

**These instructions are for guidance only
 Read these instructions fully before using the fitting.
 Retain these instructions for future reference.**

LIGHT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN

	ALL MODELS
Wattage	9W / 12W / 18W
Lumens	1000lm - 1900lm
Lumens per watt	105.55 lm/w
LED Life	40,000 hrs
LED Colour Temp	3000K, 4000K or 6500K
Voltage	220-240V AC
Operating Temp	-20° C to +45° C
CRI	>80
IP Rating	IP65
Dimmable	No
LED Beam Angle	120°
H x W x D	320 x 320 x 85mm
Guarantee	3 Years (Fitting) 2 Years (Battery)
Class	II

	BHMW3X3-CT BHMWEM3X3-CT
Sensor Type	Microwave
Sensor Angle	360° Ceiling Installation 150° Wall Installation
Sensor Delay (Time)	5secs-20mins
Sensor Lux	Daylight 2-50 lux
Sensor Rated Load	400W (Capacitive load) 800W (Resistive load)
Sensor Range	Ceiling Height 3m: 3-6m (radius) Wall Height 1.5-2m: 12-15m

	BHEM3X3-CT BHMWEM3X3-CT
Emergency Battery Life	>3 Hours
Emergency Battery Type	LiFePO4 (Replaceable)
Emergency Lighting Maintained	Maintained or Non-Maintained
Emergency Voltage	3.2V 1500mAh
Emergency Wattage	2.0W
Luminous Flux (Emergency Mode)	300lm

General safety instructions

- Ensure mains power is disconnected & switched off when installing the fitting.
- Never look directly into the LED light source. The light emitted can contain the colour blue.
- To clean: Ensure that the fitting is disconnected from the mains and cannot be unintentionally reconnected.
- Place only upon level and stable surfaces.
- Do not use in areas in which there is a danger of explosion.
- Do not use near flammable materials.
- Do not place in water or other liquids.
- Never operate with wet hands.
- Never cover the equipment.
- Never operate when the casing is open, or when the wiring casing is missing or damaged, or when the protective screen is defective.
- Never spray this unit, and never attempt to clean it with a steam pressure cleaner as this can damage the insulation and seals.
- Never attempt to repair this unit yourself. Repairs should only be carried out by a qualified electrician.
- If the supply cable is damaged, stop using the unit immediately & consult a qualified electrician.
- If diffuser is broken, stop using the unit immediately & consult a qualified electrician.

Recommendations

- Installation should be carried out in accordance with the latest IEE (BS7671) Regulations & the latest Buildings Regulations. Please consult a qualified electrician.
- Guidance on the installation of Emergency lighting in the UK is available from the BSI, regulation: BS 5266-1:2016.
- Please ensure the mains supply is switched OFF before installing and working on this fitting.
- This unit is Class II rated and earth is not required.
- To maintain the IP rating of the unit, a suitable gland should be used for the cable entry and/or fire retardant silicon sealant should be used to effectively seal the hole.
- Not suitable for use with dimmers.
- The fitting is suitable for use in ambient temperatures of -20 to +45 degrees C. If the fitting is installed in locations where the temperature may vary beyond these temperatures or reach these limits for prolonged periods, the battery life may be shortened and should be tested more regularly.
- High voltage insulation test equipment must not be used on this fitting and may cause irreparable damage.
- It is recommended that 100mm of air space is left around the unit.
- This unit has no replaceable parts.
- The battery must be charged for 24 hours before the fitting can be commissioned. (Emergency models only)

Manufacturer

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Please contact us if you any questions or queries regarding the product

Installation Instructions

1. Ensure the electrical supply is switched OFF before working on this fitting.
2. Remove the diffuser from the base by turning anti-clockwise and pulling away from the base.
3. Turn wingnut anti-clockwise to release the hinged LED tray.
4. Select a suitable cable entry point provided and prepare the holes in your mounting surface as appropriate for your fixings.
5. Pierce the cable grommet in the back of your fitting making a hole just large enough to make a tight fit around the incoming mains cable
6. Feed the supply cable into the luminaire through the cable entry hole, using the provided grommet to retain the IP rating of the fitting. If you have cut your own hole, a suitable grommet should be fitted and the hole should be sealed using fire retardant silicon sealant.
7. Secure the supply cable

8. Non-Maintained Operation: Fig 1

The fitting only illuminates in the event of a power failure. Supplied from a Permanent Live only. In the event of a power failure, the fitting fails over to the battery pack.

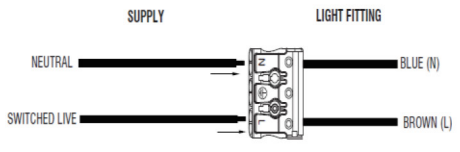


Fig 1

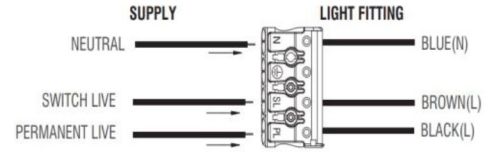


Fig 2

9. Maintained Operation: Fig 2

The fitting functions as a normal light and is switched or permanently on. To use as a normal switched light, connect a Permanent Live feed and the switch to Switched Live terminal. For an unswitched circuit, connect the Permanent Live and insert the supplied loop between Permanent & Switched Live. In the event of a power failure, the fitting fails over to the battery pack.

10. Connect the 4 PIN connector from the battery to the battery charging unit. (emergency models only)
11. Refit the LED gear tray by securing the tray back into its original position and turning the wingnut clockwise 90 degrees.
12. Re-fit the diffuser by placing over the base and turning anti-clockwise until it locks into position.
13. Switch on the power supply and check the battery charging green LED indicator is illuminated. (emergency models only)
14. When first installed, allow for 24 hours minimum to obtain full battery charge.
15. After the charging period, disconnect the mains supply to ensure that the fitting illuminates in emergency mode for at least 3 hours. (emergency models only)

WARNING:
 This luminaire **MUST** be disconnected before it is installed, subjected to any high voltage or subjected to insulation resistance testing. Otherwise irreparable damage will occur to luminaire components.

Microwave Sensor DIP Settings

The microwave sensor detects movement by emitting microwaves at 5.8Ghz in all directions. It then detects the reflections received back. It can sense through doors, glass and thin walls so sometimes the settings need to be set for the device to operate only in the area required. There are 3 settings available:

Set the settings for the Microwave sensor using the DIP switches mounted on the sensor:

- Detection Area - Adjusts the range of the sensor between 8-12m.
- On Time - How long the light will stay on for once activated. Use the 5s setting during setup.
- Daylight Settings - Darkness level at which sensor becomes active.

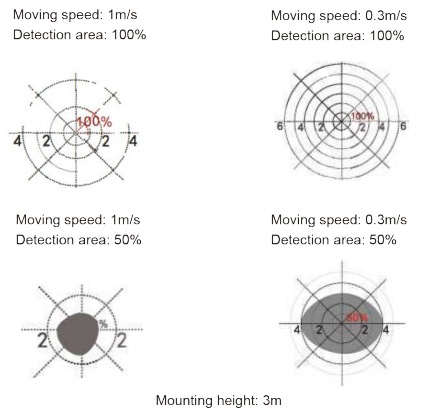
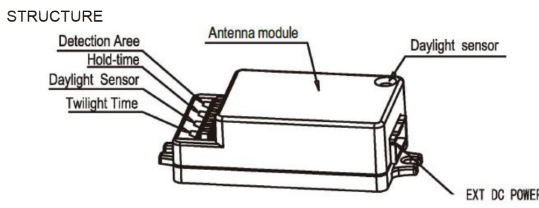
DETECTION AREA				ON TIME				DAYLIGHT SETTINGS			
1	2	3		4	5	6		7	8	9	
ON	ON	ON	100%	ON	ON	ON	5 s	ON	ON	ON	2 lux
-	ON	ON	75%	-	ON	ON	30 s	ON	ON	-	10 lux
ON	-	ON	50%	ON	-	ON	90 s	-	ON	-	25 lux
-	-	ON	25%	-	-	ON	3 min	ON	-	-	50 lux
-	-	-	10%	ON	ON	-	20 min	-	-	-	Disabled
				-	-	-	30 min				



Installation Position Considerations

The fitting should be suitably positioned so that the detection range is correct for the occupied area of the space to be illuminated. The detection area of the sensor when installed at around 4.0m high will provide a diameter of the detection area at ground level of around 10m. The diameter of the detection area will decrease if the fitting is mounted lower than 4.0m.

- Avoid placing fitting near heating or ventilation ducts.
- Avoid shiny or metallic surfaces opposite the sensor where possible.
- Avoid direct sunlight.



Cleaning

Before cleaning the fitting, disconnect the power cable and allow the fitting to cool down sufficiently. Clean with a dry or slightly moist, clean, lint-free cloth and a mild detergent if required. Do not use cleaners that contain abrasives or solvents.

Maintenance

- Check power cable and housing of the fitting for damage before use. If the diffuser is damaged, unit must be replaced immediately.
- Clean any dirt from the housing or the diffuser immediately, it could potentially cause overheating.

Correct Disposal of this product



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Testing Instructions

- Emergency light fittings must be inspected and tested regularly in accordance with local codes of practice. For safety reasons, tests should be carried out during daylight hours.
- The minimum recommended test schedule is as follows:
 After installation, allow minimum 24 hours to ensure full battery charge. Then interrupt the supply and check after 3 hours that the fitting is still illuminated.
 1. Daily check that the charge indicator LED is working
 2. Every month, interrupt mains for a short period and check that fitting lights
 3. Six-monthly, check 1 hour duration
 4. At the end of year 3 and subsequently every year, check 3 hour duration: batteries must be replaced when they can no longer support 3 hour duration.
 5. Complete the record sheet on installation and retain in a maintenance file
 6. Update the file with ongoing test records for inspection by a fire officer or other duly authorised person.

INSTALLATION & MAINTENANCE RECORD

INSTALLER:	LOCATION: TYPE:	INSTALLATION TEST DURATION DATE:
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Month	Test	1st Year		2nd Year		3rd Year		4th Year		5th Year	
		signed	date	signed	date	signed	date	signed	date	signed	date
1	short										
2	short										
3	short										
4	short										
5	short										
6	short										
7	short										
8	short										
9	short										
10	short										
11	1hr							██	██	██	██
12	3hr	██	██	██	██	██	██				