

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 AS/NZS 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.

BENNY SL2106 TC LED OYSTER LIGHT electrical and installation specification effective 26/9/2023.

Model No.	Input (V)/(Hz)	Power (W)	Lumens (lm)	Line Current (A)	In-rush Current (A)	CCT (K)	CRI	Mass (N.W. g)	Dimension L x W x H (mm)
SL2106/20TC	240/50	10	800	0.09	18.6A MAX.@100µs	3000/4000/6000	>80	425	220 x 65 x 204
SL2106/30TC	240/50	20	1600	0.18	18.8A MAX.@100µs	3000/4000/6000	>80	695	280 x 71 x 263
SL2106/30TC/S	240/50	20	1600	0.18	18.8A MAX.@100µs	3000/4000/6000	>80	695	280 x 71 x 263
SL2106/40TC	240/50	24	2000	0.22	16A MAX.@100µs	3000/4000/6000	>80	1081	350 x 81 x 332
SL2106/40TC/C	240/50	24	2000	0.22	16A MAX.@100µs	3000/4000/6000	>80	1081	350 x 81 x 332

Integrated microwave motion sensor settings are **FIXED** and are adjustable only by a qualified installer.

Model No.	Detection Range	Daylight Threshold	Duration
SL2106/30TC/S	Max. 8m	Disabled	10 mins
SL2106/30TC/S1	Max. 8m	10 Lux	10 mins
SL2106/30TC/S2	Max. 8m	10 Lux	5 mins



Integrated microwave motion sensor with standBY function for SL2106/40TC/C are **FIXED** and are adjustable only by a qualified installer.

Model No.	Detection Range	Daylight Threshold	Duration	Standby Level	Standby Period
SL2106/40TC/C	Max. 8m	Disabled	12 mins	20%	30 mins
SL2106/40TC/C1	Max. 8m	10 Lux	6 mins	30%	30 mins
SL2106/40TC/C2	Max. 8m	10 Lux	6 mins	20%	24 hrs



Electrical class	Class II	Beam Angle	120°
Power factor	0.9	Earth Leakage current	< 1mA
Operating ambient min/max (°C)	-20 to 40	Storage ambient limit (°C)	0 to 50
Operating humidity	10% to 85% RH, NC	Storage humidity	10% to 85% RH, NC
Calculated TM - 21, L ₇₀ @ 85 °C (hrs)	51,000	Reported TM - 21, L ₇₀ @ 85 °C (hrs)	> 36,000
Aiming restrictions (if any)	No	Product application	Residential and Commercial interior or exterior spaces
IK rating (if relevant)	08	Product installation orientation	Horizontal ceiling mount
CCT (k) switch control (TC)	Yes	Dimmable	No
Insulation cover rating (if any)	N/A	PIXIE connectivity	Yes, switch only
IP rating	IP65	Attachment type	N/A
Replaceable LED	No (see clause 8)	User replaceable LED	No (see clause 8)

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/NZ 60598.1.2013 table 10.3.

General product application requirements (if applicable) :

1. **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.

2. **Recycling** – SAL encourages recycling, please consider the environment when disposing of packaging, batteries & components.

3. **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.



4. **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.

5. **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.

6. **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.

7. **Suspended products** – For installation safety, any suspended products must NOT be installed in high air movement spaces or locations subject to impact.

8. **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.**

9. **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.

10. **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.

11. **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.

12. **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:

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1. Switch off

Model No.	FC(mm)
SL2106/20TC	204
SL2106/30TC	263
SL2106/30TC/S	263
SL2106/40TC	332
SL2106/40TC/C	332

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Select then CCT with the DIP switch

Switch: 3000K/4000K/6000K

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Test and energize.

To adjust sensor function (by a qualified installer only)

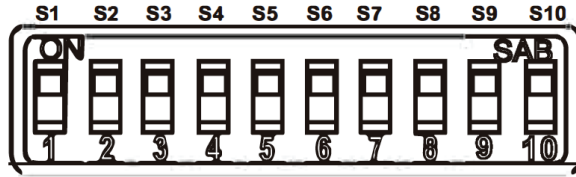
Step 1 - Power OFF.
Step 2 - carefully insert a flat head screwdriver to the edge of the visor and lever out the diffuser and repeat the action for a total of four (4) tabs.

Step 3 - adjust sensor functions as per instruction guidelines

Step 4 - reinstate visor, aligning the four tabs and carefully lever the tabs into place.

Specifications settings - (TC/C model)

S1, S2 - set sensitivity;
S3, S4 - set time;
S5, S6 - set the lux threshold;
S7, S8 - set standby brightness level;
S9, S10 - hold standby period



Reach setting (sensitivity)

Reach is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 2.5m, switch to the on is "1", switch to the off is "0"; The corresponding file of switch location and detection distance as follow:

S1	S2	Sensitivity	S1	S2	Sensitivity
0	0	25%	1	0	75%
0	1	50%	1	1	100%

NOTE: The above detection distance is measured using a person who is between 1.6m-1.7m tall with an average build, moving at a speed of 1.0-1.5m/sec. If any of these variables are changed, the detection distance will also resultantly change.

Hold time, brightness 100%

Time can be set 10s to 12min. Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest lime for adjusting the detection zone and for performing the walk test. Switch to ON is "1", switch to OFF is "0"; The corresponding switch locations and detection distances as follow:

S3	S4	Hold time	S3	S4	Hold time
0	0	10s	1	0	6min
0	1	1min	1	1	12min

NOTE: After the light switches OFF, it takes approx. 1sec before it is able to start detecting movement again. The light will only switch on in response to movement once this period has elapsed.

Lux level - threshold

The light threshold can be set from approx. 10lux-50lux. switch to ON is "1", switch to OFF is "0"; the corresponding switch locations and detection levels are as follow:

S5	S6	Light level	S5	S6	Light level
0	0	24H	1	0	30LUX
0	1	10LUX	1	1	50LUX

Standby level setting

Switch to ON is "1", switch to OFF is "0"; the corresponding switch locations

S7	S8	Standby level	S7	S8	Standby level
0	0	0	1	0	20%
0	1	10%	1	1	30%

Hold time, standby period

The switch locations and detection distances are as follows:

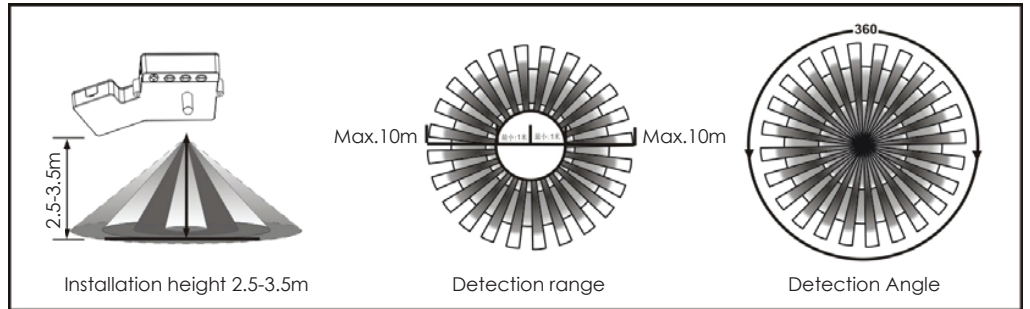
S9	S10	Standby period	S9	S10	Standby period
0	0	24H	1	0	30MIN
0	1	1MIN	1	1	60MIN



Specifications settings - (TC/S model)

Max power: 1200W
Time delay: 10 - 30 s e c
Detection angle: 360°
Light level: 10-2000 LUX

Installation height and detection range at 2.5hm



Detection range (1-10m)



This range is the radius of the approximate circular detection area that appears on the ground when it is installed at a height of 2.5 meters (radius).

NOTE: The detection distance value is measured by a human body with a height of 1.7 m, medium body shape and a walking speed of 1.0~1.5 m/s. If the height, shape or walking speed of the user changes, the sensing distance will also change.

Delay time 10-30 sec



The time delay can be set from 10 seconds (full counterclockwise) to 30 minutes (full clockwise) before the time expires. When turning the dial to set the time, the time will restart when a motion signal is detected. It is recommended to choose the shortest time when adjusting the detection range or walking test. The light will flash accordingly, and different times of flashes correspond to different times.

NOTE: (1) **The load will not illuminate until** - warm up has elapsed (4 seconds) ,
(2) **rotation to set the delay time** - 1 = 10sec, 2 = 1min, 3 = 2min, 4 = 5min, 6 = 10min, 7 = 15min, 8 = 20min, 9=25min, 10=30min.

lux threshold setting



The working illumination value can be adjusted in the range of 10 - 2000LUX. The working illuminance value is approximately 10LUX when it is turned fully counterclockwise and the working illuminance value is approximately 2000LUX when it is turned fully clockwise. This dial must be turned fully clockwise when the walking test or adjusting the detection area during the day.

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 (36) months, Commercial usage (24) 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.

