations (WEEE).

Products displaying the ‘wheelie bin’  symbol indicate the product should not be disposed of in the normal waste stream.

ORIGINAL