



INSTRUCTION MANUAL

SL92B & SL92W

**180° PIR Twin Head
Security Floodlight**



IP65 Outdoor Installation

1. INTRODUCTION

The SL92 is a modern, high-quality twin head security light featuring a 180° PIR motion sensor. Powered by advanced 20W high-lumen COB LED technology, it delivers a powerful and efficient lighting solution suitable for both residential and commercial use. Housed in a sleek black IP65 rated casing, the SL92 combines style with durability. The light heads are constructed from premium quality polycarbonate and reinforced with robust aluminium tubing, ensuring excellent heat dissipation and uniform light distribution, ideal for areas requiring dependable illumination and enhanced safety. The integrated PIR motion sensor adds a vital layer of security by activating the light upon detecting movement. An integral photocell prevents operation during daylight, promoting energy efficient performance. Adjustable controls provide flexibility for setting the lux level, illumination duration and sensitivity, allowing users to tailor the light to specific needs. The motion sensor offers a horizontal detection range of 180° and a coverage distance of approximately 12 meters, ensuring wide and effective surveillance.

2. SPECIFICATIONS

Function	Range
Voltage	220 - 240V AC
Power Frequency	50/60 Hz
Ambient Light	<3 - 2000 Lux
Power	20 Watt COB LED, 5000k
Lumen	2400 Lumen
Time Delay	10 sec (±3 sec) to 5 min (±1 min)
Detection Area	180°
Detection Distance	5m - 12m Max
Detection Motion Speed	0.6 - 1.5m/s
Mounting	Wall and Ceiling Mountable

Function	Range
Working Temperature	-20~40°C.
Working Humidity	<93% RH
Power Consumption	Approx. 0.5W
Installation Height	1.8 - 2.5m
PIR Swivel Head	170° (L to R), 90° (Up/Down)
Light Swivel Head	90° (L to R), 170° (Up/Down)
IP Protection	IP65 Outdoor
Warranty	5 years
Standards	IEC 60669-1, IEC 6099-2-1 AS/NZS 60669.1, AS/NZS 60669.2.1

3. FUNCTION

a. Sensor Can identify between day and night (Lux Mode):

The consumer can adjust working state in different ambient light. It can work in the day time and at night when it is adjusted on the "☀" (sun) position (max). It can work in the ambient light less than 3 LUX when it is adjusted on the "☾" (moon) position (min). As for the adjustment pattern, please refer to the testing pattern.

b. Adjustable SENS (Sensitivity Mode):

Can be adjusted according to location. The detection distance of wall mounting (5 - 12 metres)

c. Time-Delay is added continually:

When the sensor detects movement while the light is already on, the countdown timer resets. This means the light will remain On for the full set duration from the moment of the latest detection.

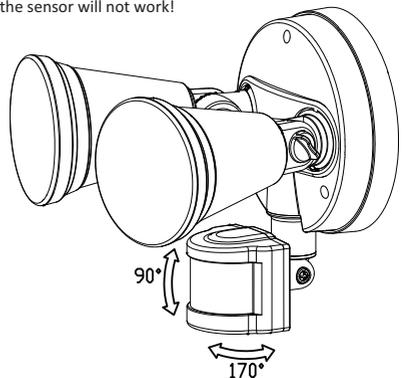
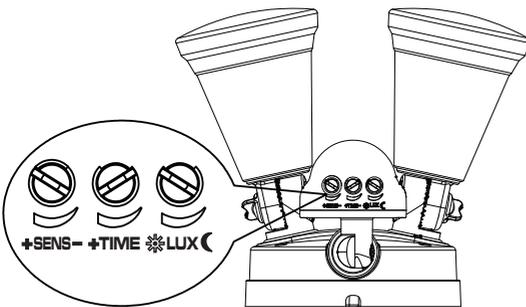
d. Adjustable Time Delay:

The sensor can be set according to the consumer's desire, " - " minimum of 10 seconds to " + " maximum of 5 minutes

4. CONTROL SETTING INFORMATION

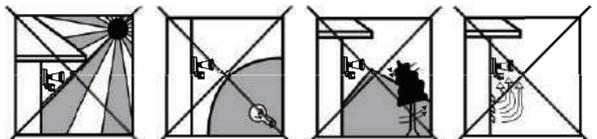
- Turn the TIME knob counterclockwise to the (-) symbol for minimum. Turn the LUX knob clockwise to the maximum "☀" (Sun).
- Switch on the power; the sensor will require 30 seconds to warm up. Once the sensor detects movement, the lights will turn On. If no other movement is detected within the time duration set, the light will turn Off within the 10 seconds ±3 sec.
- Turn the LUX knob counterclockwise to the minimum "☾" (Moon). If the ambient light is more than 3 Lux, the sensor is not able to function. If the ambient light is less than 3 Lux (dark), the sensor will operate.

Note: When testing in daylight, please turn Lux knob to ☀ (Sun) position, otherwise the sensor will not work!

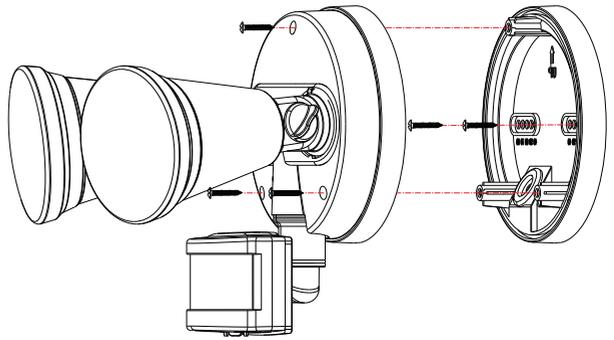
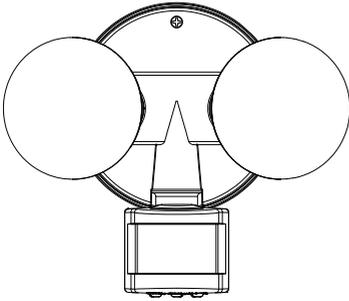


5. INSTALLATION ADVICE

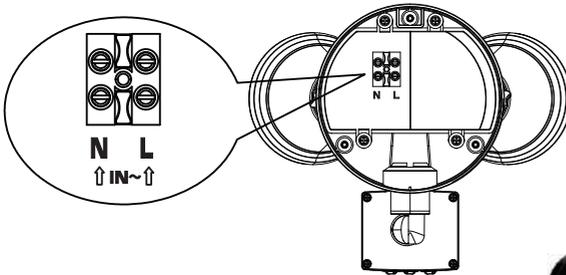
- Avoid pointing the detector towards objects with highly reflective surfaces, such as mirrors etc.
- Avoid mounting the detector near heat sources, such as heating vents, air conditioning units, light etc.
- Avoid pointing the detector towards objects that may move in the wind, such as curtains, tall plants etc.



6. INSTALLATION & WIRING INFORMATION



- Unscrew and remove fixing bracket from base of the light.
- Insert the power cable through the rubber seal and the slot provided.
- Connect the power cable into the terminal block as per the wiring diagram.
- Identify the ideal field of view and use fixing bracket mounting holes to ensure correct alignment for motion sensor.
- Drill holes and screw the fixing bracket to the marked location.
- Reconnect the light to the fixing bracket and fasten the screws.
- Once installation is complete, swivel the light heads to point in the intended direction, secure it, and turn on the power to test.

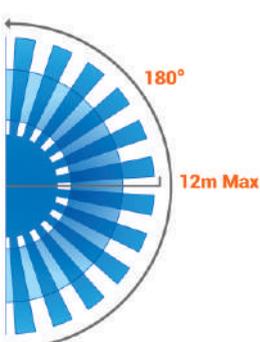


WARNING: Danger of Death Through Electrical Shock

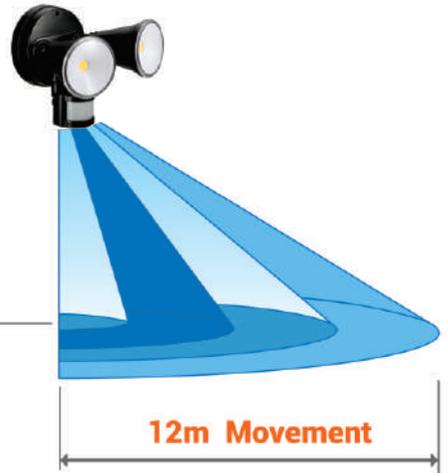


- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shield any adjacent live components.

7. SENSOR INFORMATION



12m Max Movement Range



Good Sensitivity



Poor Sensitivity

Note: The PIR sensor operates by detecting motion when the detector beams are interrupted, typically by the movement of an object or a walking person. If a person walks directly in front of or towards the beam, the sensor may not detect movement. However, when two beams are crossed, the PIR sensor detects movement, as it picks up the change in the infrared radiation pattern caused by the interruption of both beams. This method increases detection accuracy and reduces the chances of false or non-detection.

8. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	PROPOSED SOLUTION
Light or load does not turn on when movement is detected	1. No mains voltage	<ul style="list-style-type: none"> • Ensure connections to the power source and load is correct • Check the Circuit breakers and switches • Ensure supply voltage is between 220V and 240V AC
	2. Surrounding light may be too bright	<ul style="list-style-type: none"> • Check if the Lux setting corresponds with the ambient light conditions • Adjust direction of PIR sensor may assist or relocate PIR sensor
	3. Control settings incorrect	<ul style="list-style-type: none"> • Check if the Time delay is set to your required settings • Check the Sensitivity and Lux settings
	4. Sensor positioning is incorrect	<ul style="list-style-type: none"> • Check if there is any hindrance in front of the detector which may affect the reception of signals • Check if the PIR sensor field of view is aiming in the correct direction • Check if the ambient temperature is below 40°C • Confirm the installation height is between 1.8m and 2.5m
Light turns ON for no apparent reason (Intermittant fault)	1. Animals, birds or moving trees	<ul style="list-style-type: none"> • Check the Sensitivity setting, reduce if required • Adjust direction of PIR sensor may assist
	2. Heat sources such as air conditioners, vents, heat extractor ducts or moving vehicles	<ul style="list-style-type: none"> • Sensitivity adjustment may be required • Redirection of PIR sensor may assist • Control settings may have been set at daytime which can affect the night distances and sensitivity. Reset at night
	3. Light fitting heat	<ul style="list-style-type: none"> • Adjust direction of sensor or light fitting to a minimum of 50mm between the two units • Relocate PIR sensor or light fitting
	4. PIR Sensor affected when switching On/Off lights, fans or electrical devices on the same circuit	<ul style="list-style-type: none"> • Check for an arcing fault in the switches • Connect the PIR sensor to separate circuit
Light remains ON continuously	1. Control settings incorrect	<ul style="list-style-type: none"> • Check Time delay setting • Check the Sensitivity and Lux levels
	2. False Triggering	<ul style="list-style-type: none"> • Redirection of PIR sensor may assist • Check the controls for Sensitivity and Lux levels
	3. Interference by sunlight	<ul style="list-style-type: none"> • Control settings may have been set at daytime which can affect the night distances and sensitivity. Reset at night



MAJOR TECH (PTY) LTD

South Africa



www.major-tech.com

✉ sales@major-tech.com

Australia



www.major-tech.com.au

✉ info@major-tech.com.au

