




IMPORTANT: IN THE INTEREST OF PRODUCT PERFORMANCE AND SAFETY PLEASE READ THESE INSTALLATION AND WARRANTY INSTRUCTIONS BEFORE INSTALLING THE PRODUCT.



SAL products are designed in accordance with all mandatory International and Australian Standards, which require installation in accordance with AS/NZS3000 by a qualified installer and regular cleaning and maintenance of the equipment. Products are sold in accordance with the following instructions and SAL standard terms and conditions of sale, available via www.sal.net.au.

Due to continued product and information updates, product data sourced from sal.net.au shall not form part of any contract and or technical performance guarantee unless expressly confirmed in writing by SAL at the time of order.

MANTIS SMS806WF MULTIFUNCTION SENSOR electrical and installation specification effective 23/7/2022.

Model No.	Power (W)	Input (V)/(Hz)	Detection Distance (m)	Detection Motion Speed	Detection Angle	Working Humidity (RH)	Time Setting	Light Control (lux)	Sensor Type	Mass (N.W.g)	Body Colour
SMS806WF	 Max. 500  Max. 1000  Max. 2000 (Idle 1W)	220-240/50	Max. 18m at installation heights 1.8m-2.5m	0.6~1.5 (m/s)	110°	0~93%	10s ~ 30min	10~2000	PIR or PE	220	Grey
SMS806WF/BK											Black

Electrical class	Class II	Beam angle	N/A
Dimension (L x W x H mm)	140 x 115 x 75	Earth leakage current	N/A
Operating ambient min/max (°C)	0 to 40	Storage ambient limit (°C)	0 to 60
Operating humidity	10% to 85% RH, NC	Storage humidity	10% to 85% RH, NC
Calculated TM - 21, L ₇₀ @ 85 °C (hrs)	N/A	Reported TM - 21, L ₇₀ @ 85 °C (hrs)	N/A
Aiming restrictions (if any)	Refer dimension detail	Product application	Interior & exterior residential & commercial spaces
IK rating (if relevant)	N/A	Product installation orientation	Ceiling or wall mount
CCT (k) switch control (TC)	N/A	Dimmable	N/A
Insulation cover rating (if any)	N/A	PIXIE connectivity	No
Replaceable LED	N/A	IP rating	IP66
User replaceable LED	N/A	Attachment type	N/A
IP rating for interior products: The designated IP rating is "from below the ceiling" unless otherwise specified.			
IP rating ALL products; Termination of the product must be made in accordance with the IP rating.			
Earth Leakage current: Is calculated in accordance with AS/NZS 60598.1:2017.			

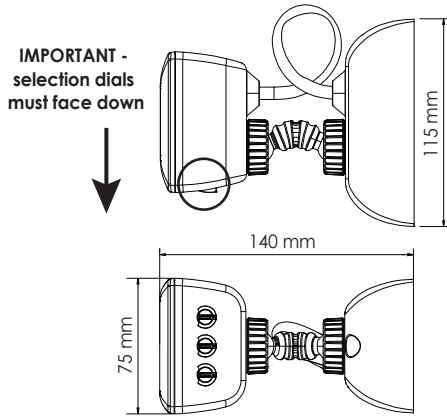
General product application requirements (if applicable) :

- CCT or POWER selections (where supplied)** – IMPORTANT, where CCT colour temperature or POWER selection switching is provided, it is important to switch OFF the power before the selection is made, otherwise equipment damage may occur.
 - Recycling** – SAL encourages recycling, please consider the environment when disposing of packaging, batteries & components.
 - Switching or test intervals** – For optimum product performance, good design practice does not encourage 24/7 operation of lighting products without the provision of a routine switching or regulatory test cycle. As a guide for continual operation installations, a twelve (12) hour duration for Industrial and Commercial applications and a six (6) hour duration for Residential applications should be considered.
 - Product maintenance** – In line with the relevant design standards and to protect your investment, it is important to have in place a routine cleaning program that reflects the installation environment and maintains the product in a clean and functional condition.
- IMPORTANT** - The supply must be isolated before any product maintenance or cleaning is conducted. In addition, damage to ANY cable or cord supplied with the product must be addressed as follows; For attachment type X having a specially prepared cable, if the external flexible cable is damaged, it must be replaced by an equivalent cable exclusively available from the manufacturer or authorised installer. For attachment type Y, if the external flexible cable is damaged, it must be exclusively replaced by an equivalent cable by the manufacturer or authorised installer. For attachment type Z, if the external flexible cable is damaged, the cable cannot be replaced and the luminaire must be destroyed.
- Adverse, corrosive and coastal installation environments** – Unless the product is specifically designated for such applications in these installation instructions, which is supported by a professional maintenance program; installation of equipment in such environments is not recommended.
 - Dimming products** – Dimming circuits and product compatibility must be validated by the installer before installation; SAL cannot be responsible for third party changes in dimmer compatibility.
 - Suspended products** – For installation safety, any suspended products must NOT be installed in high air movement spaces or locations subject to impact.
 - Light source replacements** – (Non-replaceable light sources) - The light source of the product is deemed not replaceable, when the product reaches its end of life, the complete product must be replaced by a qualified installer. (Non-user replaceable light sources) - The light source of the product must only be replaced by the manufacturer or qualified installer. **Caution, risk of electric shock.**
 - Interior downlights and sensors with remote drivers and electrical accessories** – The mounting facilities provided for the device (if any), need only be utilized if in the application of the product is required by AS/NZS3000. Drivers are not designed for installation environments that restrict conventional airflow.
 - Ripple injection, induced flicker (QLD & NSW regions)** – Installations subject to off-peak ripple induced flicker, (which are beyond the manufactures control), should strongly consider the use of circuit filtering products, or for interior downlight installations, the use of products designed to block the signal interferences, such as the SAL SFI series.
 - Floodlight products** – Unless nominated aiming restrictions or installation parameters apply, products are designed for installation environments between ground and 15 metres in height, subject to the desired optical performance being achieved. For floodlight installation environments that have restricted access (eg: columns and roof-lines) which are subject to unstable electrical supply or electrical surges (which void warranty), consideration of the installation of an independent surge protector is strongly recommended.
 - Emergency enabled products** – In the interest of transport and safety, emergency products are supplied with the battery disconnected. In addition to specific emergency commissioning instructions, this battery MUST be connected at the time of installation. Continual use in emergency mode greater than 240 hours without recharge, will result in battery failure and void battery warranty.

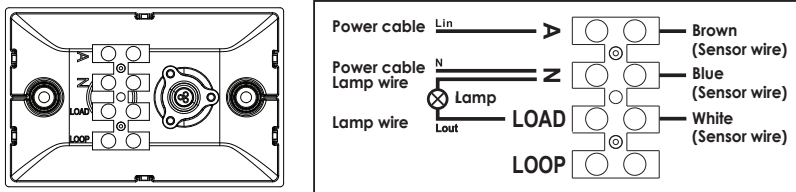


13. **Specific installation procedures** (if any) - this device must be installed by a licensed electrician:

DIMENSIONS:



WIRING DIAGRAM



OPTIONAL ACCESSORY - REMOTE CONTROL SMS806WF/RC

WARNING - KEEP BATTERIES OUT OF REACH OF CHILDREN
The remote control contains batteries, which if swallowed can cause severe or fatal injuries. THE REMOTE CONTROL IS DESIGNED FOR TRADE USE ONLY KEEP OUT OF REACH OF CHILDREN

2. PRESS once, the load will turn OFF

4. PRESS once to activate the PHOTOCELL MODE

1. PRESS once the load will turn ON

3. PRESS once, the sensor mode will operate in default settings as detailed below

3.1 HOLD (TIME) OPTIONS
10/30 seconds, 5/10/20/30 minutes

3.2 SENSITIVITY (SENS) OPTIONS
LOW, MEDIUM, HIGH

3.3 DAYLIGHT (LUX) OPTIONS
NIGHT, LOW, MEDIUM, HIGH, DAY/24h

REMOTE CONTROL FUNCTIONS:

- Pressing ON - turns the device ON. Allow warm up for 10 seconds, then the load and the indicator light will operate together.
 - Pressing OFF - turns the the device OFF.
 - Pressing the SENSOR button will activate the sensor mode, resulting in default settings of 10sec hold time, 100% distance sensitivity, daylight sensor disabled. After 10 seconds hold time, if no movement is detected, the connected load will turn off. Should movement be detected within the 10 seconds, another 10 seconds hold time will be added from the time of the detection.
SENSITIVITY, HOLD TIME AND DAYLIGHT SENSOR buttons are used to change the default settings.
 - Pressing the HOLD (TIME) will achieve 10s, 30s, 1min, 5mins, 8mins and 20mins hold time.
 - Pressing the SENSITIVITY (SENS) button achieves LOW ≈ 8M, MEDIUM button ≈ 14m, HIGH button ≈ 18M .
 - Pressing the DAYLIGHT (LUX) button achieves < 10LUX(NIGHT), LOW button ≈ 25LUX, MEDIUM button ≈ 250LUX, HIGH button ≈ 500LUX, DAY/24H button =24 hour operation.
 - Pressing the PHOTOCELL button will activate the photocell mode. The load will turn ON - OFF - ON once and then enter PHOTOCELL control mode. Photocell range is < 10 LUX (ON) to >150 LUX (OFF).
- IMPORTANT:** When changing from ANY mode to another mode on remote control, the load will turn ON and OFF as well as a "red" led light flash in the sensor lens, will indicate the function has been changed.

MANUAL OVERRIDE MODE

- How to activate override mode:**
When the sensor is in automatic sensor mode and the light is ON, switch the wall switch twice(OFF-ON-OFF-ON) within 5 seconds, the sensor will turn ON-OFF-ON and enter the override mode. The red indicator LED will then illuminate continuously, the sensor is now in an 8-hour override mode. After this period times out, the sensor will return to the automatic operation mode.
 - How to return to automatic sensor mode:**
Switch off the wall switch, wait 10 seconds and then switch it back on, then the sensor will be back in automatic sensor mode.
- IMPORTANT:** If the power is off for LESS than 10 seconds, the override mode will remain.

MANUAL SENSOR MODE:

- Daylight (LUX) threshold dial: Adjust the working state in different values of ambient light. The sensor can operate in the daytime and at night when it is adjusted to the "LUX" position (max). It can operate in an ambient light less than 10LUX when it is adjusted to the "LUX" position (min).
- Sensitivity (SENS) dial: It can be adjusted according to application. The detection distance is a maximum of 18m.
- HOLD (TIME) dial: HOLD time is added continually. When it receives a second movement signal within the duration of the first detection, it will restart the time delay from the second signal.

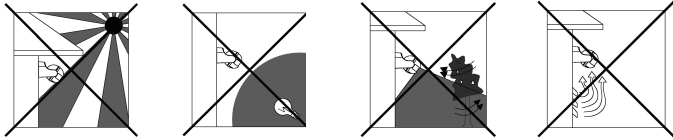
MANUAL PHOTOCELL MODE:

- How to activate the photocell mode:**
When the sensor is in automatic sensor mode and the connected load is ON, switch the controlling switch three times (OFF-ON-OFF-ON-OFF-ON) within 5 seconds, the sensor will then revert to the photocell mode.
 - Once the photocell mode activated, the red sensor indicator light will continually flash.
 - In photocell mode, when the ambient light is daytime (>150LUX) the connected load turns off after 10 seconds and when the ambient light is night-time (<10LUX), the connected load will operate continuously.
 - How to return to automatic sensor mode:**
Switch off the wall switch, wait 10 seconds and then switch it back on, then the sensor will revert to the automatic sensor mode.
- IMPORTANT:** If the power is off for LESS than 10 seconds, the photocell mode will remain. Need to power off 10 seconds before manually changing from photocell to override mode.



INSTALLATION ADVICE - As the sensor responds to changes in temperature, avoid the following situations:

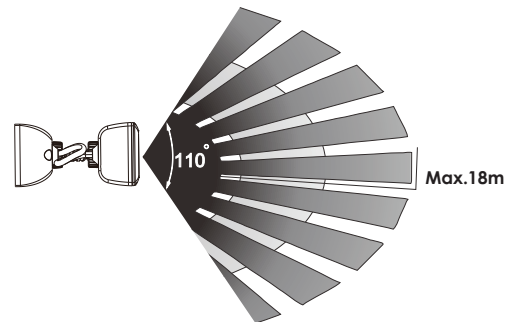
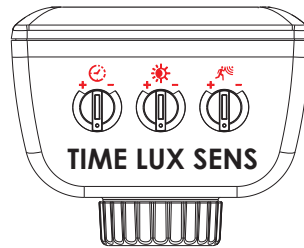
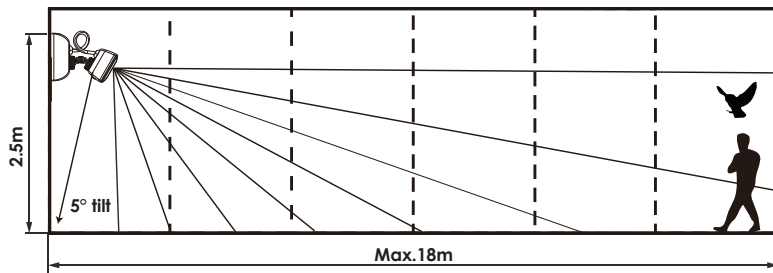
- Avoid pointing the sensor towards objects with highly reflective surfaces, such as mirrors etc.
- Avoid mounting the sensor near heat sources, such as heating vents, air conditioning units, light etc.
- Avoid pointing the sensor towards objects that may move in the wind, such as curtains, tall plants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



TEST AND COMMISSIONING:

1. Turn the TIME dial anti-clockwise to the minimum (-).
2. Turn the SENS dial clockwise to the maximum (+).
3. Turn the LUX dial clockwise to the maximum (+).
4. **Note:** when testing in the daylight, please turn LUX dial to (Max) position, otherwise the sensor will not operate.
5. Switch on the power; after Warm-up 30sec, the sensor will commence operating.
6. When the sensor receives the signal, the lamp will activate, whilst there is no movement detected, the connected load will cease operating within 10sec.
7. Turn the LUX dial to the minimum (-). When the ambient light is MORE than 10LUX, the sensor will not activate the load. When the ambient light is LESS than 10LUX (darkness), if a movement is detected, the sensor load will commence operating. if no movement detected, the sensor load will cease operating within 10 sec.

SENSOR DETECTION RANGE:



TROUBLE SHOOTING:

- The connected load does not operate:
 - a. Check if the connected power source and load is correct.
 - b. Check if the settings of connected load correspond to ambient light.
- The sensitivity is poor:
 - a. Please check if there is any hindrance in front of the detector to affect it to receive the signals.
 - b. Check if the ambient temperature is too high.
 - c. Check if the signal source is in the detection field.
 - d. Check if the installation height corresponds to the height required in the instructions.
 - e. Check if the moving orientation is correct.
- The sensor does not turn off the connected load automatically:
 - a. Check if there is continual signal in the detection field.
 - b. Check if the time delay is set to the maximum position.
 - c. Check if the power corresponds to the instructions.

14. Warranty – In accordance with SAL's standard terms and conditions of sale, SAL warrant this product to be free from defects in materials and or workmanship for a period as stated below for goods not subject to incorrect installation, maintenance, operation, mishandling, environmental, unauthorised modifications or electrical operating conditions outside the nominated product specification as detailed in these installation instructions. The benefits to you given by this warranty are in addition to other rights and remedies you have under law. 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 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.

Warranty term – Residential usage (60) months, Commercial usage (60) months, Replaceable Lamps (where supplied) (12) months and Lithium batteries where supplied (24) months from date of purchase. For New Zealand, please refer to www.sal.co.nz for warranty conditions and service.

How to make a claim?

Step # 1 – Within 30 days of the fault discovery, please contact the original place of the SAL product purchase during standard (local) business hours, with the following information **(a)** proof of purchase **(b)** description and quantity of the claimed fault **(c)** address of installation. **(d)** operating hours of the product.

Step # 2 – It is then the responsibility of the original place of product purchase to report the matter to SAL aftersales;

NSW ACT	- SAL National Pty Ltd, 40 Biloela Street Villawood NSW 2163	P # 02 9723 3099
QLD	- SAL National Pty Ltd, 36 Whitelaw Place Richlands QLD 4077	P # 07 3879 5999
VICT TAS	- SAL National Pty Ltd, 46-48 Keys Road Moorabbin Victoria 3189	P # 03 9532 3168
SA NT	- SAL National Pty Ltd, Unit 1, 9 Alfred Avenue, Beverley SA 5009	P # 08 7084 1958
WA	- SAL National Pty Ltd, 29 Beringarra Av Malaga WA 6090	P # 08 9248 7458
NZ	- Hamer, 130 Bush Road, Albany, Auckland, 0632	P # 0800 239 239

Step # 3 – Upon review of your claim and if the product is required to be returned to SAL for technical evaluation, then at the owners expense the product must be returned to SAL as per the above nominated locations.

Step # 4 – Pending the evaluation, the claim will be validated resulting in the product being repaired or replaced with the same or best equivalent product at the discretion of SAL, or rejected if the product fault was found to be caused by conditions beyond the responsibility of SAL warranty obligations. Consideration of installation, product removal, return freight and or testing fees are not the responsibility of SAL.

