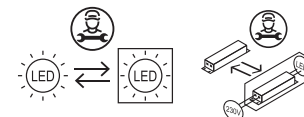


## WARNING

This product must be disconnected from the circuit if subjected to any high voltage or insulation resistance testing. Irreparable damage will occur if this instruction is not followed.  
Installing in areas where the temperature consistently drops below 0°C may shorten the battery life.  
The maximum constant ambient temperature at the point of installation should not exceed 450C.

## GENERAL

This product contains a light source of energy efficiency class C to Regulation (EU) No. 2019/2015.  
This product contains a replaceable LED light source and a control gear which can be replaced by a professional.



Clean the external surfaces with a damp cloth using a mild solution of detergent and warm water only, do not use aggressive cleaning products or solvents which may damage the product.  
Do not use any source of high-pressure washers to maintain or clean this luminaire.  
This product is non-dimmable.  
This product should be dismantled for disposal when it reaches the end of its life. Please see website for dismantling instructions.  
The battery in this product is Lithium Ion and must be disposed of correctly. Please contact the local authorities for the disposal of this toxic waste.

## WARRANTY

This product has a warranty of 5 years (including battery) from date of purchase. Failure to install this product in accordance with the current edition of the IEE Wiring Regulations (BS7671), improper use, or removal of the batch code will invalidate the warranty. If this product should fail within its warranty period, it should be returned to the place of purchase for a free of charge replacement. ML Accessories does not accept responsibility for any installation costs associated with the replacement product. Your statutory rights are not affected. ML Accessories reserve the right to alter product specification without prior notice.

## TESTING FOR EMERGENCY LUMINAIRES

Recommended routine test procedure in accordance with BS5266:

Daily check – check status of bi-colour LED indicator

Monthly functional test – the luminaire will perform this function without any action from the user.

Alternatively, simulate a mains supply failure for approx. 30 seconds by operation of key switch, switching off circuit breaker or using test button. Ensure normal supply is restored after test and check status of bi-colour LED indicator

Annual 3-hour duration test – the luminaire will perform this function without any action from the user.

Alternatively, simulate a mains supply failure for 3-hour continuous test by operation of key switch, switching off circuit breaker or using test button. Ensure normal supply is restored after test and check status of bi-colour LED indicator

If the luminaire fails any of the above tests, please contact a qualified electrician. Results should be recorded, even when obtained via the self-test function. See below for test record sheet

TEST RECORD SHEET											
INITIAL COMMISSIONING 3 HOUR TEST		SIGNED				DATE					
		FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR		FIFTH YEAR	
MONTH	TEST	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE
1	FUNCTIONAL										
2	FUNCTIONAL										
3	FUNCTIONAL										
4	FUNCTIONAL										
5	FUNCTIONAL										
6	FUNCTIONAL										
7	FUNCTIONAL										
8	FUNCTIONAL										
9	FUNCTIONAL										
10	FUNCTIONAL										
11	FUNCTIONAL										
12	3 HOUR										

Installed by:

Installation date:

Contact number:

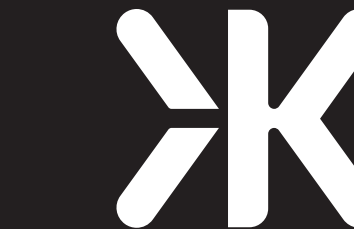


SUPPLIED BY:

**(UK) MANUFACTURER**  
**ML ACCESSORIES LTD, UNIT E CHILTERN PARK,**  
**BOSCOMBE ROAD, DUNSTABLE LU5 4LT,**  
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**DAIMLERSTRASSE 21-23,**  
**52531 ÜBACH-PALENBERG, GERMANY**  
**EMAIL: EPREL@GROUP.SLV.COM**

MADE IN CHINA



INSTALLATION & MAINTENANCE MANUAL

HEX5EM

SM\_OCT25\_V1

## GENERAL INSTRUCTIONS

These instructions should be read carefully and retained after installation by the end user for future reference and maintenance.

These instructions should be used to aid installation of the following products:  
**HEX5EM**

## SAFETY

- This product must be installed in accordance with the latest edition of the IEE Wiring Regulations (BS7671) and current Building Regulations. If in any doubt, consult a qualified electrician
- Please isolate mains prior to installation or maintenance
- Check the total load on the circuit (including when this luminaire is fitted) does not exceed the rating of the circuit cable, fuse or circuit breaker
- Please note the IP (Ingress Protection) rating of this product when deciding the location for installation
- This product is Class I and must be earthed
- This product is IP65 rated

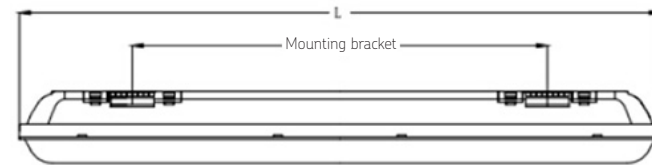
**Note:** This product is compatible with and incorporates the **MODEMKIT2** (Emergency kit). Should the emergency kit require replacing or for additional information, refer to MODEMKIT2 instruction manual. It is also compatible with **MODMWS** (microwave sensor – must be purchased separately if required)

## INSTALLATION

### Note:

If this product is being used in conjunction with an external PIR or sensor, please confirm with the manufacturer of the sensors that they are compatible with LED luminaires.

- Provide power to the required point of installation (refer to BS7671 for correct cabling methods). Suitable IP rated junction boxes should be used where required
- Using the mounting brackets as a template, mark the location for, and drill the fixing holes ensuring not to infringe with any gas/water pipes or electrical cables.



Product code	Type	Length (mm)	Length (feet)	Fixing centre (mm)
HEX5EM	230V	5ft	1565	1050

Fig. 1

- Secure the mounting brackets to the surface using suitable wall plugs and screws
- Align the fitting with the mounting brackets and clip into place
- Unfasten the clips on either side of the fitting (see Fig. 2)

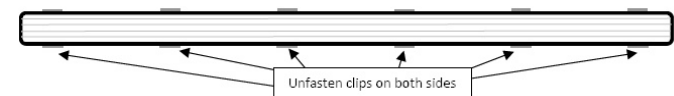


Fig. 2

- Remove the gear tray/diffuser module – make sure hooks/straps in place for supporting it
- This product incorporates a flexible supply cable which allows mains supply entry from either side of fitting or centre. Use the compression gland provided for IP65 protection (round mains supply cable must be used for ensuring a tight seal when gland is tightened. The use of flat cable will cause water ingress and will not meet IP65).
- Fix the connector block onto required mounting point. Connect to the mains supply ensuring the correct polarity is observed: L – Live, L1 – Emergency Live (brown), E – Earth (green/yellow), N – Neutral (blue) (see Fig. 2). Two cables can be inserted into the push-fit terminal block to achieve loop-in/loop out wiring (see Fig. 3)
- Check earth wire is connected to earthing point on the gear tray



Fig. 3

- On the MODEMKIT2, set DIP switch to self or manual test position. If set to manual test position, self-test functionality detailed below will be disabled and emergency tests will need doing manually. In this case all testing must be logged within test record sheet

- Ensure that the battery is connected by opening the emergency module pack and the battery connector on the PCB
- Check LED indicator is connected, mounted on designated holder located on the gear tray
- Replace the gear tray and diffuser ensuring all clips are fastened securely
- Switch on and check for correct operation

## SELF-TEST FUNCTION

### Commissioning

- Upon power up, the green LED indicator will start flashing 1 x second to indicate that there is a pending duration test
- A functional test will occur at 5 minutes after commissioning to allow 5 minutes for battery charging to ensure there is some charge
- A duration test will occur at between 24 – 48 hours after comm
- Disconnecting the un-switched supply (Live) and the battery resets the emergency module, clears all faults. If a reset is carried out, remember to reconnect battery and then the un-switched supply
- If the un-switched supply of an emergency lighting circuit is switched ON/OFF twice within 5 seconds, the schedule for all the emergency units in the circuit will reset to the current time

### Duration Testing (3 hours)

- An automatic duration test will occur between 24–48 hours after commissioning to allow for battery charging
- An automatic duration test will occur semi-annually or annually at a random point in the 52nd week of each year
- A duration test will occur at a random point between 0–24 hours after pressing the manual button for 5–10 seconds. Time will be added to allow the battery to charge if the battery has been charging for less than 24 hours
- A duration test may be delayed by other events, such as a power cut that interrupts the test or a lack of charging time to the battery. If this occurs, the green LED indicator will flash 1 x second to indicate there is a pending duration test and the emergency module has been rescheduled

- Any faults found in the duration testing will be reported via the LED indicator, as detailed below
- A functional test will not override any faults reported by a duration test. A full duration test or re-commissioning is required to clear any faults

### Functional Testing (<2 minutes)

- A short automatic functional test will occur every 7 days
- A manual functional test will start after pressing the manual test button to 1 – 2 seconds
- Any faults found in the functional testing will be reported by the LED indicator, as detailed below
- A functional test will not override any faults reported by a duration test. A full duration test or re-commissioning is required to clear any faults

### Manual Testing

- For a manual functional test, press the test button for 1–2 seconds. A manual functional test will last <2 minutes
- For a manual duration test, press the test button for 5–10 seconds. A manual duration test will occur at a random point between 0–24 hours after pressing the test button for 5–10 seconds. Time will be added to allow the battery to charge if the battery has been charging for less than 24 hours

### Pending Duration Testing

- A duration test may be delayed by other events, such as power cut that interrupts the test or charging period. If this occurs, the green LED indicator will flash to indicate there is a pending duration test and the emergency module has been rescheduled until charging is complete

### Lamp or Luminaire Fault

- Turn off the supply and replace or correct the fault with the lamp or luminaire, and then reconnect the supply
- Press the manual test button for 5–10 seconds. A manual duration test will occur at a random point between 24–48 hours later to allow the battery to charge fully
- If the battery and power have been disconnected, the EM kit will re-commission and automatically test the replacement

- A successful functional test will not override any faults reported by a duration test. A full duration test or re-commissioning is required to clear any faults

### Battery Fault

- Turn off the un-switched supply (Live) to the EM kit and replace the battery, then reconnect the supply
- If the fault was because the battery was not connected, the un-switched supply must be turned off when connecting the battery to clear the battery fault
- The EM kit will re-commission and automatically test the replacement between 24 – 48 hours after commissioning to allow for battery charging

### LED Indicator

- System status is indicated by a bi-colour indicator LED as detailed below

LED INDICATION	STATUS
Green permanently ON	System Healthy
Permanently OFF	Emergency mode: Mains failure or mains disconnected
Green Flash 1 x second	Duration Test Pending
Green Flash 2 x second	Duration Test Running
Green Fast Flash 4 x second	Functional Test Running
Red Permanently ON	Battery Charging Fault
Red Flash 2 x second	Battery Duration Fault
Red Flash 4 x second	Lamp or Luminaire Fault