

TRINITY SERIES – LED BULKHEAD LIGHT FITTING

MODEL NUMBERS: BHST12, BHMW12, BHEM12, BHMWEM12



IMPORTANT GUIDELINES

READ THESE INSTRUCTIONS IN FULL PRIOR TO INSTALLATION, MAINTENANCE OR CLEANING. ENSURE A COPY IS PROVIDED TO THE USER OR MAINTENANCE ENGINEER FOR FUTURE REFERENCE.





















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 220-240V	 120 LM/W	 12W <> 14W <> 18W <>	 1440 > 2160 LUMENS	 50,000 hrs	 3K-6K	 NON-DIM	 100°	 CRI >80	 5 YEARS

INSTALLATION INSTRUCTIONS

GENERAL GUIDELINES

- This luminaire must be installed by a qualified professional, following the most recent IET wiring regulations and local building regulations.
- Turn off the mains power supply before inspecting, installing, or removing the luminaire. Ensure the power supply is locked down to prevent accidental reconnection.
- The installer is responsible for verifying that the installation can handle the total load of the luminaires. Supply cable, fuses and circuit breakers must be appropriately rated, considering any transient inrush currents.
- Do not conduct insulation resistance or strength tests with the luminaires connected, as this can cause damage and lead to incorrect readings.
- The installer must also ensure the environmental conditions for operation and storage are met and assess any fire risks.
- Avoid looping supply cables at the luminaire terminals unless 2-way connection terminals are provided.
- To maintain the product warranty, the luminaire must be installed and maintained as per these instructions, without any modifications.

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STEP-BY-STEP

1. Remove the outer bezel and lid.
2. Inside the housing, twist the wing-nuts to release and open the LED tray.
3. On the installation surface, measure and drill the fixing holes. Insert the rawl plugs.
4. Feed the mains cable through the knockout.
5. Wire the terminal block according to the model and operation required:

BHST12 & BHMW12	
Switched Circuit	Unswitched or BHMW12
The fitting is to be switched via the mains circuit, using a wall switch or other compatible circuit switch.	The fitting is permanently on or controlled by an internal microwave motion sensor (model BHMW12)
Permanent Live (Brown) – to terminal PL Neutral (Blue) – to terminal N <i>Earth is not required but can be terminated in the terminal</i>	Switched Live – to terminal PL Neutral (Blue) – to terminal N <i>NB: Earth is not required but can be terminated in the terminal</i>

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BHEM12		BHEM12 & BHMWEM12
Non-Maintained Operation	Maintained Operation – Switched	Maintained Operation Unswitched or BHMWEM12
The Fitting only illuminates in the event of a power failure. In the event of a power failure, the fitting fails over to the battery pack.	The fitting functions as a normal light and is switched via the mains circuit, using a wall switch or other compatible circuit switch.	The fitting functions as a normal light and permanently on or controlled by an internal microwave motion sensor (BHMWEM12)
Permanent Live (Brown) – to terminal PL Neutral (Blue) – to terminal N	Permanent Live (Brown) – to terminal PL Switched Live – to terminal L Neutral (Blue) – to terminal N	Permanent Live (Brown) – to terminal PL Insert loop between terminal PL and L Neutral (Blue) – to terminal N

6. For BHEM12 and BHMWEM12 – Press the black button marked SW on the Emergency Pack for 2 seconds to activate EM function.
7. Place the housing on the installation surface and screw the fixing screws into the rawl plugs, through the housing.
8. Re-fix the outer bezel.

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SETTINGS

CCT SELECTION

Slider switch located on led driver

W	3000K	
CW	4000K	
C	6500K	

WATTAGE SELECTION

Red switch located on led driver

	1	2
14W	ON	ON
12W	ON	OFF
9W	OFF	OFF

EMERGENCY STATUS

BHEM12 & BHMWEM12 models only

INDICATOR	STATUS
RED	CHARGING
GREEN	CHARGED
OFF	EMERGENCY
RED & GREEN FLASH	FAULT

MICROWAVE SENSOR SETTINGS

BHMW12 & BHMWEM12 models only

DISTANCE	1	2
100%	ON	ON
75%	OFF	ON
50%	ON	OFF
0%	OFF	OFF

TIME	3	4
10 secs	ON	ON
3 mins	OFF	ON
5 mins	ON	OFF
10 mins	OFF	OFF

LUX	5	6
10	ON	ON
30	OFF	ON
50	ON	OFF
Disable	OFF	OFF

DIM LEVEL	7	8
50%	ON	ON
30%	OFF	ON
15%	ON	OFF
Disable	OFF	OFF

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MICROWAVE SPECIFICATIONS

Microwave Frequency	5.8GHz ± 75MHz
Microwave Power	<1w
Microwave Detection Radius	3-4m/2-3m/1-2m
Microwave Detection Angle	97-99°

PLACEMENT CONSIDERATIONS

Careful placement of luminaires with microwave sensors is essential. Improper positioning may cause unwanted activations. Conduct a field test before finalising the installation.

Material Penetration: Frequencies can pass through wood, plasterboard, brick, and thin concrete. Triggers may occur from the opposite side of walls, doors, ceilings, or floors.

Metallic and Reflective Surfaces: Maintain at least 3M of distance between the sensor and metallic or reflective surfaces (e.g., glass or polished concrete) to prevent interference.

Vibrations: Avoid installing the sensor on surfaces prone to vibrations, which may be caused by ventilation systems, elevators, foot traffic, or nearby machinery and vehicles.

Distance from Emitting Devices: We recommend 3M distance between the luminaire and other frequency-emitting devices, such as fluorescent lighting circuits and other sensors.

Wireless Signal Interference: Strong Wi-Fi signals, GSM towers etc may cause interference. Install the luminaire in areas where these signals are weakest whenever possible.

Confined Spaces: Be mindful of back wave reflection in smaller areas. These luminaires are best suited to spaces that are at least 3 metres by 3 metres in size.

Weather Exposure: Wind and heavy rain can trigger the sensor due to the Doppler effect. Choose a more sheltered location if possible to minimise false activations.

Sensitivity Adjustment: If it is not possible to avoid the above triggers, reduce the sensitivity of the detection settings to the lowest suitable option for your application.

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