

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.

SMS751ELV MICROWAVE MOTION SENSOR electrical and installation specification effective 22/2/2022.

Model No.	Input (V DC)	Dim Control Output	Colour	Dimension L x W x H (mm)	Sensor type
SMS751ELV	12 - 24	0-10V Max.30mA sinking current	White	122 x 31 x 29	Microwave

HF System	5.8GHz ±75MHz	Product installation orientation	Enclosed in approved product
Operating ambient min/max (°C)	-20 to 40	Product application	Interior residential or commercial
Operating humidity	10% to 85% RH, NC	Pixie connectivity	No
Storage ambient limit (°C)	-25 to 40	IP rating*	20
Storage humidity	Max. 95%	Power consumption	< 0.5W
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.			

General product application requirements (if applicable) :

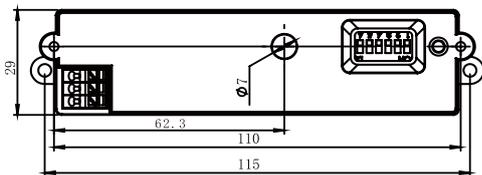
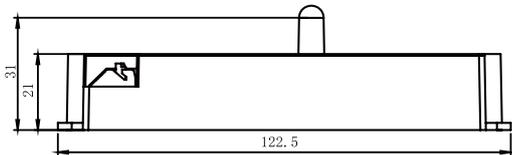
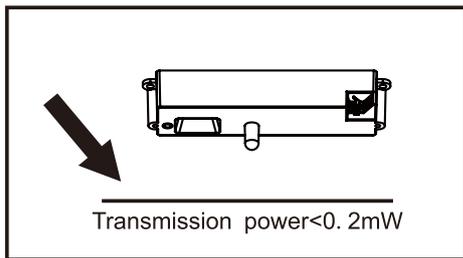
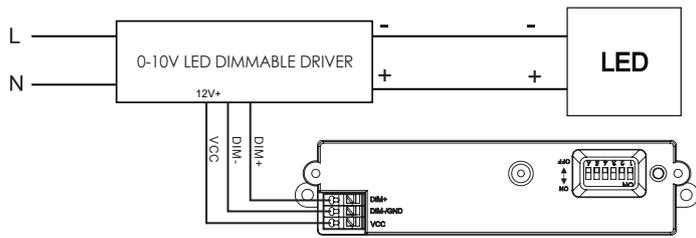
- CCT or POWER selections (where supplied)** – IMPORTANT, where CCT colour temperature or POWER selection switching is provided, it is important to switch OFF the power before the selection is made, otherwise equipment damage may occur.
 - Recycling** – SAL encourages recycling, please consider the environment 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.

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.



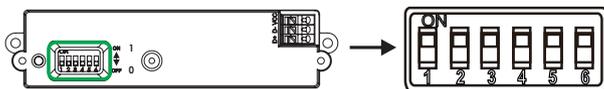
13. Specific installation procedures (if any) - this device must be installed by a licensed electrician:

13.1 SMS751ELV WIRING DIAGRAMS

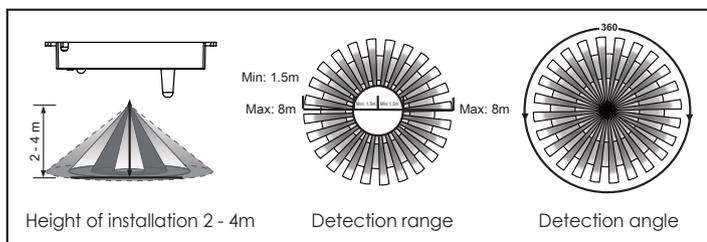


13.2 PARAMETER SETTING BY DIP SWITCH:

Consider the picture: 1 set sensitivity; 2 set the lux (daylight sensor function); 3,4 set hold time; 5 set stand-by light level; 6 set stand-by time;

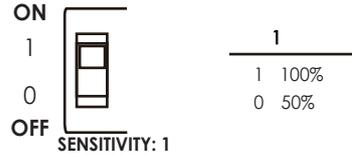


SENSOR COVERAGE



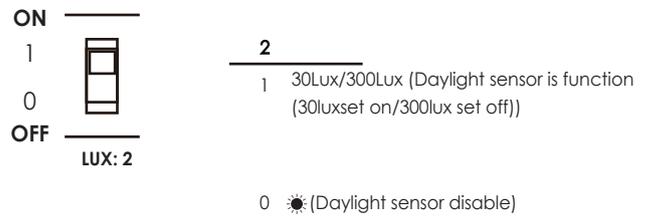
13.2.1 Detection Range Setting (Sensitivity)

Detection range is the term used to describe the radii (circular) detection zone produced on the ground after mounting the sensor light at a height of 2-4m.



13.2.2 Light-control Setting (Lux)

When lux switch is set to 0, daylight sensor is disabled. only the motion sensor and corridor function are active. When the lux switch is set to 1, the daylight sensor is activated.



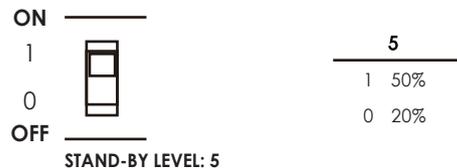
13.2.3 Hold Time Setting:

The light can be set to 100% brightness for any period of time between approx-.10sec and a maximum of 15min. Any movement detected before this time lapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test.



13.2.4 Stand-by Light Level Setting

The setting is used to select the desired dimmed light level used in periods of absence for enhanced comfort and safety.



13.2.5 Stand-by Time Setting

This is the time you would like to keep at the low light level before it's completely switched off in the extended absence of movement



13.3 Motion Sensor and Corridor Function (Daylight sensor disabled)

When the lux switch is set to the 0 position the daylight sensor is disabled. (It is a motion sensor with corridor function).

Settings on demonstration 1:

Hold-time	Setpoint on	Setpoint off	Stand-by Dim	Stand-by Time
1min	/	/	20%	30min or +∞



The sensor switches on the light 100% automatically when presence is detected.



When people leave, there is no motion sensed for 1 min hold time, light dims to 20% stand-by level.



Light switches off automatically after the stand-by period (30min) or stay on 20% stand-by level +∞.

13.4 DAYLIGHT SENSOR PRIORITIZED

When the lux switch is set to 1 position the daylight sensor is activated

Settings on demonstration 2:

Hold-time	Setpoint on	Setpoint off	Stand-by Dim	Stand-by Time
15min	30lux	300lux	20%	+∞



The light automatically turns on at 20% brightness when natural light is <30lux even no any movement detected.



The light will stay on 20% brightness if there is still no movement detected.



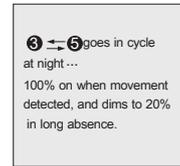
The light switches on at 100% brightness when natural light is <30lux and there is movement detected.



The light dims to stand-by level at 20% brightness after the 15min hold-time.



The light remains in 20% brightness dimming level at night if it can not sense any movement.



When the natural light level exceeds setpoint (>300lux), the light will turn off even if the space is occupied.

Settings on demonstration 3:

Hold-time	Setpoint on	Setpoint off	Stand-by Dim	Stand-by Time
5min	30lux	300lux	50%	30min



The light automatically turns on at 50% when natural light is <30lux even no any movement detected



The light will turn off if it can not sense any movement after 30min.



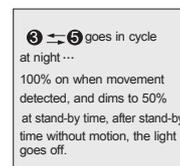
The light switches on at 100% when natural light is <30lux and there is movement detected.



The light dims to stand-by level at 50% brightness after the 5min hold-time.



The light dims to off after 30min stand-by time if no movement is detected



When the natural light level exceeds setpoint (>300lux), the light will turn off even if the space is occupied.

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 (12) months, Commercial usage (12) 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.

