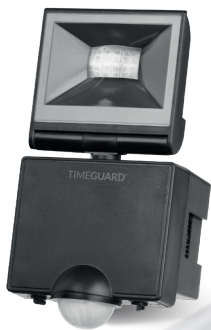


# TIMEGUARD®

## LED Pan & Tilt Single / Twin Head PIR Floodlights

Installation & Operating Instructions



Model: LED10PIRB



Model: LED20PIRB

# 1. General Information

These instructions should be read carefully and retained for further reference and maintenance.

**Note:** Timeguard reserve the right to alter these instructions at any time. Up to date instructions will always be available for download at [www.timeguard.com](http://www.timeguard.com)

## 2. Safety

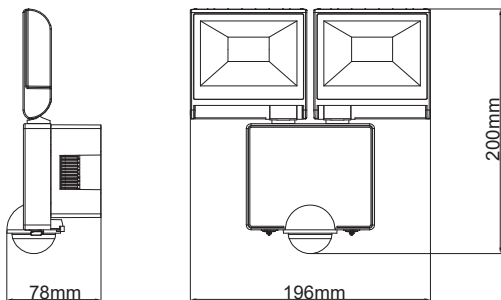
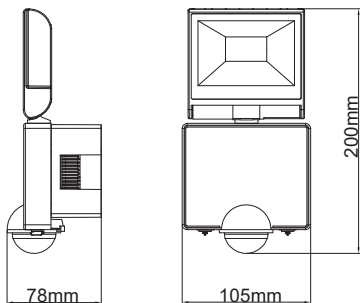
- Before installation or maintenance, ensure the mains supply to the luminaire is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- It is recommended that a qualified electrician is consulted or used for the installation of this luminaire and install in accordance with the current IEE wiring and Building Regulations.
- Check that the total load on the circuit including when this luminaire is fitted does not exceed the rating of the circuit cable, fuse or circuit breaker.
- To clean use a clean dry cloth only. Do not use liquid cleaners.

## 3. Technical Specifications

**The specification below covers the single & twin head models.**

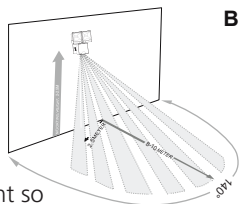
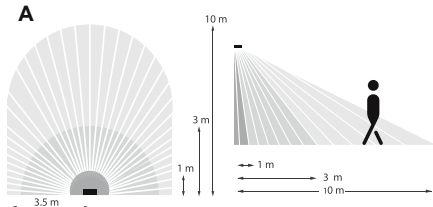
- Mains Supply: 230V AC 50Hz
- This luminaire is of class II construction and must not be earthed
- Energy Usage: 10 Kwh/1000h: Single Head  
20 Kwh/1000h: Twin Head
- Beam Angle (Per Head): 80°
- Lamp Adjustment Pan and Tilt: Left and Right 40°  
Downward 80°
- Lumen Output: 1000lm: Single Head  
2000lm: Twin Head
- Colour Temperature: 4000K
- Operating Temperature: -20°C to +40°C

- Back Box Mounting Hole Centres: 84mm
- IP Rating: IP55
- Motion Detection Range: Up to 10m at a 2.5m mounting height
- Detection Angle: 140°
- Light Time On Adjustment: 2 seconds to 30 minutes
- Lux Adjustment: 2 to 200 lux
- Standby Power Consumption: <0.5W
- PIR Warm Up Duration: 5-10 seconds (approx)
- Manual Override: Yes (Pulse Override)
- CE / UKCA Compliant
- Construction: Polycarbonate



## 4. Selecting a location

- The PIR has a number of detection zones, at various vertical and horizontal angles as shown. See image A
- The best all-round coverage is achieved with the floodlight mounted at the optimum height of 2.5 metres. See image B.
- Appropriate positioning of the PIR is required to ensure optimum performance.
- The PIR is more sensitive to movement across its field of vision than directly towards it. Therefore position the floodlight so that its PIR looks across the likely approach path where possible.
- Avoid positioning the floodlight where there are any sources of heat in the detection area of its PIR (extractor fans, tumble dryer or boiler exhausts etc.) including opposite any other light sources such as other security floodlights.
- Reflective surfaces (e.g. pools of water or white painted walls) and overhanging branches may cause false activation under extreme conditions.
- During extreme weather the PIR may exhibit unusual behaviour. This does not indicate a fault with the product. Once normal weather conditions return, the PIR will resume normal operation.



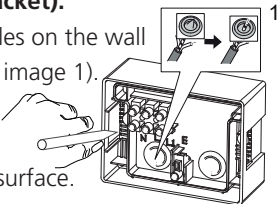


## 5a. Installation

This section covers installation without the use of the corner bracket. If the corner bracket is required for installation refer to section 5b Installation (Corner Bracket).

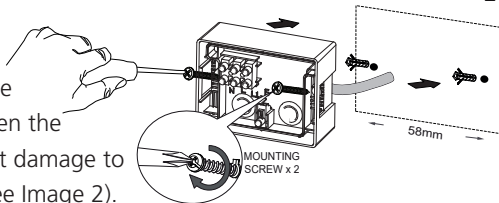
- Mark the position of the mounting holes on the wall using the back box as a template (See image 1).

Drill the holes ensuring not to infringe with any gas/water pipes or electrical cables that may be hidden below the surface.



- Insert the rawl plugs into the holes.
- Pass the mains supply cables through the back box, using the appropriate knockouts and cable entry points to prepare for termination. Ensure the grommets are used to maintain the IP rating of the luminaire.

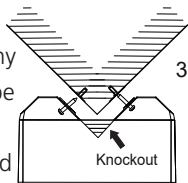
- Fix the back box to the wall using the two mounting screws, making sure it is the correct way up. Take care not to over-tighten the screws to prevent damage to the back box. (See Image 2).



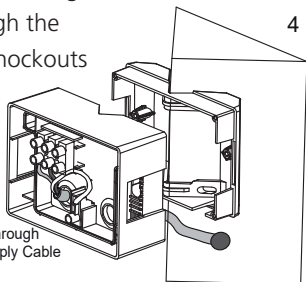
- The mains supply cable can now be terminated. Please refer to section 6 (Connection Diagram).

## 5b. Installation (Corner Bracket)

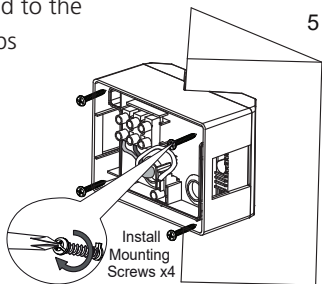
- Mark the position of the mounting holes on the wall using the corner bracket as a template (See image 3). Drill the holes ensuring not to infringe with any gas/water pipes or electrical cables that may be hidden below the surface.
- Insert the rawl plugs into the holes. If mounted to an external corner, as shown, there is a thin web of plastic that needs to be removed with cutters before installation. The corner bracket can also be used for internal corners (not shown).
- Fix the corner bracket to the wall using the two mounting screws, making sure it is the correct way up. Take care not to over-tighten the screws to prevent damage to the corner bracket.



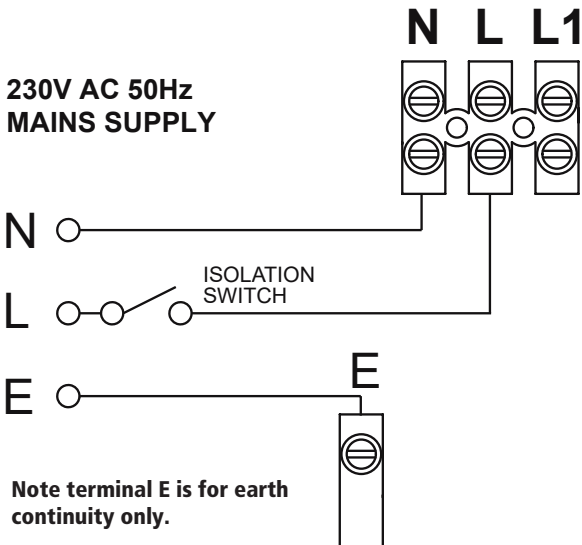
- Pass the mains supply cable through the back box, using the appropriate knockouts and cable entry points to prepare for termination. Ensure the grommets are used to maintain the IP rating of the luminaire. (See Image 4)



- The back box can then be secured to the corner bracket using the x4 Philips screws. (See image 5).
- The mains supply cable can now be terminated. Please refer to section 6 (Connection Diagram).



## 6. Connection Diagram



### 230V 50Hz Mains Supply

Live Supply (Brown or Red)

L

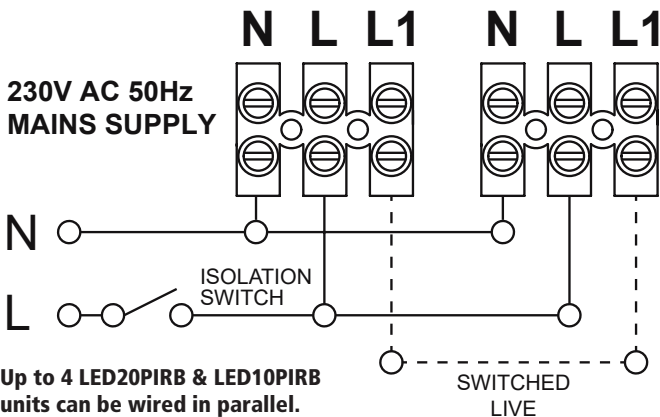
Neutral Supply (Blue or Black) to

N

Earth (Green/Yellow) to

E

# Parallel Wiring Connection Diagram



7

## 230V 50Hz Mains Supply

Live Supply (Brown or Red)

L

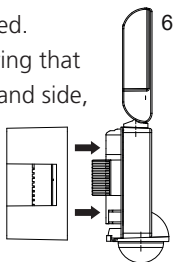
Neutral Supply (Blue or Black) to

N

Switched Live (Link) to

L1

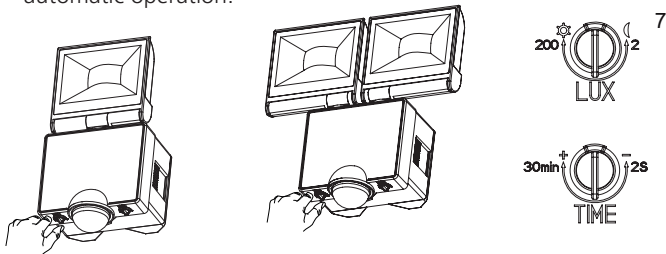
- After the mains supply cable has been terminated. Re-connect the luminaire to the back box ensuring that the two lugs firmly latch on the left and right hand side, indicated by a 'click'.



# 7. Setting Up

## Walk Test Procedure (Test Mode)

- Make sure the PIR sensor is set to Test Mode i.e. the time on adjustment to the minimum (fully anti-clockwise) position, and the Lux Level set the Sun symbol (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 30 seconds the lamp will extinguish. This indicates the unit is wired correctly and the unit is in Test Mode. Remain outside the detection area during the warm-up period.
- The unit will now operate during daytime as well as at night, this allows testing to be carried out to establish whether the sensor is covering the required area. Walk across the location the sensor is fitted, to establish the detection zone.
- The sensor will detect you approximately up to 10 metres forward at mounting height of 2.5m. As you cross the detection zone, the lamp will illuminate. When no movement is detected the lamp will extinguish.
- Repeat the above, at various distances and angles to confirm the detection area is suitable.
- When the walk tests are complete, the unit can be adjusted for automatic operation.



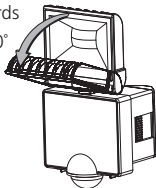
- The time on adjustment controls how long the unit remains illuminated following activation and after all motion ceases. Make these adjustments using your thumb on the dial.

- The LUX Level adjustment determines the level of darkness required for the unit to start operating. The setting is best achieved by the procedure below;
  1. Set the LUX Level adjustment knob fully clockwise (Sun symbol).
  2. When the ambient light level reaches the level of darkness at which you wish the lamp to become operative (i.e. at dusk) slowly rotate the control in an anti-clockwise direction until a point is reached where the lamp illuminates.
  3. Leave the dial set at this point.
- At this position the unit should operate at approximately the same level of darkness each evening.
- Continue to adjust until the unit operates as desired.

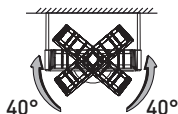
## 8. Lamp Adjustment

- Pan/Tilt adjustment options (Single Head).

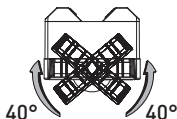
Frontwards  
Down 80°



Left & Right 40°  
(limited by wall)

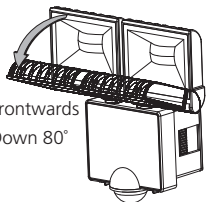


Left & Right 40°  
(with corner bracket)

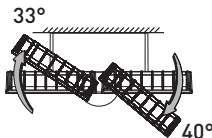


- Pan/Tilt adjustment options (Twin Head).

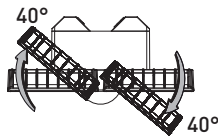
Frontwards  
Down 80°



Pan Outward 33°  
(limited by wall)  
Pan Inward 40°



Pan Outward 40°  
Pan Inward 40°  
(with corner bracket)



## 9. Manual Override

- The light can be switched ON extended periods by use of the manual override function. This can be activated after dusk by using the internal wall switch or circuit breaker.
- Switch the internal wall switch twice (OFF/ON, OFF/ON) within 2 seconds. The floodlight will now illuminate continuously for 6 hours, unless it is either switched back into auto mode, or dawn arrives prior to the 6 hour on time, which will result in the luminaire switching off.
- To reset the 6 hour ON time, switch the internal wall switch twice, (OFF/ON, OFF/ON) within 2 seconds.
- To return to auto mode, switch the internal wall switch once (OFF/ON) within 2 seconds. The floodlight will return to auto mode, and will operate normally as set up.

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## 3 Year Guarantee

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 with proof of purchase and it will be replaced free of charge. For years 2 to 3 or with any difficulty in the first year, telephone our helpline.

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.



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

Email the Timeguard Customer Helpline:

**HELPLINE**

**helpline@timeguard.com**

or call the helpdesk on 020 8450 0515

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



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Chalton, Bedfordshire, LU4 9TT

Sales Office: 020 8452 1112

or email [csc@timeguard.com](mailto:csc@timeguard.com)

**[www.timeguard.com](http://www.timeguard.com)**