



AVENGER II DIY LED Floodlight with Sensor

Model No	19667/06	19669/06	19671/06
Wattage	20W	30W	50W

Congratulations on the purchase of your new Brilliant Avenger II LED floodlight. Before first using, it is most important that you read and follow these instructions, even if you feel you are quite familiar with this type of product.

Your Brilliant LED security light incorporates a PIR (Passive Infra Red) sensor which continuously scans the selected area and immediately switches on your lights when it detects movement in that area. This means that whenever movement is detected within the range of the sensor, the light will switch on automatically. Ideal for pathways, entrance, driveways, patios and any area you need to improve safety, security and convenience.

Specifications:

Fitting: Diecast Aluminium body with clear glass lens and stainless steel fascia
Ratings: 230-240V, 50Hz, 20W (19667/06), 30W (19669/06) and 50W (19671/06)
Lamp type: LED
Protection: Class I
IP Rating: IP 65
Detection method: Passive Infra-Red Sensor
Detection range: 12m x 180 degrees (approx.)
Time adjustment: 10sec to 10min (approx.)

Important:

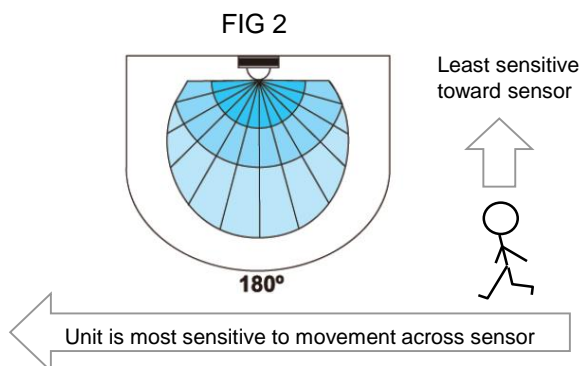
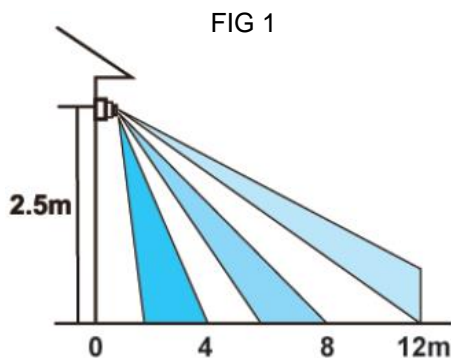
- To achieve best results, please read the following carefully, and save these instructions for future reference.
- Operating the floodlight in an ambient temperature above 30°C may result in a reduced lifetime.
- Best results are achieved when detection occurs when movement is across the scanning beam, rather than directly towards or away from it. Select a mounting position where detection will occur across the scanning area.
- This product must be used only as described in this manual. Any other use not recommended may cause fire, electric shock, or injury to persons.
- Floodlight must be mounted more than 30cm away from lighted objects.
- Installation must follow Regulations and local building codes. If you are not familiar with these codes and requirements, consult a qualified electrician.
- Do not install in a position where the fitting can be easily accessed by children or infirm persons.
- ALWAYS ensure the power is OFF before the installation or adjustment.
- DO NOT install above or near flammable objects.
- ALWAYS allow the lamp to cool sufficiently before adjustment.
- ALWAYS ensure that the nuts and bolts positioning the lamp body are tight and secure.
- ALWAYS ensure all nuts and bolts are loosened before attempting adjustments.

Selecting a location:

- For best performance, floodlight should be mounted 1.8 to 2.5 metres above the selected area. The sensor detection area can vary depending on mounting height and location (FIG 1).
- Select a mounting position where detection will occur across the scanning area (FIG 2).

Notes:

- The detection range of your sensor may alter with changes in temperature.
- DO NOT direct the sensor toward the sun.
- To avoid nuisance detections, your sensor light should be directed away from sources of heat such as barbecues, Air Conditioners, outside lighting, moving cars or flue vents.
- Consider your neighbour when positioning the unit.





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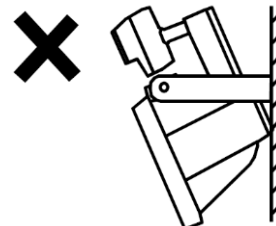
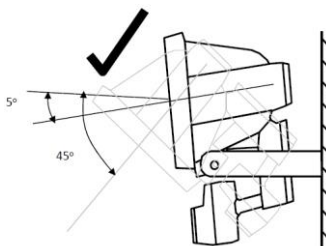
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Installation:

1. Ensure mains supply is switched off.
2. Unscrew the mounting bracket bolts and remove bracket.
3. Position the mounting bracket against the mounting surface and mark the positions for the mounting screws.
4. Drill two holes in the mounting surface, then insert rawl plugs (not provided) into the holes.
5. Secure the bracket to the mounting surface by tightening the screws (not provided) into the rawl plugs.
6. Re-fit the flood light body back onto the bracket by tightening bracket bolts.
7. Insert the supply plug into a suitable approved and rated socket outlet
8. Align the unit towards the intended area to be lit and firmly tighten the screws.
9. Turn mains supply back on.

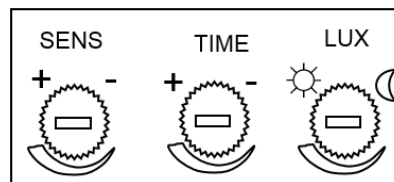
Below drawing shows correct orientation. Sensor must be below the floodlight

Below drawing shows incorrect orientation.



Time Adjustment

The TIME adjustment control is located on the bottom of the sensor unit. It controls the length of time the light remains on once a person has left the activation area. The time can be adjusted on this sensor from approximately 10 seconds to 10 minutes. Turning the TIME dial clockwise increases the time and anti-clockwise reduces the time.



Daylight Adjustment

The sensor has a built in photoelectric cell that automatically detects daylight and darkness.

Rotating the LUX dial fully anti-clockwise allows the unit to sense objects only during the night. Rotating the dial fully clockwise allows the unit to be walk-tested during the day.

Sensitivity Adjustment

The PIR sensor has an adjustment SENS that controls the sensitivity of the sensor. During wintertime, the sensitivity may need to be turned down (anticlockwise) so that the light is not switching on constantly due to any small heat object detected. Similarly, during warmer months, the sensitivity may be adjusted up (clockwise) in order to see heat objects further away.

Operating and testing:

Walk Test Procedure.

The sensor head itself can be adjusted left or right, and tilt forward or backward slightly. Adjust the sensor head to point in the desired direction by loosening the large flange nut behind the sensor head.

Set the three adjustment controls on the underside of the unit to the following positions:

TIME - Fully anti-clockwise

LUX - Fully clockwise

SENS - Midway

(The unit will now operate during daytime as well as at night, illuminating the lamp for approx. 10 seconds each time. This allows testing to be carried out to establish the best position for the sensor.)

Switch ON the mains power. The lamp will immediately illuminate as the unit goes through its "warm-up" period. After approximately 30 seconds, the lamp will extinguish. Try to remain outside the detection area during the warm-up period.

Walk across the detection area approx. 5 metres from the unit. As you cross the detection "zone", the lamp will illuminate. Now stand still until the lamp extinguishes (this should take approx. 10 seconds).

Walking at various distances and angles to the unit will help you to establish the detection pattern. If the detection area is too small for your requirements, try angling the sensor head up. This will increase the coverage distance. Angling the head downwards will reduce the range should a smaller coverage area be required.

Once the Walk Test is completed, turn the LUX dial fully ANTI-CLOCKWISE and adjust the TIME to about 2 minutes.



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Troubleshooting:

- Lamp stays ON all the time at night The unit may be suffering from false activation. Cover the, sensor lens completely with a thick cloth. This will prevent the sensor from “seeing” anything. If the unit now switches off after the set time duration and does not re-activate, this indicates that the problem was caused by false activation.
- PIR keeps activating for no reason / at random. The problem may be solved by slightly adjusting the direction/angle of the sensor head (see previous section). You may not be allowing the unit time to complete its warm-up period, Stand well out of the detection range and wait (the warm-up period should never exceed 1 minute). Occasionally, winds may activate the sensor. Sometimes passages between buildings etc. can cause a “wind tunnel” effect. Ensure the unit is not positioned so as to allow detection of cars/people using public thoroughfares adjacent to your property.
- PIR sensor will not operate at all. Check that the power is switched ON at the circuit-breaker or internal wall switch.
- The PIR sensor will not operate at night. The level of ambient light in the area may be too bright to allow operation at the current LUX setting. During the hours of darkness, adjust the LUX control slowly anticlockwise until the lamp illuminates.
- Unit activates during the daytime. The level of ambient light in the area may be too dark for the current LUX setting. During daylight, adjust the LUX control slightly clockwise. When the lamp extinguishes, enter the detection area. If the PIR still activates, the setting is still too high. Repeat the above procedure until the PIR does not activate when you enter the detection area. Refer to the instructions for more details.
- PIR coverage is poor/sporadic. Detection range varies from day to day. Unit may be poorly located. See previous section - ‘Selecting The Location’ and re-locate the unit. PIR sensors are influenced by climatic conditions. The colder the ambient temperature, the more effective the sensor will be. You may need to make seasonal adjustments to the sensor head position to ensure trouble-free operation all year round.
- Lamp flashes on/off on/off in a regular pattern. The PIR may be sensing illumination from its own lamp, turning it off as if it were daylight every time the lamp illuminates. Turn the LUX setting clockwise until the flashing stops.



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Warranty:

Brilliant Lighting warrants this product against defects in manufacture and workmanship for a period of 2 year from date of purchase or as specified on the packaging. For products used in non-domestic or commercial applications, Brilliant Lighting warrants this product for a period of 3 months from date of purchase. This warranty is only valid for products operated within the guidelines specified by Brilliant Lighting, and within the correct operating voltage ranges as stated on the product's rating label.

Warranty does not include damage or loss arising from incorrect installation, operation or maintenance of this product, damage caused through modification, service by unqualified or unauthorised personnel or lack of regular maintenance and cleaning. Proof of installation by qualified personnel may be required, eg. Electrical Safety Certificate. Proof of purchase must be supplied with all warranty claims.

This warranty is provided in addition to any other rights and remedies of the customer under any law. In applications not intended for household, personal or domestic use, liability is limited to replacement or reimbursement of product only.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if goods fail to be of acceptable quality and the failure does not amount to a major failure.

Any claim under this warranty must be made within 2 year of the date of purchase of the product or as specified on the packaging. To make a claim under the warranty, take the product (with proof of purchase – receipt or similar) to the store where you purchased the product or contact Brilliant Lighting at the address below.

This warranty is given by:

Brilliant Lighting (Aust)Pty. Ltd.
ABN 37 006 203 694
956 Stud Road Rowville, VIC 3178
Phone: 03 9765 2555
Email: info@brilliant-lighting.com.au
MADE IN CHINA