Energy Saving LED

Installation Sheet

21W GALAXY LED - GALAXY 21 IP54 DECORATIVE ROUND BULKHEAD LED MAINTAINED EMERGENCY

(€ 220-240V

This luminaire is of class II construction and does

• F marked, suitable for installation on normal

not require an earth connection.

• Ambient temperature: -20°C to 40°C.

These instructions are in addition to the standard luminaire instructions that were supplied with the product you have purchased. Please read them carefully and install the luminaire as per instructions, then keep the instructions for future reference and maintenance.

RATINGS

• IP54 rated.

flammable surfaces.

• 220-240V AC rated.

CE Approved.

Important information

It is recommended that luminaires are installed by a qualified electrician ensuring the installation complies to current IEE wiring regulations & local building control.

- These products are designed for connection to a 220-240V mains supply.
- Any broken or damaged parts should be replaced as soon as possible.
- We will not accept responsibility for any claims arising from poor installation.

SAFETY

- Before installation, ensure that the mains supply to the luminaire is switched off and the circuit supply fuse is removed or MCB turned off.
- It is recommended that a qualified electrician is consulted or used for the installation of this luminaire and it is installed in accordance with the IEE wiring regulations.
- Check that the total load on the circuit, including this luminaire, does not exceed the rating of the circuit cable, fuse or MCB.

INSTALLATION

- Remove the trim by twisting 45 degrees anti-clockwise and undo the 3 screws to release the diffuser. The screws are self retaining.
- The gear tray is hinged to allow easy access to the connections. Open the gear tray for access to the cable connections.
- Select a suitable cable entry point provided or by drilling into the base.
- Position and fix the base to a suitable solid surface using screws supplied.
- Enter supply cable into the luminaire ensuring that the hole is smooth or a grommet is fitted.
- Terminate the cable into the terminal block mounted on the underside of the gear tray ensuring correct polarity is observed and any bare conductors are sleeved.
- In addition, a secondary permanent live supply should be fed to the luminaire, in line with the switch mains supply.
- The permanent supply MUST be taken from the same phase as the switch live supply and MUST be wired so that upon test, it is isolated at the same time as the switch supply.
- Connect the battery supply to the module by joining the connectors, ensuring correct polarity is observed.
- The green LED fitted to the luminaire should be on after reconnecting the power supply, indicating that the batteries are charging.
- The batteries should be charged for at least 24 hours before carrying out a full discharge test to check if the maintained duration is being achieved.
- Close the hinged gear tray.
- Re-fit the diffuser by screwing the 3 screws back into the base. Place the trim back on top and turn 45 degrees clockwise to lock in to place.

OPERATION / MAINTENANCE

- 1. Nominal battery life is 4 years, after which time they should be replaced with a suitable equivalent.
- 2. When the lamp operates from the battery supply it will be at a reduced light level.
- 3. Keep the luminaire clean so it will not affect performance.

OPERATIONS CHECK

Periodic testing should be carried out by simulating a failure of supply, causing the fitting to be energised from its battery. Interruption of the supply should be carried out by the operation of a local key switch or other isolation device. During this period all fittings should be examined visually to ensure that they are functioning correctly. At the end of the test period the supply should be restored and all indicator lamps or devices checked to ensure that the normal supply has been restored.

The duration of the simulated failure should be:

Each month: Isolate the power supply and check the light is illuminated. This test should last for no more than 45 minutes. Complete the test record form supplied.

Every six months: Isolate the power supply and check that the light is still illuminated after 1 hour. **Once each year:** Isolate the power supply and check that the light is still illuminated after 3 hours.

Complete the test record form.

INSTALLATION, MAINTENANCE AND OPERATION CHECK RECORD

Installation Test Duration:

Location:

Installation Date:

| Installed By: | | | | | | | | | | | |
|---------------|----------------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Month | Test | Year: | |
| | | Sign | Date |
| 1 | Short | | | | | | | | | | |
| 2 | Short | | | | | | | | | | |
| 3 | Short | | | | | | | | | | |
| 4 | Short | | | | | | | | | | |
| 5 | Short | | | | | | | | | | |
| 6 | 1 hr Endurance | | | | | | | | | | |
| 7 | Short | | | | | | | | | | |
| 8 | Short | | | | | | | | | | |
| 9 | Short | | | | | | | | | | |
| 10 | Short | | | | | | | | | | |
| 11 | Short | | | | | | | | | | |
| 12 | 3 hr Endurance | | | | | | | | | | |

TEK MICROWAVE MOTION SENSOR INSTRUCTIONS



21W GALAXY LED - GALAXY 21 **IP54 DECORATIVE ROUND BUI KHEAD**

These instructions are in addition to the standard luminaire instructions that were supplied with the product you have purchased. Please read them carefully and install the luminaire as per instructions, then keep the instructions for future reference and maintenance.

1~2.5m ina Heiaht

IMPORTANT SAFETY INFORMATION

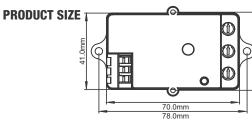
THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE INSTALLATION CODES.

INSTALLATION

- 1. The luminaire should be installed as instructed in the Instructions sheet supplied
- 2. BE SURE POWER IS TURNED OFF AT THE MAIN POWER PANEL OR FUSE BOX PRIOR TO INSTALLATION OR REPLACING THE LUMINAIRE
- 3. It is recommended that luminaires are installed by a qualified electrician ensuring the installation complies to current IEE wiring regulations & local building control.
- 4. This sensor is to be connected to a 230±10% volt, 50 or 60 Hz power source. Connecting to a different power source may create a hazard and will void the warranty
- 5. Do not attempt to open the unit housing. There are no serviceable parts inside. 6. We will not accept responsibility for any claims arising from a poor installation.

TECHNICAL PARAMETERS

| RATING | 230±10% VAC 50/60Hz | | | | | |
|-----------------------|---|--|--|--|--|--|
| INSTALLATION | Wall / Ceiling | | | | | |
| MICROWAVE FREQUENCY | 5.8GHz ± 75MHz CW RADAR, ISM BAND, TRANSMITTER POWER < 0.2mW | | | | | |
| MOUNTING HEIGHT | 2~5M Ceiling / 1~2.5m Wall | | | | | |
| DETECTION ANGLE | 360 DEGREES (CEILING MOUNTING) | | | | | |
| DETECTION DISTANCE | ø16m Ceiling Mount & 8m Wall mount | | | | | |
| AMBIENT CONTROL | 10 Lux ~ 2000 Lux (ADJUSTABLE) | | | | | |
| TIME DELAY | 10 sec ~ 30 MINUTES | | | | | |
| STANDBY POWER | Approx 0.9W | | | | | |
| RATED LOAD | 1200W Incandescent (220VAC, cosφ=1) | | | | | |
| | 300W Fluorescent (220VAC, cosφ=0.5) | | | | | |
| | 200W LED Lamps | | | | | |
| OPERATING TEMPERATURE | 0 ~ +60°C @ FULL LOAD; +70°C @ 60% LOAD | | | | | |
| STORAGE TEMPERATURE | -20 ~ +80°C, 10~95% RH | | | | | |



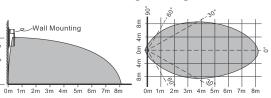
High Environmental Adaptability

The microwave motion sensor has high reliability, it's detection range is less affected by temperature, wind, airflow, sound, light, fog, smoke, dust, etc.

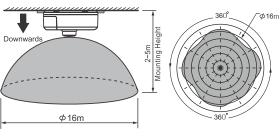
High Sensitivity for Occupancy Detecting

This product can detect the slightest movement, such as lifting an arm, turning round, stooping etc. In addition, unlike infrared sensor, the microwave sensor has no directional characteristics. Movement in any direction can be detected.

Wall Mounting Coverage



Ceiling Mounting Coverage



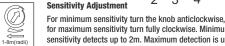
86.1mm

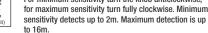


The sensor has three adjustments to control the fitting, which can be automatically turned ON or turned OFF according to setting value.

1. Ambient illumination detector (Photodiode) & Flash LED







3. Time setting knob Time adjustment (1-30 Minutes)



The TIME adjustment controls how long the fitting will stay on after motion is no longer detected.

When the light is switched ON the Flash LED in the Photodiode (1) will indicate the time setting: 1 flash = 10sec, 2 flashes= 1 min, 3 flashes= 2 min, 4 flashes= 5 min, 5 flashes=8 min, 6 flashes=10 min, 7 flashes=15 min, 8 flashes=20 min, 9 flashes=25 min. 10 flashes=30 min.

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4. Lux setting knob LUX Level*



The LUX adjustment determines at what level the sensor will start operating when set to automatic operation & can be adjusted to suit individual requirements. * On the corridor function model please set the lux level to full daylight for the fitting to function efficiently.





Sensor prevents activation during daylight hours.

During darkness the sensor detects movement in the room and turns the light on.

Once movement is no longer detected the sensor will turn the light off after the pre-set time.

TROUBLESHOOTING

Q1: Does not function at all

- · Make sure the power switch (if applicable) is ON and check the wiring is correct.
- · Check that the circuit breaker, fuse, and main circuit breaker or main power switch are ON.
- Should the light level be too bright it may be necessary to increase the LUX setting.

Q2: The sensor light is always ON

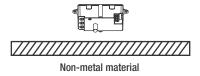
· Movement occurred, but not identified by the sensor(movement behind wall, movement of a small object in immediate lamp vicinity etc.)

Warm-up:

This unit requires a warm-up of approx. 10 seconds after power is applied for the system's circuit to stabilize.



The product can not work normally if there is metal material in front of the installation place.



When the sensor is installed inside the ceiling floor, the sensitivity to light will be invalid.

Manual Override:

(LED indicator - Interval 1 second flash 1 time)

Turn the switch OFF then ON once within 2 seconds. This will activate the manual override facility. The sensor will reset to automatic mode after 4 hours.

To return to automatic mode within the 4 hours turn the switch OFF then ON again within 2 seconds.

