

**INSTALLATION / WARRANTY INSTRUCTIONS**

**PRODUCT BRAND: PIERLITE**

**PRODUCT NAME: ECOSET SENSOR**

**PRODUCT CODE: ECOSETSENSPIR**

Issue Date: 11 DEC 2023

Please read these installation instructions carefully before installing or maintaining this equipment. The product is designed for installation and maintenance in accordance with relevant Australian standards (AS/NZ3000), by an authorised and licensed electrician. The installation instructions were correct at the time of print. To reflect changes in technology and Australian and New Zealand standards; Pierlite reserves the right to amend the instructions without notice. Updated guidelines can be found on relevant brand web site.



**1. PRODUCT SPECIFICATION:**

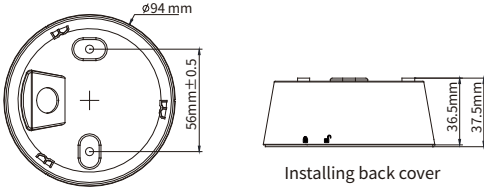
Type of Protection	Class II
Body Material	Polycarbonate
Finish	White
Circuit Wattage	Please refer to next table
Nominal Voltage	220-240Vac
Maximum load	4 A (Resistive load)
Power consumption Stand-by	<1.2W
Nominal Freq. (Hz)	50/60Hz
Load peak inrush current	100A
Applicable wire range	0.75 to 1.5mm <sup>2</sup>
Switch off delay	2(default)/ 5 / 15 / 30 minutes
Light levels	Disable /10 /30 /100lux
Rated operating ambient temperature	40 degree Celsius
IP Rating	IP20 for interior use only
Suitable for direct mounting on flammable surfaces	YES
Installation orientation	Surface Mount/Recessed Mount
Installation type	Fixed
Designed application	Interior commercial (Interior)
Electrical connection	hard wired
Dimensions	Dimensions (Surface Mount): 94mm x 37.8mm Dimensions (Recessed Mount): 94mm x 33.5mm
Net Weight	0.14 kg
Warranty years	3 Years
Certification	AS/NZ 60669

## 2. CONSUMABLES

Nil

**3. INSTALLATION / GENERAL:** Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner and orientation that maintains the integrity of the designated IP rating of the product for electronic control equipment (when supplied) DO NOT MEGGER between A and N.

### Line Drawings



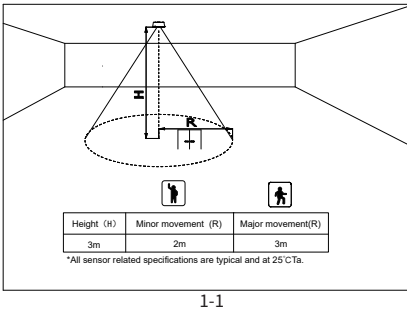
### Installation Instructions

#### Ceiling Installation

Installation height: 2.5-4m (typical value: 3m)

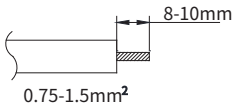
Sensing distance (Figure 1-1): radius 3M (according to NEMA test specification)

This radius is hanging at 3m height, the inspection distance will be reduced at other heights.

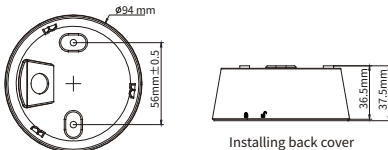


#### Surface installation method

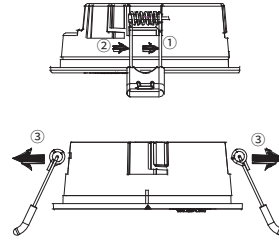
1. Connect the neutral wire N/ live wire L/ output wire OUT through the connector. The length of tin stripping is 8-10mm, and the installation wire cannot be removed easily.



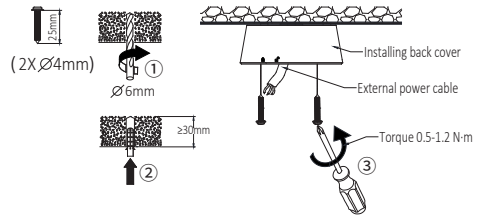
2. Remove installing back cover.



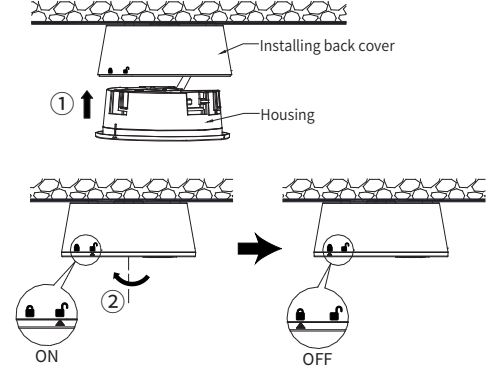
3. Remove the mounting clips on both sides.



4. Route the external power cable into the rear cover of the wall, and mount the rear cover to the required position using screws.



5. Then connect the external power line to the terminals and install the housing into the back cover. (Note: The extra external power cord should not be left inside the back cover.)

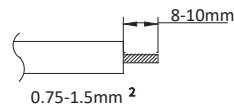


6. The concealed installation fixed position shall be able to bear the weight of  $\geq 450g$ , (Surface installation should be able to bear the weight of  $\geq 600g$ ).

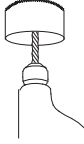
7. Product protection grade: IP20 (For indoor use only).

#### Recessed installation method

1. Connect the neutral line N/ live line L/ output line OUT through the connector. The length of tin stripping is 8-10mm, and the installation line cannot be pulled OUT easily.

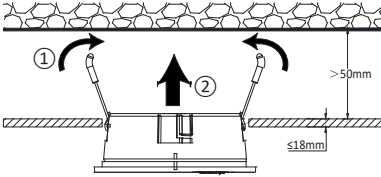


2. Opening diameter:  $\phi 85\text{-}87\text{mm}$

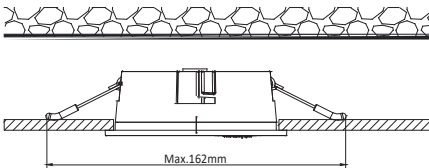


$\phi 85\text{-}87\text{mm}$

3. Then uplift the fixed spring buckle and put it into the ceiling.



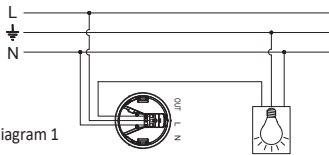
4. Finally, mount the housing together on the ceiling



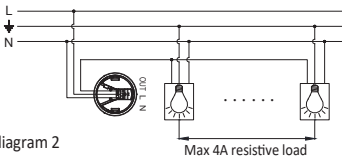
5. The concealed installation fixed position shall be able to bear the weight of  $\geq 450\text{g}$ , (Surface installation should be able to bear the weight of  $\geq 600\text{g}$ ).

6. Product protection grade: IP20 (For indoor use only).

#### Wiring diagram



General wiring diagram 1



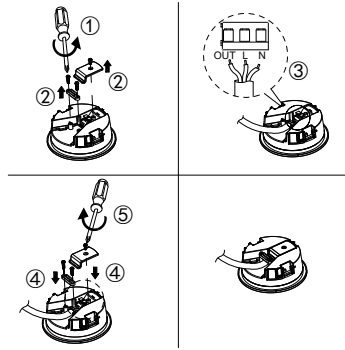
General wiring diagram 2

Load Peak Inrush Current:  $< 100\text{A}$

Calculation method of the number of loadable lamps: Divide the inrush current of the maximum load by the inrush current of the lamps.

Note: If multiple lamps are used in one area, the minimum distance between the two sensors should be 1.5m. It can prevent false triggering.

#### Wiring Steps



**4. IMPORTANT** - the product must be maintained and operated in accordance with the manufacturer's instructions, failure to do so may damage the product and services. It is strongly recommended that this important note be communicated to the owner and or operator of the installation at the time of site commissioning. Good practice does not recommend the 24/7 use of products without the application of suitable switch cycle intervals. Furthermore, with the omission of nominated survival curves and or recommended operating hours, product design expectations provide for a continual daily usage of 6 hours for residential applications and a continual daily usage of 12 hours for commercial and industrial applications. All products must be thoroughly cleaned on a regular basis at intervals that reflect in the installation environment, ensuring the optical performance, together with the electrical, mechanical, and structural integrity as designed, is maintained throughout the service life of the product.

**5. APPROVALS:** The RCM marking of this product applies to AS/NZS CISPR15 (EMC) "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS60669.



**6. STORAGE:** Prior to installation products are to be stored in cool and dry conditions.

**7. APPLICATION:** The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation installations. Installation environments outside these conditions are not recommended.

#### 8. MAINTENANCE:

(a) The supply must be isolated before opening or accessing the luminaire. Product maintenance is **IMPORTANT** and is critical to the products designed performance. The product is to be maintained in accordance with the manufacturer's instructions. For the latest product maintenance guides please go to relevant brand web site. Pierlite is not responsible for any product not maintained in accordance with the recommended procedure or intervals.

**(b) Lamps (where provided):** The product is designed with the supplied (LEDs) / LAMP/s and it is strongly recommended that any LAMP / (LEDs) changes (if any) be made in accordance with the type, colour and brand supplied. For recommended LAMP / LED maintenance or operating guides (inclusive of recommended product switch cycles and mandatory run-in procedures for HID and Fluorescent lamps when used with dimming circuits), Pierlite recommends the application of the lamp manufacturer's operating guidelines, which can be found on manufacturer's website. Pierlite is not responsible for the product performance of alternative lamp/s used. As a member of FluroCycle, we encourage recycling of lamps and components.

**(c) Battery (where provided):** The battery is designed with a rated average battery design life in standby mode, and is supported with a standard warranty (refer to product specifications for details); conditional of the product being maintained and operated in accordance with the manufacturer's guidelines and tested in accordance with AS/NZS2293. For guidelines see product installation instructions or visit the relevant brand web site.

**(d) For products supplied with glass visors or covers, do not** operate the product with a damaged visor or cover; it is recommended the product be turned off, area surrounding the product vacated, and the damaged glass replaced by a professional installer immediately.

**(e) Cables or cords (where provided):** If any external cable or cord of the X or Y type luminaire is damaged, it shall be replaced by a qualified person or manufacturer's service agent.

For Z type attachments to luminaire, cord cannot be replaced if damaged, the luminaire shall be removed from service.

Flex cord types

- X: Specially prepared flexible cable or cord, may also include a part of the luminaire and only available from manufacturer.
- Y: Attachment may be used with either an ordinary or special flexible cable/cord.
- Z: Attachment of cable/cord that cannot be replaced without damage to luminaire

**9. WARRANTY INSTRUCTIONS:** For purpose of warranty claims (if any) the following instructions apply:

**Warranty period** - The above components are provided with a warranty (refer to product specifications for details) against manufacturing defects or failure to perform to specifications for products installed by an authorised installer in accordance with the manufacturer's installation instructions and which have not been subject to incorrect operation or maintenance, unauthorised modification or damage arising from any intervening cause.

**Warranty reference** - The warranty reference date commences from the date of purchase.

**Warranty point of contact** – Pierlite, 96 Gow Street Padstow NSW 2211, phone T 1300 799 300 – Pierlite After Sales Support.

**Warranty claim procedure** – For the purpose of making a claim the customer must:

1. Contact the "point of contact" above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number.
2. At the customer's expense, collect and return the goods to the "point of contact" with the issued GRA number.
3. Upon receipt of the goods, Pierlite will review the claim and if

found to be accepted, Pierlite will return a replacement product to the customer to install at the customer's expense. Alternatively, if the claim is rejected, the customer may request the return of the goods at their expense.

**Consumer Contracts** - The benefits to the customer given by the Pierlite warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Australian Consumer Law. In that event the following statement is required to be brought to the Consumer's attention: - Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

**Limitation of Liability** – if the goods are not purchased by the customer under a Consumer Contract within the Australian Consumer Law then but not otherwise;- (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Pierlite liable to the customer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss).

**Terms of Sale** – these warranty provisions are in substitution for any inconsistent provisions in the Pierlite Terms and Conditions of Sale in so far as they apply to the warranty components.