TIMEGUARD°

360° Surface Mount PIR Light Controller

Model: SLW360N



These instructions should be read carefully in full before installation and retained for further reference and maintenance.

2. Safety

- Before installation or maintenance, ensure the mains supply to the PIR sensor is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- It is recommended that a qualified electrician is consulted or employed for the installation of this PIR sensor and that it is installed in accordance with current IEE wiring and Building Regulations.
- Check that the total load on the circuit, including when this PIR sensor is fitted does not exceed the rating of the circuit cable, fuse or circuit breaker.
- · Secure device with 10A rated air breaker.

3. Technical Specifications

• 230V AC 50Hz

This PIR sensor is of class II construction and must not be earthed

• Motion Detection Range: Up to 8 meters diameter

at a 3m mounting height

 Presence Detection Range: Up to an 4 metres diameter at a 3m mounting height

2000

• Detection Angle: 360°

• Maximum Switching Load: 2000W Halogen Lighting,

500W Fluorescent (low-loss ballast) Lighting, 200W Fluorescent (electronic ballast) Lighting, 250W LED (PF>=0.9)

Lighting, 75W Fan

• Time ON Adjustment: 3 seconds to 18 minutes

• Dusk Level Adjustment: Day & Night or Night-time only operation

(1 to 1000 Lux)

• Manual Override: Pulse, for approximately 6 hours

ON time max

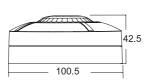
IP44 Rated, suitable for restricted internal applications

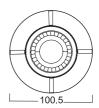
CE Compliant

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Multiple PIR Sensor Switching: A maximum of 8 SLW360N PIR

A maximum of 8 SLW360N PIR sensors can be wired in parallel, to enable any detector to turn ON all the lights connected. The total load must not exceed the lamp rating of a single SLW360N unit.





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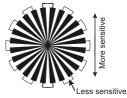
4. Selecting a Location

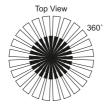
- The motion detector has a number of detection zones, at various vertical and horizontal angles as shown (See diagram "A").
- The best all-round coverage is achieved with the unit mounted at the optimum height of 3 metres.
- Careful positioning of the sensor will be required to ensure optimum performance (see diagram "A" & "B" detailing detection range and direction).
- The sensor is more sensitive to movement ACROSS its field
 of vision than to movement directly TOWARDS IT (see diagram "B").
 Therefore position the unit so that the sensor looks ACROSS
 the likely approach path.
- Avoid positioning the sensor where there are any sources of heat in the detection area (fans, radiators, heaters etc.) including opposite any other light sources.
- Reflective surfaces (i.e. white painted walls, windows) may cause false activation.

Diagram A

Side View Up to 4m Presence Detection Up to 8m Motion Detection

Diagram B





5. Installation

- Ensure the mains supply is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- An isolating switch should be installed to enable the power to be switched ON & OFF for maintenance purposes and to activate the manual/auto override function.
- Remove the top cover of the sensor by twisting the top cover anticlockwise.
 The top cover can now be removed from the sensor body.

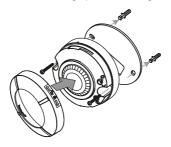


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- Mark the position of the mounting holes on the ceiling using the sensor as a template.
- Drill out the mounting holes taking care to avoid any joists, electrical cables or water/gas pipes that may be hidden beneath the surface. Insert the rawl plugs into the holes.
- Cut out the knock out hole if necessary.

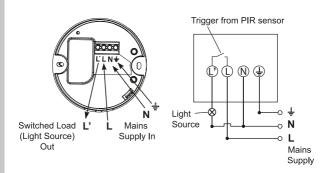


- Pass the 230V 50Hz mains supply and load cable through the cable entry
 point on the foam gasket and then the ceiling mounting plate, ensuring
 the grommet is used to maintain the IP rating of the PIR sensor.
- Terminate the 230V 50Hz mains supply and load cables into the terminal block, ensuring correct polarity is observed, and that all bare conductors are sleeved (see section 6. Connection Diagram).
- When wiring is complete, it is recommended that the ceiling mounting plate is fitted to the sensor body and fixed to the ceiling as follows;
 - 1. Foam gasket
 - 2. Ceiling mounting plate
 - 3. Sensor body
- Insert fixing screws through the sensor body into the wall plugs and secure.
 Do not overtighten, if using a power screwdriver please ensure it is set to a low torque setting so as not to damage the unit. Ensure the sensor is set up as per section 7. Setting Up, before refitting the top cover.



6. Connection Diagram

• Connect the cables as follows:



230V 50HZ Wains Supply	
Live Supply (Brown or Red) to	

Neutral Supply (Blue or Black) to A 'Loop Terminal' is provided should a 3 core

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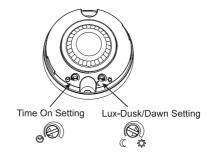
cable be used which is marked

Switched Load (Light Source) Out
Switch Live (Brown or Red) to L1
Neutral Load (Blue or Black) to N

7. Setting Up

Walk Test (Test Mode)

 The adjustment knobs located beneath the sensor head are factory set to "Test Mode". Double check they are set as follows;
 Time Setting – fully anticlockwise
 Lux-Dusk/Dawn Setting – fully clockwise



- Turn the power to the unit ON. The lamp will immediately illuminate
 as the unit goes through its "warm-up" period. After approximately
 45 seconds the lamp will extinguish. This indicates the unit is wired
 correctly and the unit is in Test Mode.
- Try to remain outside the detection area during the warm-up period.
- The unit will now operate during daytime as well as at night, illuminating the lamp for approx. 3 seconds each time. This allows testing to be carried out to establish whether the sensor is covering the required area.
- Walk around the sensor to establish the detection area. The sensor
 will detect within an approximate 8 metre diameter circle from
 the centre of the sensor location with a 3m ceiling. As you cross
 a detection "zone" the lamp will illuminate.
- Now stand still until the lamp extinguishes (this should take approx.
 3 seconds). Start moving again after 2 seconds. As you cross each "zone" the lamp will illuminate.
- Repeat the above, walking at various distances and angles to the unit.
 This will help you confirm the detection pattern.

8. Setting Up for Automatic Operation (Auto Mode)

- When the walk tests are complete, the unit can be adjusted for automatic operation.
- The Time Setting controls how long the unit remains illuminated following activation and after all motion ceases.
- The minimum time (fully anticlockwise) is approx. 3 seconds, whilst the maximum time (fully clockwise) is approx. 18 minutes. Set the control to the desired setting between these limits.
- The Lux-Dusk/Dawn Setting determines the level of darkness required for the unit to start operating. The setting is best achieved through the procedure below;
- 1. Turn the Lux-Dusk/Dawn Setting control knob fully anticlockwise.
- When the ambient light level reaches the level of darkness at which you wish the lamp to become operational (i.e. at dusk) SLOWLY rotate the control in a clockwise direction until a point is reached where the lamp illuminates.
- 3. Leave the control set at this point.
- In this position the unit should become operative at approximately the same level of darkness each evening
- Observe the operation of the unit. If the unit is starting to operate too
 early (i.e. when it is quite light) adjust the control slightly anticlockwise.
 If the unit starts to operate too late (i.e. when it is very dark)
 adjust the control slightly clockwise.
- Continue to adjust until the unit operates as desired.

9. Manual Override Mode

The light can be switched ON for longer time periods through use of the Manual Override Mode. This can be activated at night by using the isolation switch.

- Switch the isolation switch once (OFF/ON) within 1.5 seconds.
- The unit will now illuminate continuously for 6 hours or until it is switched back to Auto Mode.
- To return to Auto Mode switch the isolation switch OFF and then back ON again within 1.5 seconds.

10. Troubleshooting

The Lamp stays ON

Problem

Solution

all the time at night.

Cover the PIR lens with a thick cloth. If the light turns OFF, check the detection area for heat or a reflective source. If the light stays ON, check the wiring (See section 5. Installation and Connection).

The PIR keeps activating for no reason at random. Turn OFF at the isolation switch. Turn back ON again after 30 seconds. Leave for approximately 15 minutes. If the light activates, check for false activation from heat, wind or a reflective source.

PIR sensor will not operate at all.

Check that the power is switched ON at the isolation switch. Turn OFF the power to the unit and check the wiring connections. Check the lamp (if it's changeable). If the lamp has failed, replace. Ensure the lamp is seated correctly in the lamp-holder. Note: the unit will not detect through glass (e.g. in a glazed porch).

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 DUSK setting. During the hours of darkness, adjust the DUSK control slowly clockwise until the lamp illuminates.

PIR activates during the daytime.

Adjust the DUSK control setting anticlockwise to lower the level of ambient light required for activation

The PIR may be poorly located. See section 4. Selecting a location and relocate the unit.

• The detection range varies from day to day.

The PIR detectors 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 detector head position to ensure trouble-free operation all year round.

In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge. For years 2 and 3 or any difficulty in the first year, telephone the helpline on 020 8450 0515.

Note: A proof of purchase is required in all cases. For all eligible replacements (where agreed by Timeguard) the customer is responsible for all shipping/postage charges outside of the UK. All shipping costs are to be paid in advance before a replacement is sent.



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If you experience problems, do not immediately return the unit to the store.

Telephone the Timeguard Customer Helpline;

HELPLINE **020 8450 0515**

or email helpline@timeguard.com

Qualified Customer Support Coordinators will be online to assist in resolving your query.



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For a product brochure please contact:

Timeguard Limited.

Victory Park, 400 Edgware Road, London NW2 6ND Sales Office: 020 8452 1112 or email csc@timeguard.com

www.timeguard.com

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