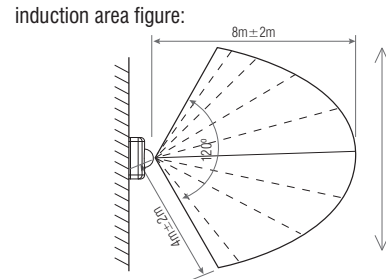


## PIR Specification

78963, 78965, 78967 and 78969 are fitted with PIR motion sensor. The specification is as follows:

Power Source: 220-240VAC  
Power Frequency: 50/60Hz  
Rated Load: MAX. 50W  
Detection Range: 120°  
Detection Distance:  
8±2m (<24°C)(adjustable)  
Time Setting:  
10±5sec-8±2min. (adjustable)

Ambient Light:  
2-2000Lux. (adjustable)  
Detection Motion Speed:  
0.6-1.5m/s  
Working Temperature:  
-10°C--+45°C  
Working Humidity: <40%RH  
Installation Height: 1-3m

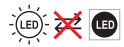


## Technical data

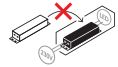
Supply Voltage: 220-240 V~, 50 Hz

Bulb Type: 78963 : 10W LED Module (SMD), 4000K 78967 : 30W LED Module (SMD), 4000K  
78965 : 20W LED Module (SMD), 4000K 78969 : 50W LED Module (SMD), 4000K

These products contain a light source of energy efficiency class **F**.



Non-replaceable light source



Non-replaceable control gear



Conformity with all relevant UKCA Directive requirements.



Conformity with all relevant EC Directive requirements.



This product is Class 1, must be connected to earth.



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.



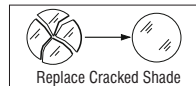
This product is not suitable for dimming.



This product is rated at IP44.

## Care and Safety

We recommend cleaning with a soft dry cloth. Do not use solvents or abrasive cleaners as these could damage the finish. For your safety, always switch off the power supply before cleaning.



This light source is protected by a shade. This part must be replaced immediately should the shade become cracked or damaged. This fitting must not be used without the shade in place.

For further information, please visit <https://www.lighting-info.co.uk/78963>

V6 11/04/2023

UK Manufacturer: BH17 7BY  
EU Manufacturer: Brilliant AG,  
Brilliantstrasse 1, D-27442 Gnarrenburg

saxby  
lighting

Instruction manual

# Surge PIR

78963, 78965, 78967, 78969



[www.saxbylighting.com](http://www.saxbylighting.com)

saxby  
lighting

Thank you for purchasing this light fitting. Please read the instructions carefully before use to ensure safe and satisfactory operation of this product. Please retain these instructions for future reference.

## Warning

This is a Class 1 product and must be earthed.

Please read these instructions carefully before commencing any work.

This unit must be fitted by a competent and qualified electrician.

Install in accordance with the IEE Wiring regulations and current Building Regulations.

Check the pack and make sure you have all the parts listed.

To prevent electrocution switch off at the mains supply before installing or maintaining this fitting. Ensure other persons cannot restore the electrical supply without your knowledge.

This light fitting should be connected to a circuit with a 30mA RCD fitted.

If replacing an existing fitting, make a careful note of the connections.

The entire unit gets hot whilst on for a period of time.

This product is not suitable for location in or near a marine environment.

The external flexible cable or cord of this luminaire cannot be replaced. If the cord is damaged, the luminaire must be destroyed.

Terminal block not included. Installation may require advice from a qualified person.

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

## Layout

Plan the desired layout of these fittings carefully, ensuring the cables will reach the distance between the junction box (not supplied) and the light fitting.

Avoid locating any cables in positions that would cause a hazard. Position cables and outdoor rated junction boxes (not supplied) away from areas where they may be at risk from being cut, trapped or damaged.

This product is supplied with 1 metres of H05RN-F outdoor grade rubber sheathed cable ready for connection to an approved, outdoor rated terminal block which is not supplied and must be obtained. The mains supply cable must have a minimum cross sectional area of 1.0mm<sup>2</sup>

Cables must be protected using suitable conduit or plastic trunking.

This is a floodlight product, and therefore should be positioned where it will not cause a glare hazard.

The optimum height is between 1m-3m.

## Installation

Existing fittings must be completely removed before installation of a new product. Before removing the existing fitting, carefully note the position of each set of wires.

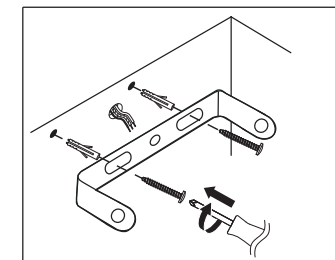
Note that the switch is turned off before installation.

Ensure that the screws and cable entry points are sealed to maintain the IP rating of the product.

Lights can install on the ground / wall or brackets according to actual situation such as installation on the brackets with hexagonal head screw fixed. And dig the hole on ground or wall with suitable expansion bolt (not supplied) fixing according to light's bracket if install on the ground or wall.

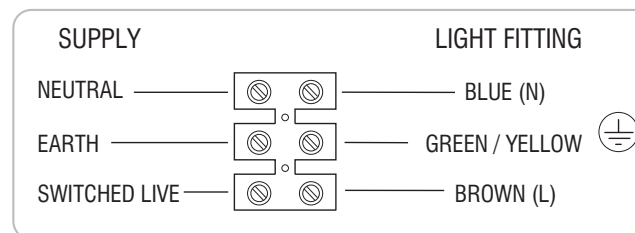
- Hold the product in position and mark the location of the fixing holes. A minimum of two fixing points must be used. Ensure the wall is capable of holding the weight of the product. The bracket can be removed from the fitting for ease of installation.
- Drill and plug the wall at the marked positions.
- Wire as detailed wiring.

- Refit the cover on the IP terminal block. Ensure that the seals are correctly located, and refit the screws.
- Fix the bracket to the wall using the screws and plugs (not supplied). Take care to avoid damaging any concealed wiring and pipes. The correct fixings should be used for brick or cavity walls.
- Using the allen key (not supplied), loosen the bolts on the side, and adjust the fitting to the desired position. Ensure that the cable is not snagged. Re-tighten the bolts.



## Wiring

Terminal block not included. Installation may require advice from a qualified person. Connect to an approved outdoor rated terminal block, observing the wiring diagram here.



### Check that...

- You have correctly identified the wires.
- The connections are tight.
- No loose strands have been left out of the connection block.

## PIR Adjustment

Please read in full before test and keep for future reference take care not to over rotate the dials. They do not rotate through 360° for testing in daylight.

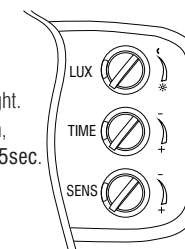
### Infrared induction mode:

Infrared sensors into infrared sensing mode after first power on,

**LUX** gear can adjust the open ambient light of load sensors, when the knob indicator rotation in **sun** position, the load will open during the day, When rotation in **moon** position, the load only open at night.

**TIME** gear adjust the delay time of sensor work time, when the knob indicator rotation in “+” position, the most delay time is 8min±2min, when rotation in “-” position, the shortest delay time is 10sec±5sec.

**SENS** gear adjust the induction distance of sensor, when the knob indicator rotation in “+” position, the distance is farthest, when rotation in “-” position, the distance is shortest.



### Manual override mode:

The PIR sensor has a **manual override function** which can be operated by taking the following steps:

**When first switched on, the PIR sensor will go into “warms up” self test:**

- 1) If there are no action, the PIR sensor “warms up” self test for approx 15 seconds and then goes into AUTO mode;
- 2) If switch the power OFF and ON twice within 3 seconds ((OFF-ON-OFF-ON), the PIR sensor will switch to MANUAL mode.

**In AUTO mode, the light is with PIR function:**

- 1) If switch the power OFF and ON twice within 3 seconds (OFF-ON-OFF-ON), the PIR sensor will switch to MANUAL mode.

- 2) If switch the power OFF more than 10 seconds, the PIR sensor will return to 'warm up' self test process.

**In MANUAL mode, the light will remain ON permanently, without the PIR function:**

- 1) If switch the power OFF more than 10 seconds, the PIR sensor will return to 'warm up' self test process.

