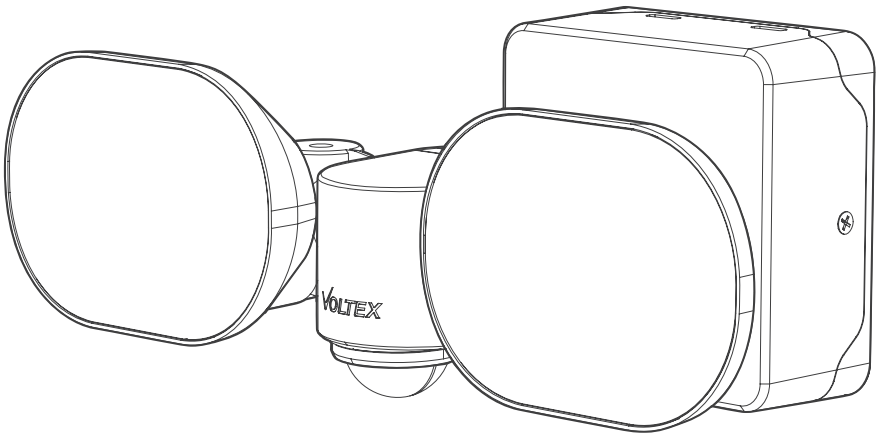
VOLTEX®

OUTDOOR SENSOR-LIGHT

OMSL2W and OMSL2B

Installation Manual

07 YR WARRANTY



IMPORTANT INSTALLATION, USER & WARRANTY INSTRUCTIONS

This device must be installed by a licensed electrician in accordance with national and local building regulations and the Australian and New Zealand wiring rules AS/NZS 3000 latest edition.

Electrical Specifications	
Operating Voltage	230/240 V AC
Frequency	50Hz
Driver	Built in driver
Lighting output wattage	30W
Auxiliary Relay output maximum wattage	LED Lighting 100W Incandescent Lighting 100W Fluorescent Lighting 100W
Insulation	Double Insulated
Dimmable	No
Manual override	Yes (See pg. 4,7 & 8)
Terminal size	Suitable for 3 x 2.5mm² cables

Sensor Specifications	
Sensor type	PIR (passive Infrared)
Ambient light level adjustment	5 Lux to full daylight
Auto OFF time adjustment	5 seconds to 30 minutes
Sensitivity adjustment	Yes
Warm-up time	Approximately 20 seconds
Detection range (Note: Detection range will vary, depending on the ambient temperature and the direction of movement)	5 - 12m Range (Sensor parallel to ground)
Detection angle	120°

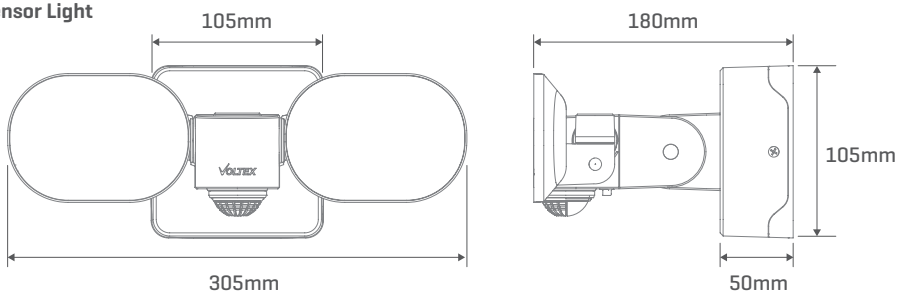
Mounting	
Optimum Mounting height	2.5m
Mounting Orientation	• Vertical (wall) • Horizontal (under eave)
Material	PC (UV stabilised), HDPE (Lens only)
Colour	White, Black
Protection Rating	IP55
Operating Temperature	-10°C to +50°C

Lighting Specifications	
Lighting Power	Switch selectable •2 x 15W (high output) •2 x 7.5W (low output)
Lumen Output	2 x 15W: 3500 lm (total) 2 x 7.5W: 1900 lm (total)
Colour Temperature	Switch selectable •3000K Warm White •4000K Neutral White •5000K Cool White
Colour Rendering Index	Ra > 80

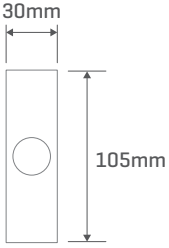
Compliance
AS/NZS 60598.2.5:2018 [with AS/NZS 60598.1:2017 +A1 +A2]
AS 61347.2.13:2018 [with AS/NZS 61347.1:2016 +A1]
AS/NZS CISPR 15
AS/NZS 60669

DIMENSIONS

Sensor Light



Conduit Entry Box (Optional)



OPERATIONAL OVERVIEW

Auto Mode (Sensor Mode)

In Auto mode, when movement is detected, and the ambient light level is below the Lux setting, the load will turn ON automatically. When no movement is detected and the delay time has expired, the load will turn OFF automatically.

Manual Override Mode

The sensor-light includes two inbuilt options for the installer to provide a manual override.

1. The sensor is bypassed to turn the lights ON for 8 hours, regardless of movement or light level. After 8 hours the sensor reverts to normal Auto operation. This method does not require any additional connections at the sensor, just an override switch. The override can be cancelled by the user any time during the 8 hours of operation.

2. The sensor is bypassed to turn the lights ON, regardless of movement or light level. The sensor reverts to normal Auto operation when the manual override switch is turned off. This method requires an additional 240V switch wire at the sensor.

See sensor wiring section for further details.

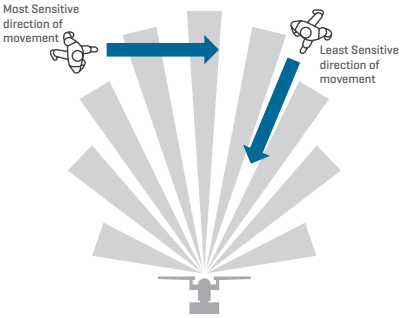
LOCATING THE SENSOR LIGHT

The sensor's coverage and sensitivity is optimal when the sensor is mounted at a height of 2.5m. The sensor responds to changes in temperature; therefore, the following conditions should be avoided.

- Avoid aiming the sensor towards objects with reflective surfaces, such as glass
- Avoid mounting the sensor near heat sources, such as air conditioners or metal roofs.
- Avoid aiming the sensor towards objects which move in windy conditions, such as large plants or trees.

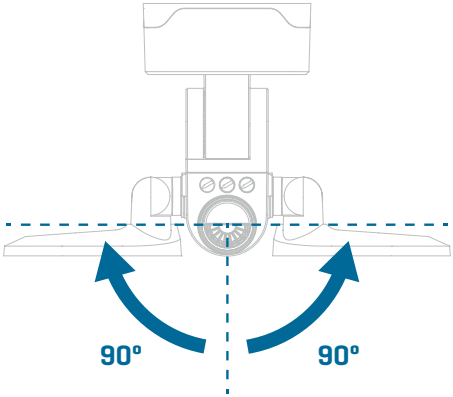
SENSITIVITY TO MOVEMENT

The sensor has the highest sensitivity with movement across the detection area, and a reduced sensitivity with movement directly towards the detection area. The detection range will be substantially reduced with movement directly towards the sensor.



ROTATING THE SENSOR

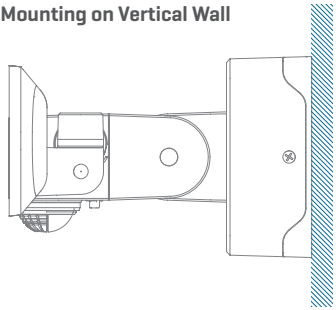
If required, the sensor can be rotated by up to 90 degrees clockwise or anti-clockwise to optimise movement detection.



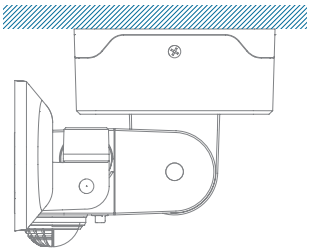
MOUNTING THE SENSOR LIGHT

The sensor-light is suitable for mounting on a wall or under an eave.

Mounting on Vertical Wall



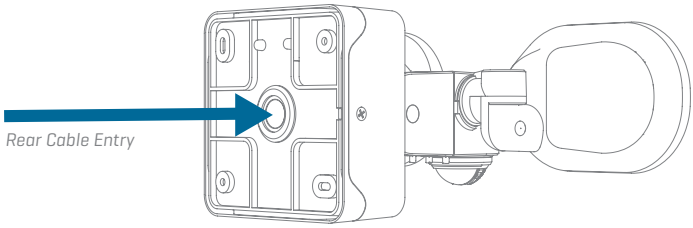
Mounting Under Eave



The sensor light must be mounted at a height greater than 1.7m. Easily mounted into place, with a tight fit allowing you to use both hands to install both screws either side of terminal base.

Rear Cable Entry

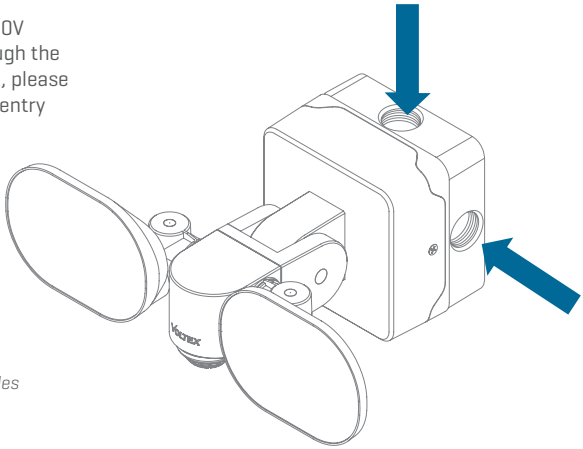
When bringing the 240V cabling into the sensor-light through the rear of the product, a cable entry is provided in the base of the sensor light.



Rear Cable Entry

Bottom/Top/Side entry

When it is required to bring the 240V cabling into the sensor-light through the top, bottom or side of the product, please use the included optional conduit entry box.



The optional conduit entry box provides Side/Top/Bottom Conduit Entries

NOTE ON MAINTAINING IP55 RATING

- Cable entries must be sealed appropriately with a silicone sealant.
- All edges in contact with the mounting surface must be sealed appropriately with a silicone sealant

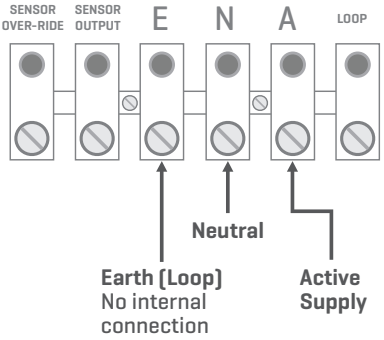
WIRING DIAGRAMS

IMPORTANT: This device must be installed by a licensed electrical contractor or electrician and in accordance with national and local building regulations and the Australian and New Zealand wiring rules AS/NZS 3000 latest edition thereof

The sensor requires an Active and Neutral connection to operate. Additional electrical connections may be necessary if additional features (such as the 240V switched output) are required.

Wiring diagram for Automatic operation

When the sensor light is always to be triggered by movement, with no manual override, the connections required are shown below.

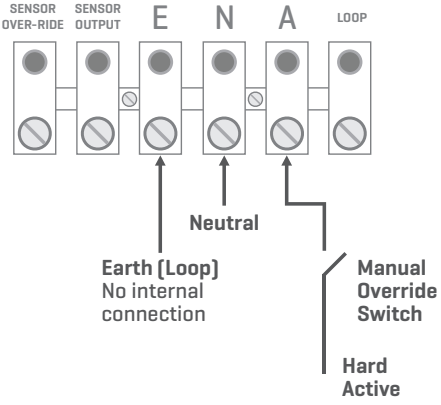


Wiring diagrams for a Manual Override

Option 1 – Using the Active supply to manually override the sensor

This option is sometimes called a 'double flick switch override'.

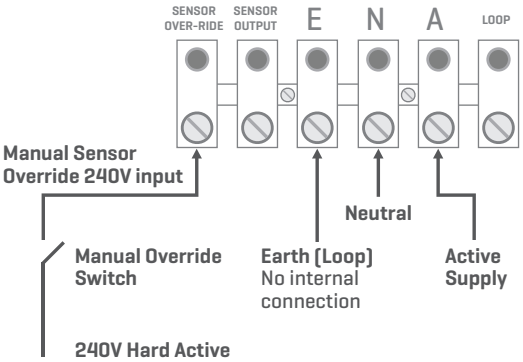
When wired as shown in the diagram on the right, the sensor can be bypassed to turn the load ON for 8 hours, regardless of movement or light level. After 8 hours the sensor reverts to normal Auto operation.
With the manual override switch ON, switch the manual override **OFF → ON → OFF → ON** quickly (within 2 seconds). The sensor enters manual override for 8 hours.
When in override mode, the sensor can be set back to Auto mode by turning the override switch **OFF → ON** quickly (within 1 second). The load will turn OFF and the sensor reverts to Auto mode.



Option 2 –The 'Sensor Override' input manually overrides the sensor.

This option uses a dedicated 240V switched input. It does not require a 'double flick' and does not time out after 8 hours.

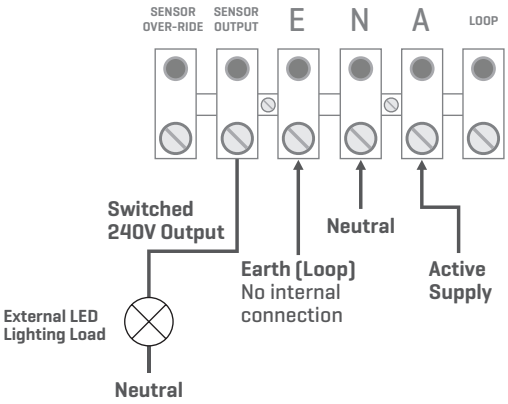
When wired as shown in the diagram on the right, the sensor can be bypassed to turn the load ON, regardless of movement or light level.
Using this option, when the manual override switch is closed, the lights come ON and stay ON. When the switch is opened, the lights switch OFF and the sensor reverts to normal Auto operation.



Wiring diagram for controlling an external lighting load (optional)

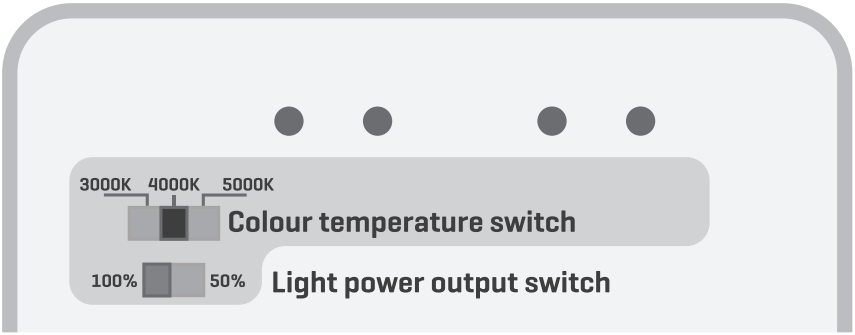
The sensor-light includes a relay output to control an external lighting load, if required. The external load switches on/off together with the two integrated LED Lights.

The switched relay output and the associated circuitry is intended to be protected by an external overcurrent protective device located at the main switchboard. The installer must ensure that the circuit is protected by a device rated in accordance with the manufacturer's specifications and relevant wiring rules (e.g., AS/NZS 3000).



Sensor - Initial Check

1. Set the LUX dial to the required activation light level. To set the unit up so it only activates after dark, turn the Lux dial all the way anticlockwise to the 'moon' symbol.
2. Set the TIME dial to the required time out.



Colour temperature switch

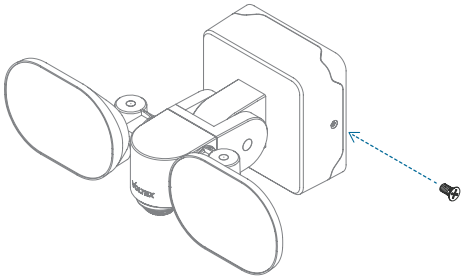
The colour temperature can be set to:

- 3000K (Warm white)
- 4000K (Neutral white)
- 5000K (Cool white)

Light power output switch

The light output can be set to:

- 100% output (30W, 3500 lumens)
- 50% output (15W, 1900 lumens)

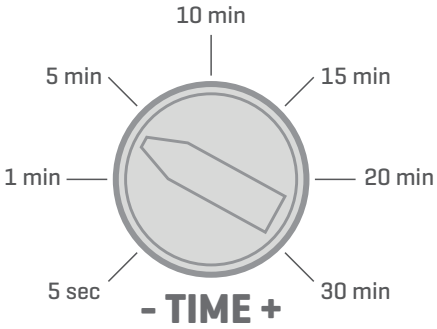


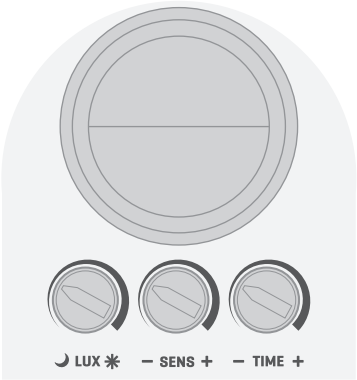
When the colour temperature and light power output have been set and the light-sensor is installed on the base, ensure both lock nuts are installed and tightened.

SENSOR SETUP

To setup the sensor, use the three adjustment dials located next to the sensor head

- **Lux:** 5 Lux to full daylight
- **Sensitivity:** Min to Max
- **Time:** 5 seconds (for testing) to 30 minutes





Sensor - Walk Test Procedure

1. If not already powered up, energise the sensor-light and wait 20 seconds (for the sensor to initiate)
2. Rotate the LUX dial all the way clockwise to Daylight symbol
3. Rotate the SENS dial all the way clockwise to + symbol. This will set the sensor to activate, regardless of the current light level
4. Rotate the TIME dial all the way anticlockwise to the '–' symbol. This will set the sensor-light to switch ON when movement is detected and stay on for 5 seconds when movement is not detected
5. Walk around the required detection area to confirm the sensor is activated successfully from within this area. Refer to page 4.
6. Adjust the sensitivity if required and repeat the walk test.

Note:
The included lens shield can be used to limit the detection range if required.

NOTES

Voltex warrants all its Outdoor Sensor-light against defective workmanship and faulty materials for 7 years from the original date of purchase. Please retain proof of purchase and electrical certificate of compliance.

Contact Voltex Electrical on 1300 722 275 (Australia) or 0800 55 66 33 (New Zealand) for any warranty claims.

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