MyLights

Welcome to the Connected Home

Installation Guide

ADVANTAGE AIR®

V1.1

MyLights

MyLights Installation Guide

Contents

1 - ELECTRICAL SAFETY

MyLights must be installed and/or used in accordance with your current local electrical codes & regulations.

If you are unsure about any part of this installation guide contact a licensed electrician before proceeding.

Some steps of the installation process are required to be completed only by a licensed electrician; these steps are marked with this symbol.

MyLights conforms to the following safety standards:

AS/NZS 61347.1:2002
AS/NZS 61347-2-13:2013
AS/NZS 60598.1:2013
AS/NZS 60598.2.2:2016

While MyLights is primarily an Extra Low Voltage (ELV) system installations may have a mix of 240V and ELV wiring and switches.

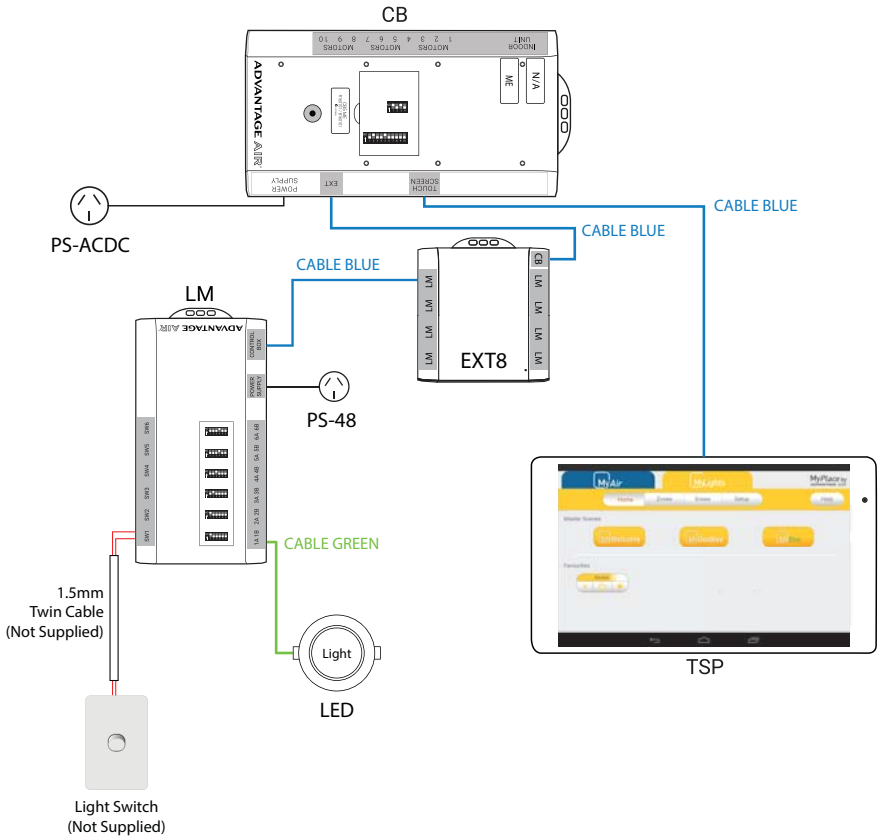
Always ensure the MAIN POWER breaker is OFF before connecting / configuring or modifying MyLights.

The MyLights system runs at extra low voltages (ELV). Mega (aka megger) tests do not apply.

The MyLights PS-48s and the CB PSU-ACDC MUST be physically unplugged from their GPOs before Mega testing an electrical install.

Please also note that all MyLights wall switches that connect to the LM are not part of the 240V electrical install. These are ELV, and MUST not be subject to any Mega testing.

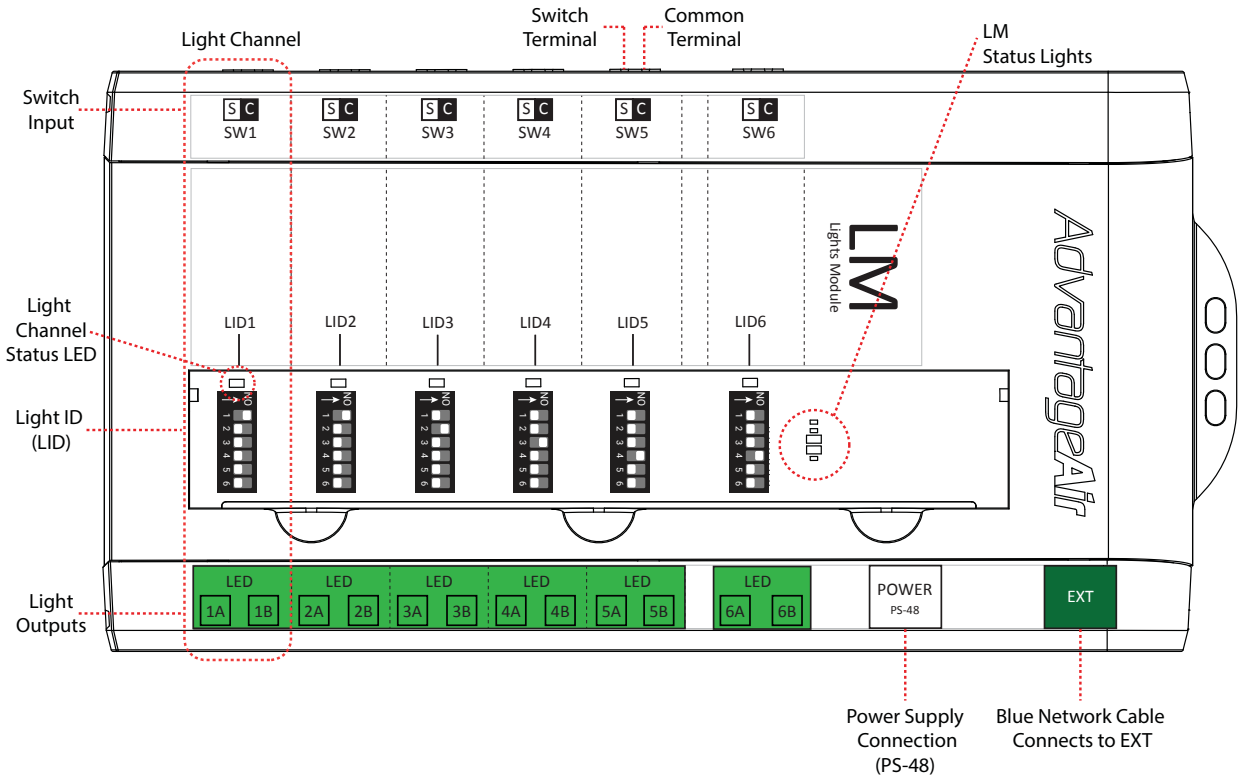
2 - SYSTEM OVERVIEW



PART NO.	OPTIONS	DESCRIPTION
CB	CBZL / CB7	Control Box
EXT	-	Extender
LM	-	Lights Module
PS-48	-	48V Power Supply
PSU-ACDC	-	ACDC Power Supply
TSP	-	Touch Screen Panel
LED-R66 LED-F54 COB-G65	Size: 92, 76 or 70mm Frame Colour: White or Brushed Steel	LED Downlights: recessed, flush and pivoting gimbal styles available. See Section 6 for more details.
CABLE BLUE	0.5m / 6m / 12m / 25m	CAN Cable
CABLE GREEN	6m / 10m / 20m / 40m	LED Cable
RELAY 48VK	-	Relay (240V, 10amp, 48V Coil)

Only use approved components as listed here. Any unauthorised changes to system components may pose a safety risk, make the product non-compliant with safety standards and any failure may not be covered by manufacturer's warranty.

3 - LM OVERVIEW



Each LM has 6 x Light Channels.

Each light channel consists of:

- 1 x Light Switch (SW) terminal;
- 1 x Set of Light ID (LID) dip switches;
- 2 x Light outputs (LED 1A & 1B); and
- 1 x Light Channel Status LED.

Example:
One Light Channel would typically have two lights connected, one to each of the Light Outputs (LED 1A & 1B.) The Light Switch terminal would be wired to a wall mounted light switch that would be used to turn these two lights ON or OFF at the same time.

The two lights could also be dimmed or turned ON or OFF from the wall mounted touchscreen or via the users Android or iOS device.

More complex configurations can be achieved by using the LID dip switches, this is explained in the following section.

4 - LIGHT ID (LID) CONFIG.

Each Light Channel has a set of LID dip switches.

LID dip switches serve two primary functions:

1. LID's allow you to link Light Channels together. To link two or more Light Channels together set the LID dip switches to the same number.

   This can be used to link multiple lights together in one room, and/or to provide more light switches.

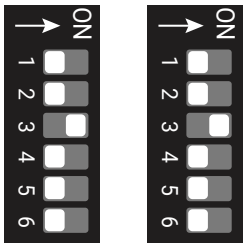
2. LID's also allow you to select the Light Channel mode, there are three modes available:

   LED MODE (dimmable)
   To configure LED mode set ONE dip switch to the ON position.

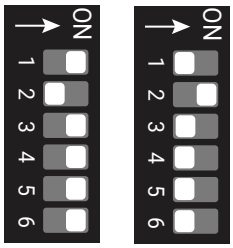
   RELAY MODE (non dimmable)
   To configure RELAY mode set all dip switches to the ON position except the one you would like to set.

   OFF MODE (LID not used)
   All switches set to OFF.
   This is the default mode from the factory.
   This mode is used when a channel is spare

The following examples show the different ways to link LID dip switches.



Two Light Channels linked together with LID #3 (LED MODE)



Two Light Channels linked on LID #2 with one channel in RELAY MODE

5 - LED SPECIFICATIONS

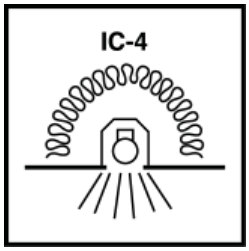
PART NO.	DESCRIPTION	CUTOUT SIZE	IP	BEAM / GIMBAL ANGLE	TRIM OPTIONS	COLOUR
LED-R66-92	Recessed, colour change LED downlight (10W)	92mm	IP66	90°	White (W) or Brushed Steel (S)	Warm White, Natural White, Cool White.*
LED-R66-70	Recessed, colour change LED downlight (10W)	70mm	IP66	90°		
LED-F54-92	Flush, colour change LED downlight (10W)	92mm	IP54	90°		
LED-F54-70	Flush, colour change LED downlight (10W)	70mm	IP54	90°		Warm White (WW), Natural White (NW), Cool White (CW).**
COB-G65-76	Gimbal LED downlight (10W)	76mm	IP65	90° / ±30°		
COB-G65-70	Gimbal LED downlight (5W)	70mm	IP65	90° / ±30°		

* Colour switchable models, each light can be switched between the three colours.

** Each light has a fixed colour, add suffix to part number to order the correct colour.

ie. COB-G65-76-S-**WW** for **Warm White**.

Note: All lights have IC-4 rating and a 5 year warranty.



6 - RELAY MODULE (RM)

The Relay Module or RM, is a module designed to switch 240V lights using relays. Up to 6 relays can be connected to an RM. An RM will only function in relay mode and does not support dimming.

Configuring an RM is the same as configuring an LM, except that **all** LID dipswitches must be configured to be in **relay mode**.

RELAY MODE (non dimmable)
To configure RELAY mode set all dip switches to the ON position except the one you would like to set. Only one dipswitch can be in the OFF position.

Tips:
- If the LID's on an RM are NOT configured to be in relay mode the channel output will blink ON and OFF.
- For help on relay wiring see section 9.

Any 240V wiring or installation must be carried out by a licensed electrician.

7 - RELAYS

MyLights allows you to configure an output to switch a relay.
This relay can be used to switch a device ON or OFF.

The relay kit (RELAY 48VK) sold separately, consists of the following components:

- 1x Relay (240V AC / 10Amp / 48V Coil);
- 1x DIN rail mount socket; and
- 1x ADAP RELAY cable.

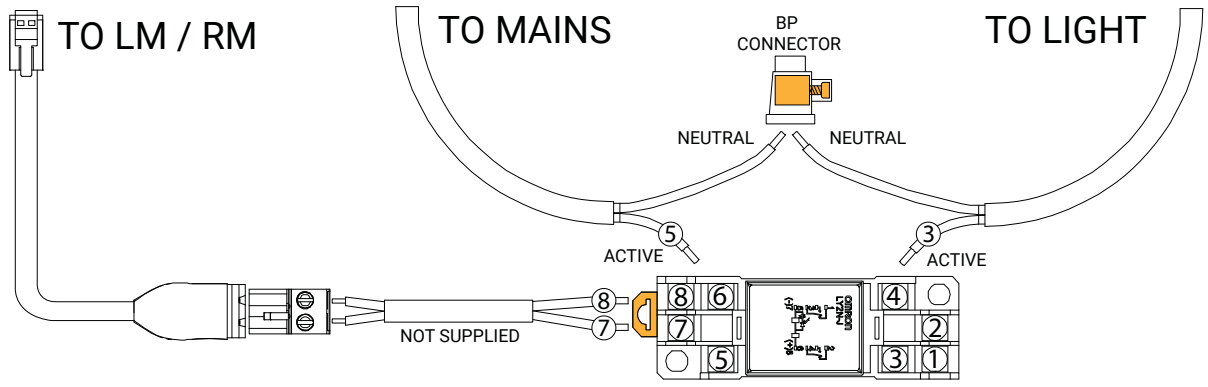
The ADAP RELAY cable, connects from a Light Channel output on the LM (or RM) to a terminal block. The terminal block is used to run twin 1.5mm electrical cable to the relay.

The relay must be wired and housed in accordance with the applicable regulations / standards.

Ensure the Light Channel's LID is configured in relay mode. Once in relay mode the Light Channel will now be displayed in the MyPlace app as an ON/OFF button.

Devices connected to a relay will not have dimming functionality.

The below illustration shows the typical relay wiring.



See section 12 for wiring guidelines.

8 - MODULE FEATURES (LM / RM)

FEATURES	SPECIFICATION
No. of Modules (LM or RM) per system	Up to 12
No. of lights per system	Up to 144 x LED downlights or 72 x Relay's
No. of Light Channels per Module	6
Light outputs per Module	**LM**: 12 x LED downlights or 6 x Relay's **RM**: 6 x Relay's
Light switches per Module	Up to 6. 1 Light switch per Light Channel
Lights per light switch	**LM**: 12 x LED down lights or 6 x Relays **RM**: 6 x Relay's
Max lights per Light Channel	**LM**: 2 x LED down lights or 1 x Relay **RM**: 1 x Relay
Max light switch cable length	100m
LED dimming capability	**LM**: 10 brightness levels **RM**: Not dimmable
Power requirements	Surge protected power circuit with one power outlet for each LM, RM & CB. LM / RM: 220-240V 1.7Amps max. CB: 220-240V 0.2Amps max.

9 - PLANNING

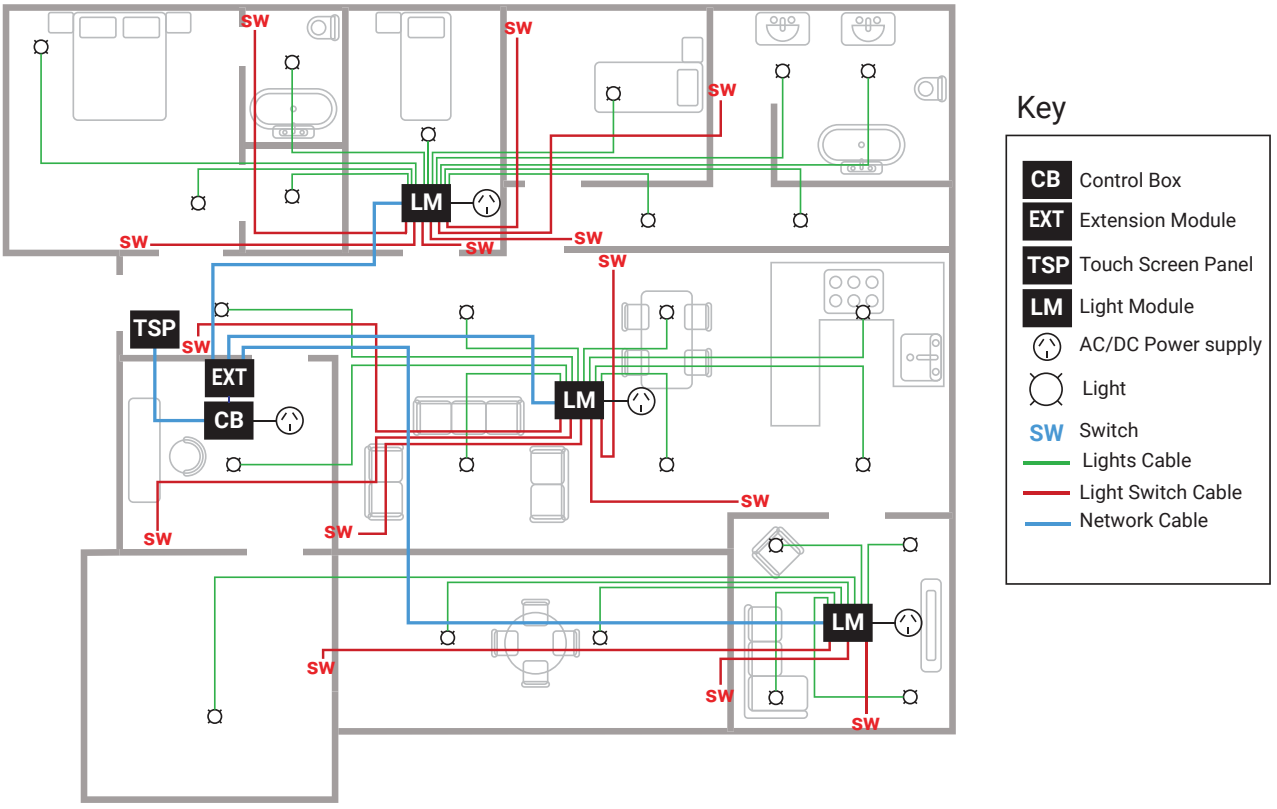
Before any work begins it is good practice to work from a plan so that you have a good understanding of the installation going forward.

When developing your plan you should consider the below points:

- Location of CB & EXT, normally located centrally in the ceiling space (or near air-con unit if MyAir is installed.)
- Location of LM's in relation to their respective light groups, your LM would normally be located in the center of the groups which connect to it.
- Length of cable required from LM to each downlight, cables are available in 6, 12, 20, 30 & 40m lengths.
- Location of power points required for CB & LM's.
- Locations of light switches for each LIGHT ID. Note if your LIGHT ID has multiple Light Channels you can have multiple switches for that group.

IMPORTANT: Due to heat transfer in summer, electronic components (CB's, LM's) should be installed over 1m away from roofing materials, such as roof tiles.

Below is an example of a plan:



10 - WIRING LOOKUP TABLE

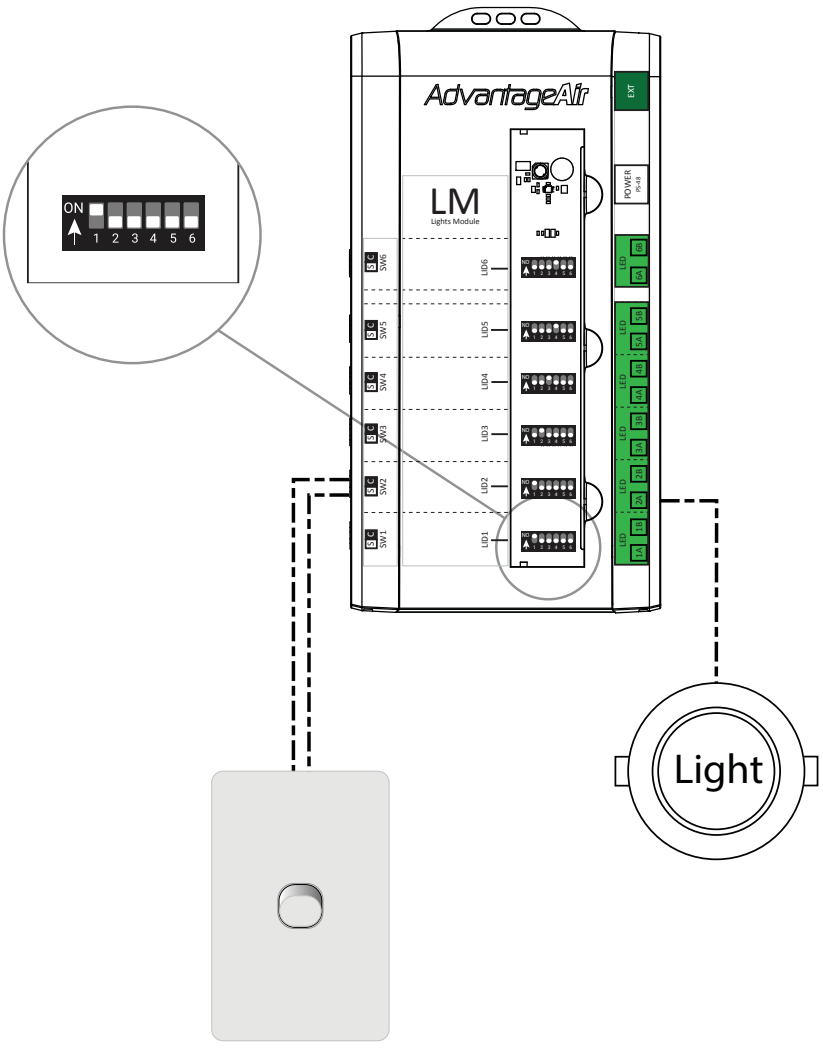
The following table lists the device types supported by MyLights.

DEVICE	WIRING DIAGRAM	LIGHT DIMMABLE
MyLights light	**SW1**	**YES**
Light (240V)	SW2	NO
Flood light	SW2	NO
Security light	SW2	NO
Exhaust fan (standalone)	SW2	NO
Kitchen range hood	SW2	-
Pendant light	SW2	NO
Exhaust fan & light (separate switches)	SW3	YES
Exhaust fan & light (same switch)	SW4	NO
Exhaust fan & dimmable light	SW5	YES
2 switches 1 light	SW7	YES
Switches with shared common	SW8	-
LED strip lighting	SW9	NO
Chandelier	SW10	NO
Many lights (switched by many switches)	SW11	YES

11 - WIRING: SW1

SW1 Switch wiring to single MyLights downlight

Example:
Standard Mylights downlight wiring.
Light is dimmable via MyLights



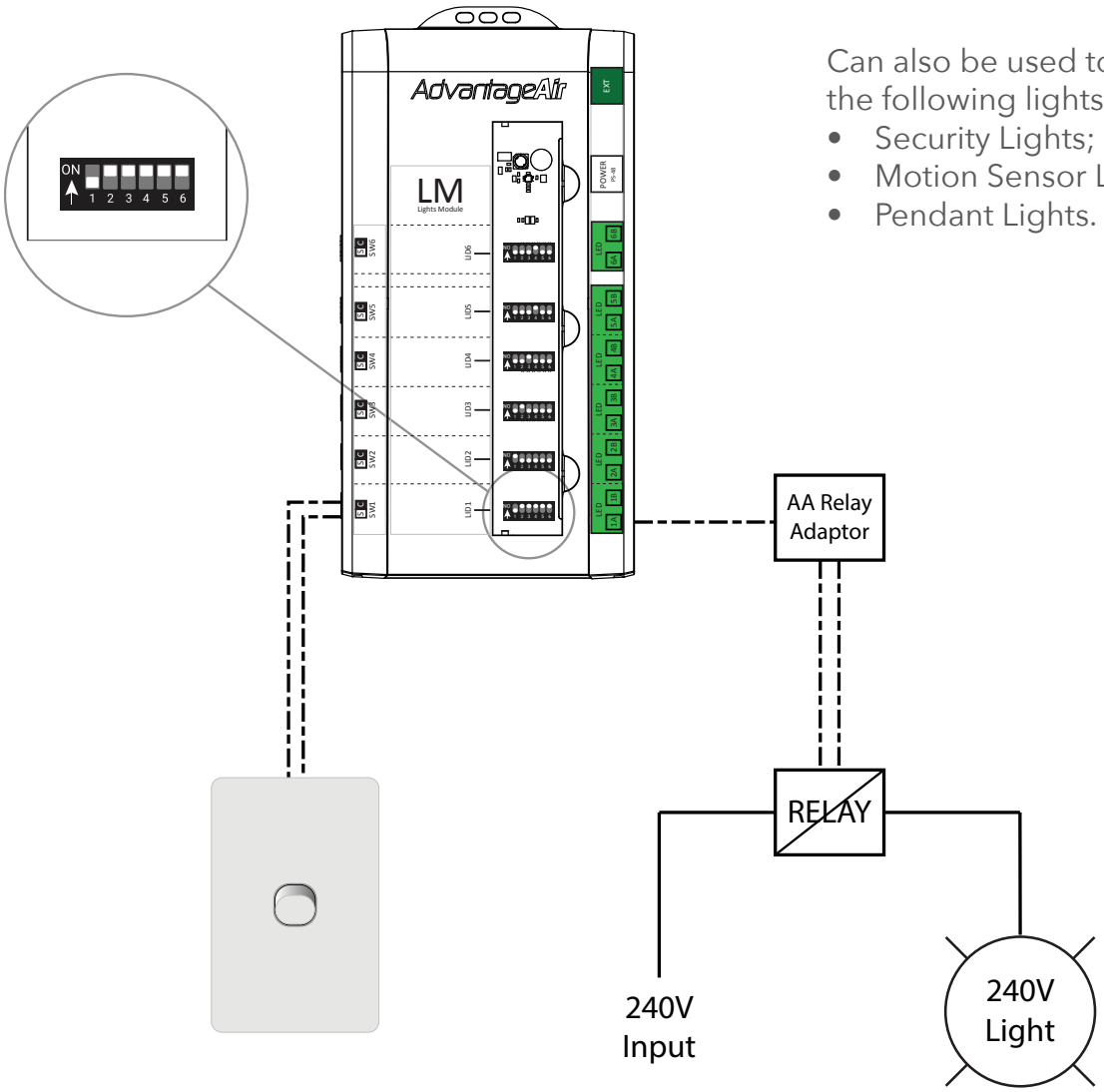
---- Extra Low Voltage

Examples continue on next page.

WIRING: SW2

SW2 Switch wiring to single 240V Light

Example:
240V Kitchen bench pendant light
Light is NOT dimmable



Can also be used to wire the following lights:

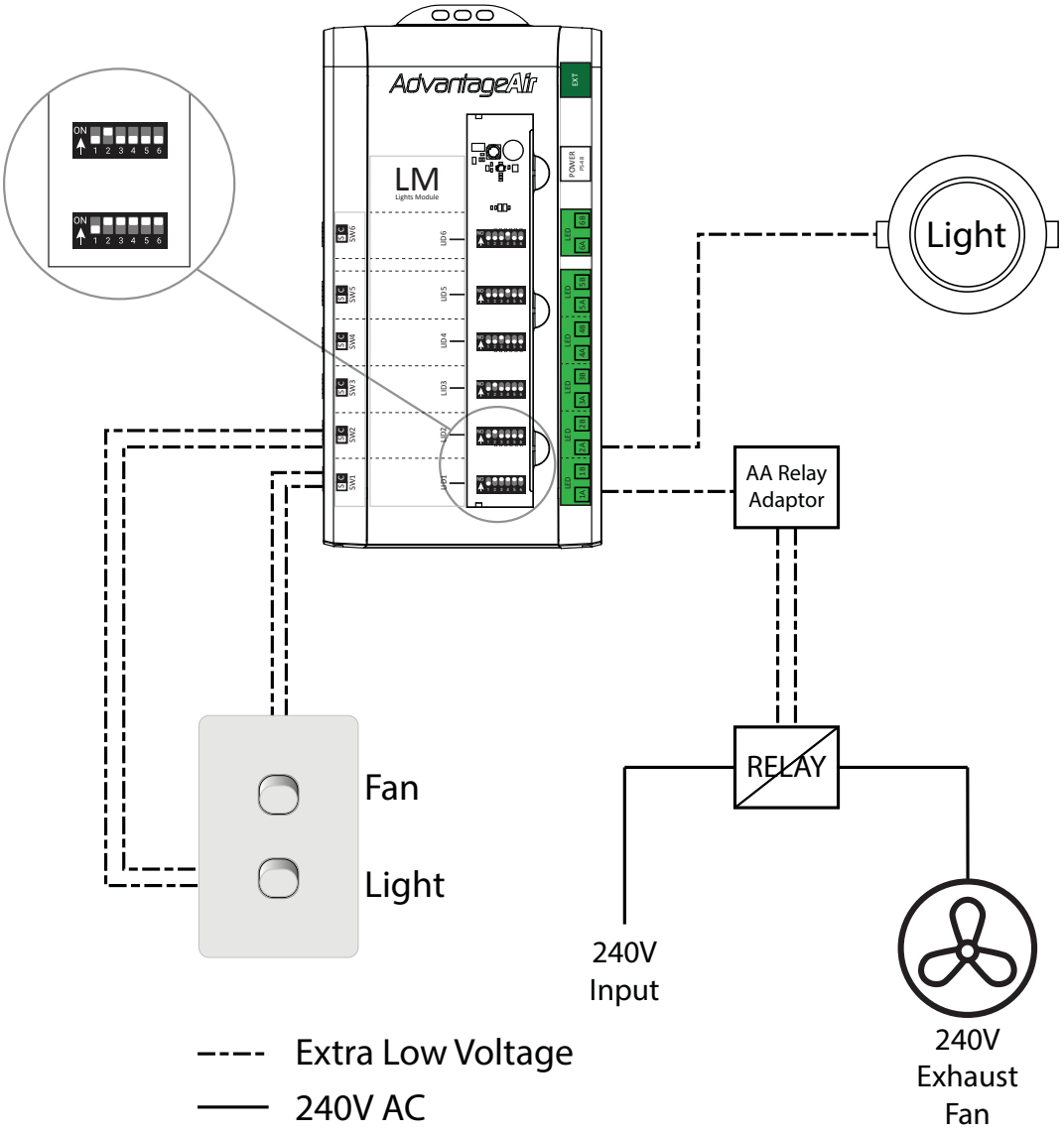
- Security Lights;
- Motion Sensor Lights; and
- Pendant Lights.

Examples continue on next page.

WIRING: SW3

SW3 Twin switch wiring to a MyLights downlight and a 240V Fan

Example:
Kitchen exhaust fan and downlight combo
Light is dimmable via MyLights.

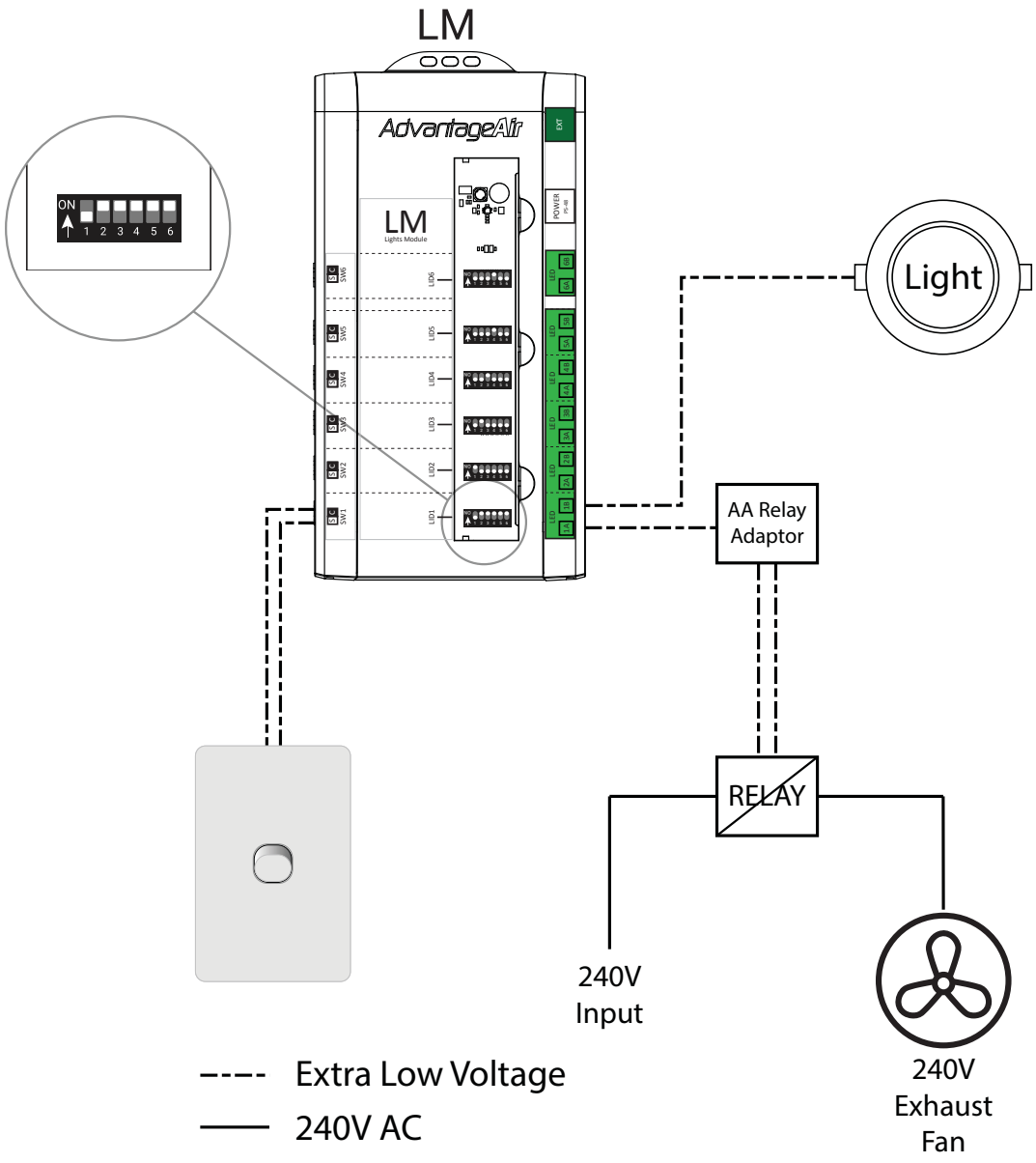


Examples continue on next page.

WIRING: SW4

SW4 Single switch wiring to a Mylights downlight and a 240V Fan

Example:
Toilet or Bathroom
Light is NOT dimmable.

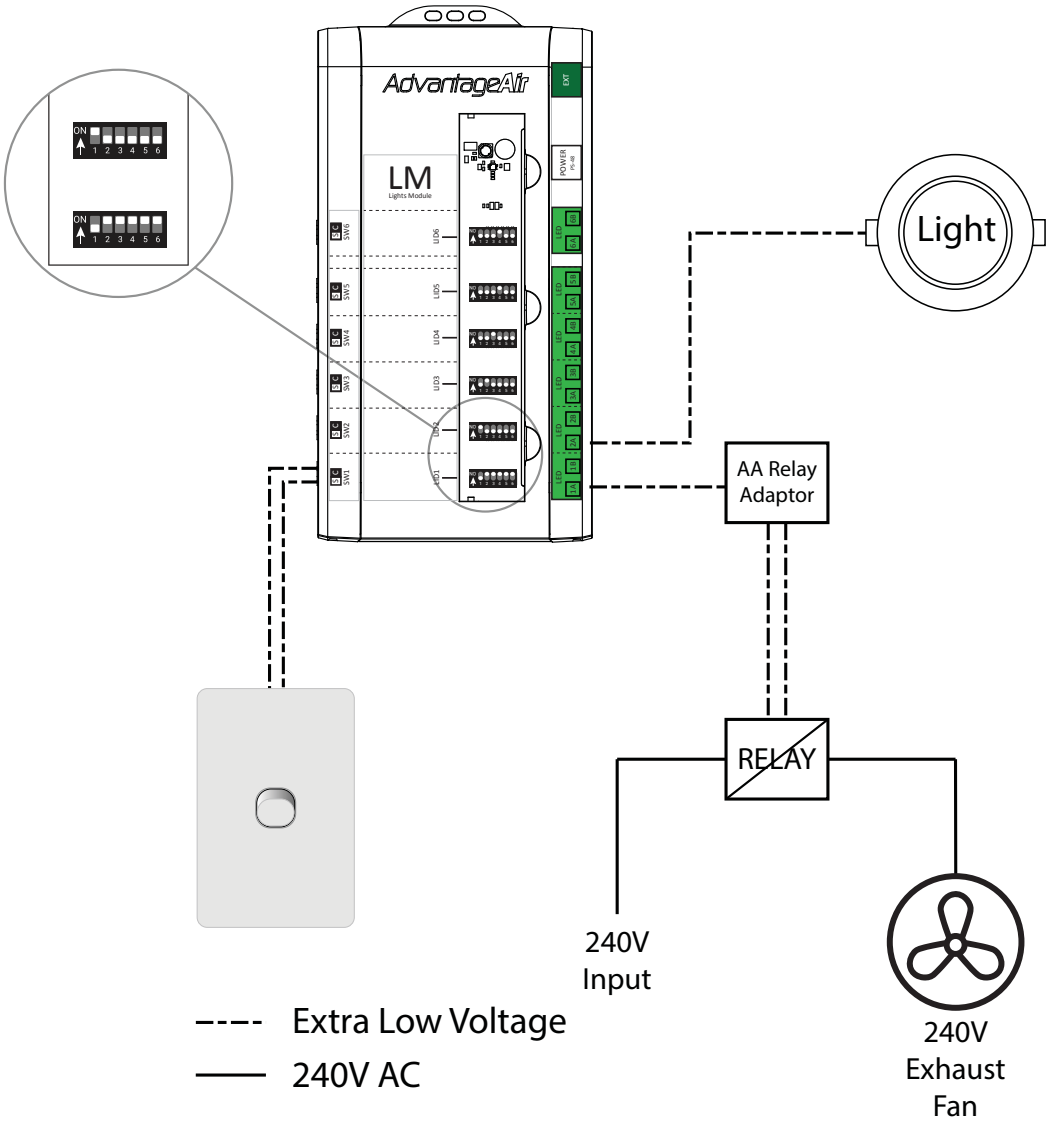


Examples continue on next page.

WIRING: SW5

SW5 Single switch wiring to a Mylights light and a 240V Fan

Example:
Toilet or Bathroom
Light is dimmable via MyLights.

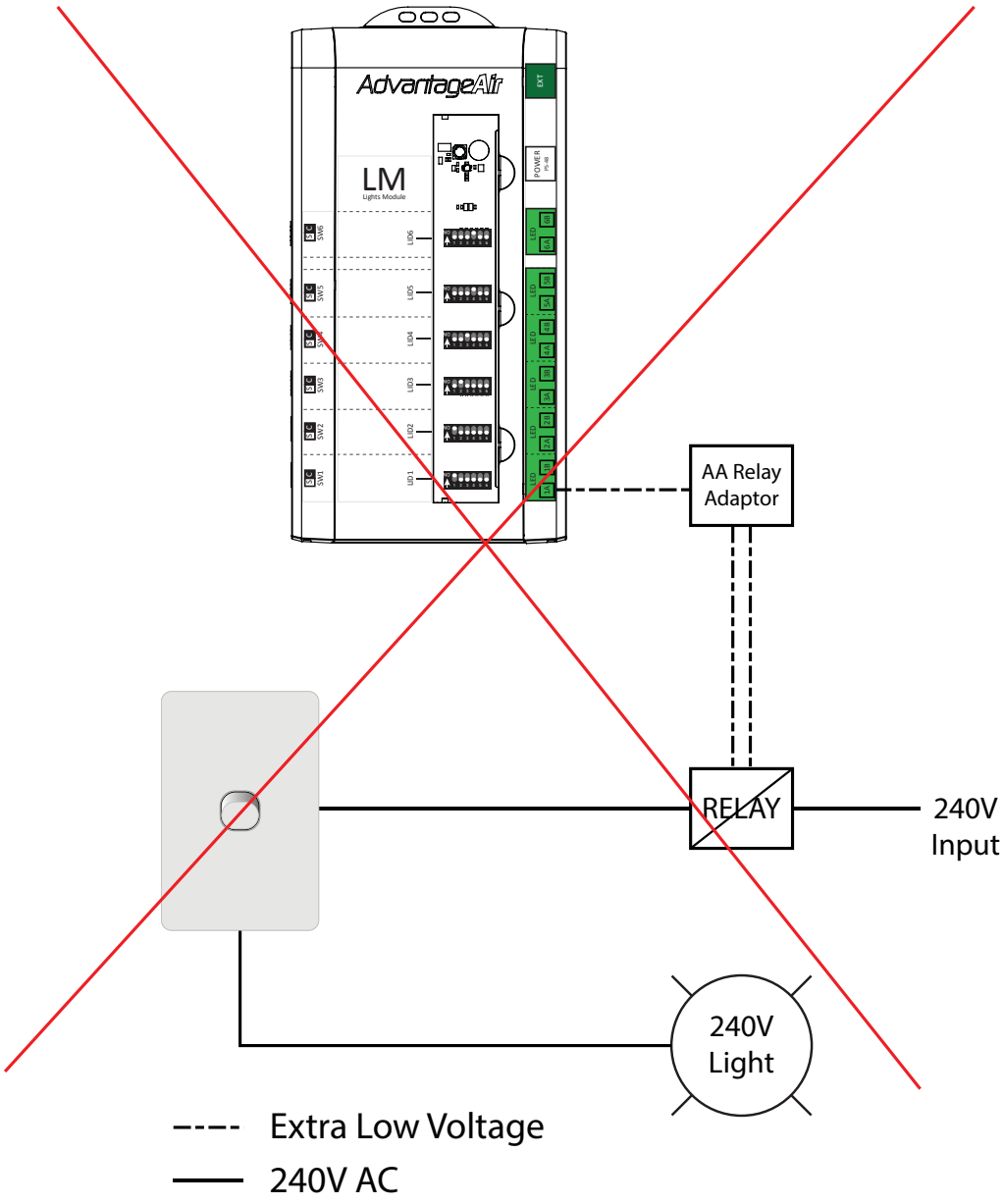


Examples continue on next page.

WIRING: SW6

SW6 Do NOT wire a switch down stream of a relay, as shown below

This will override control of the light.
ie. if the switch is OFF MyLights cannot turn the light back ON

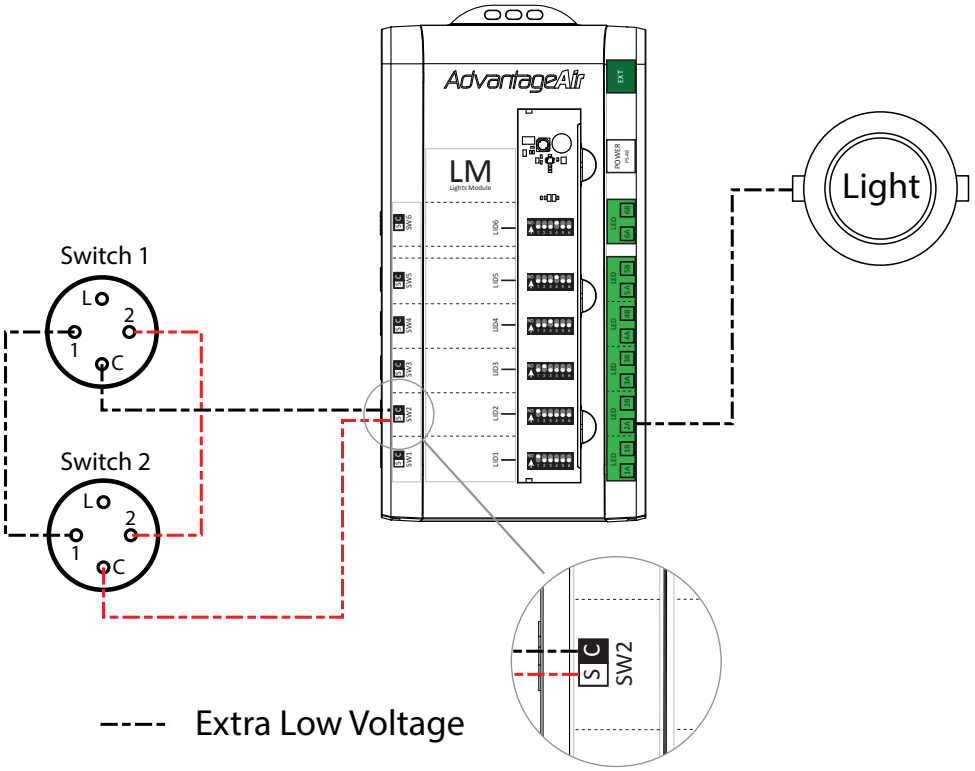


Examples continue on next page.

WIRING: SW7

SW7 Two switches controlling the same light.

Example:
A room with 2 entry points with a switch at each entrance.
Light is dimmable via MyLights.



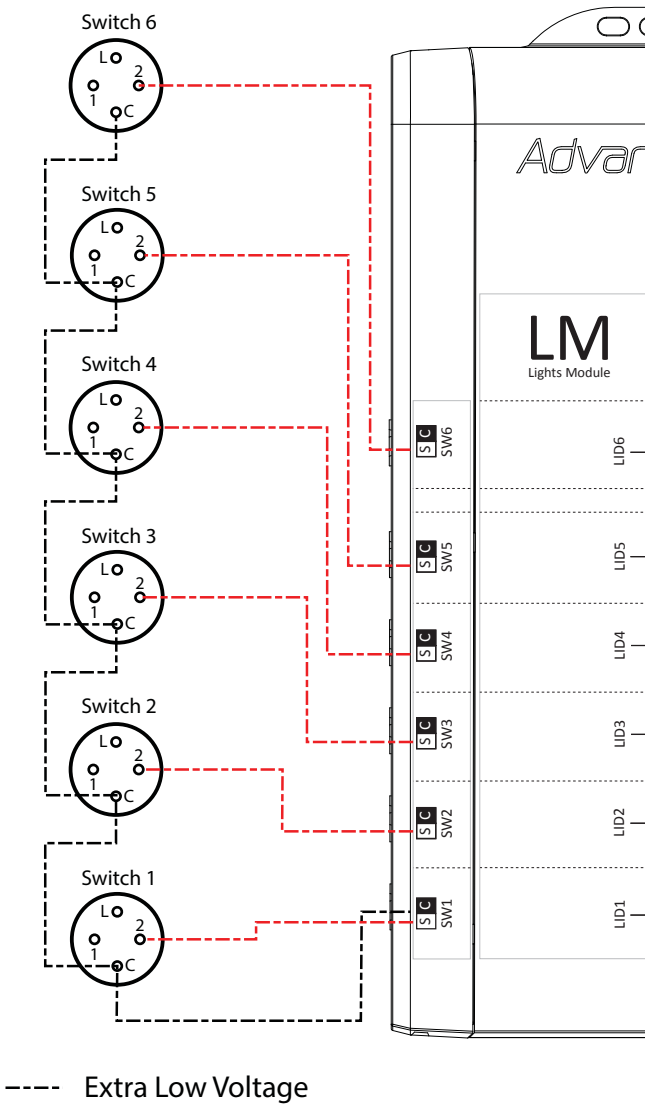
Examples continue on next page.

WIRING: SW8

SW8 6 separate switches with a shared common.

Reduces wiring in cases where multiple switches are used in the same location.

Example:
6 way switch plate controlling banks of lights

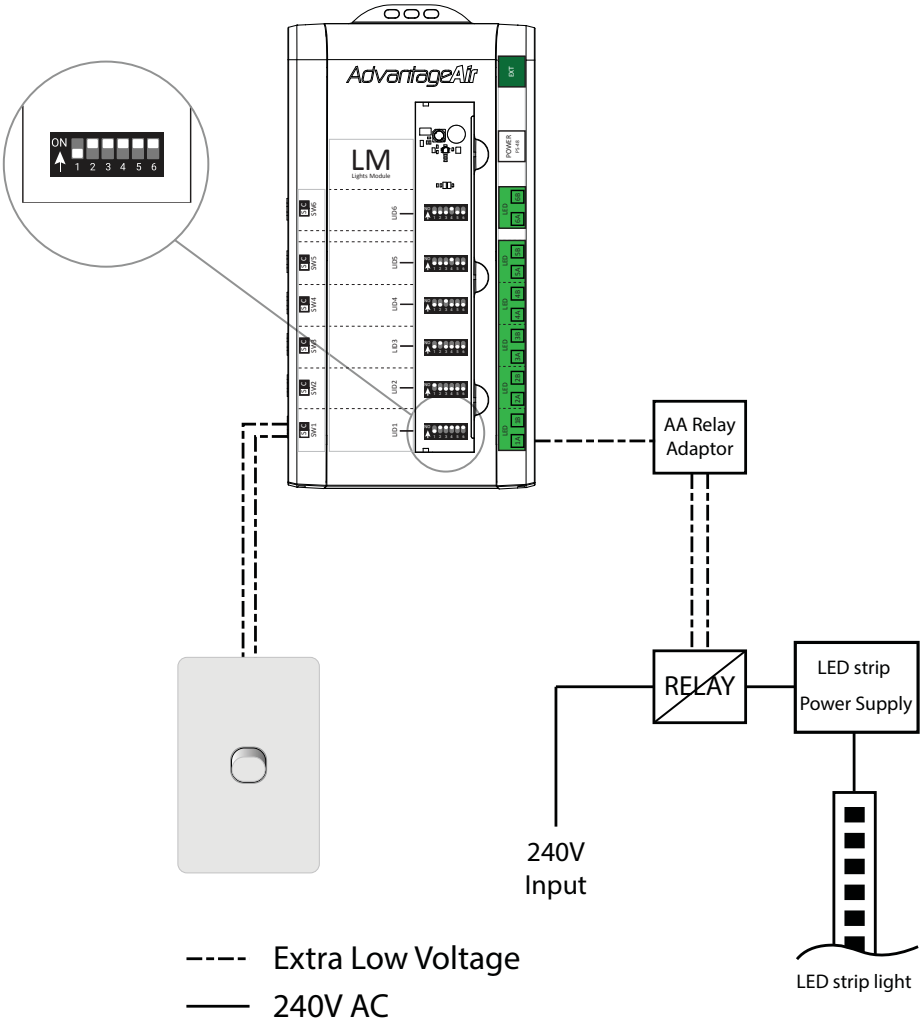


Examples continue on next page.

WIRING: SW9

SW9 LED Strip lights.

Example:
Installing LED strip lighting in a hallway or along a cornice.

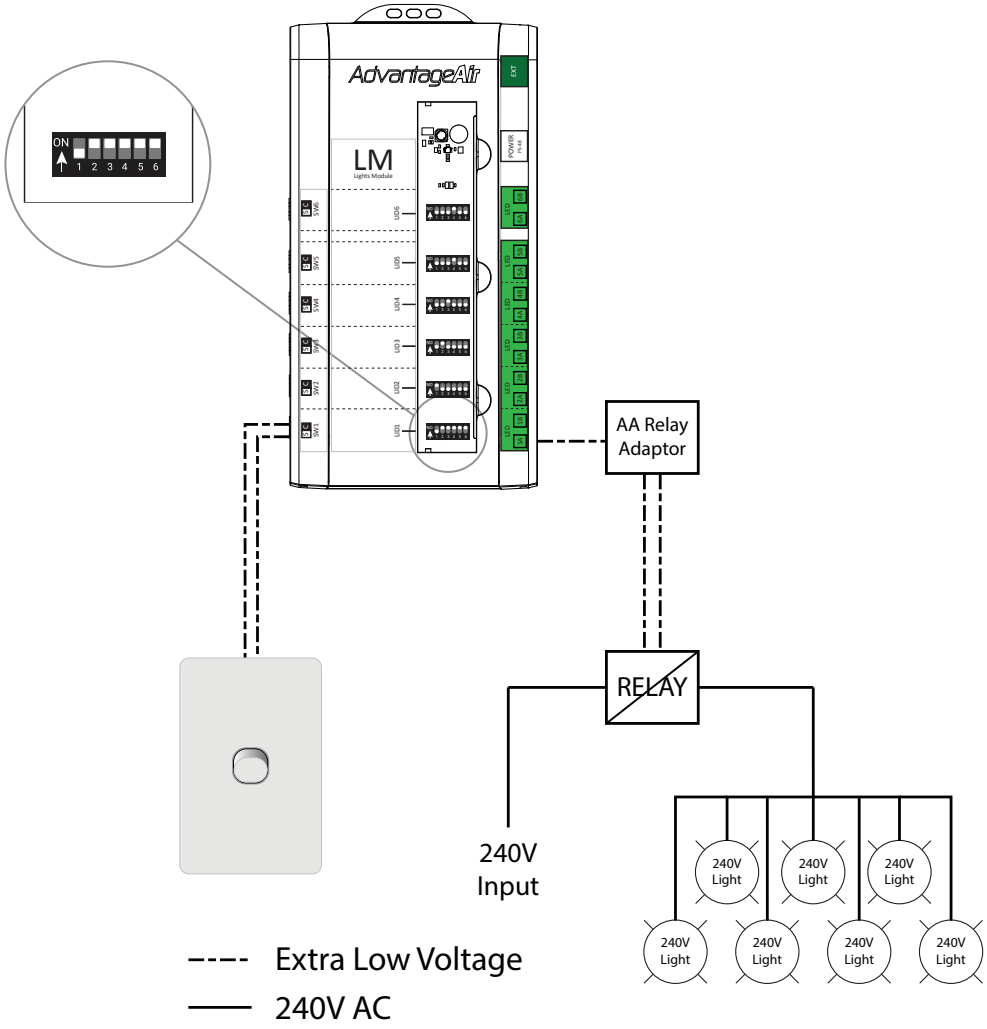


Examples continue on next page.

WIRING: SW10

SW10 Single switch controlling multiple lights

Example:
Chandelier or designer light fitting.



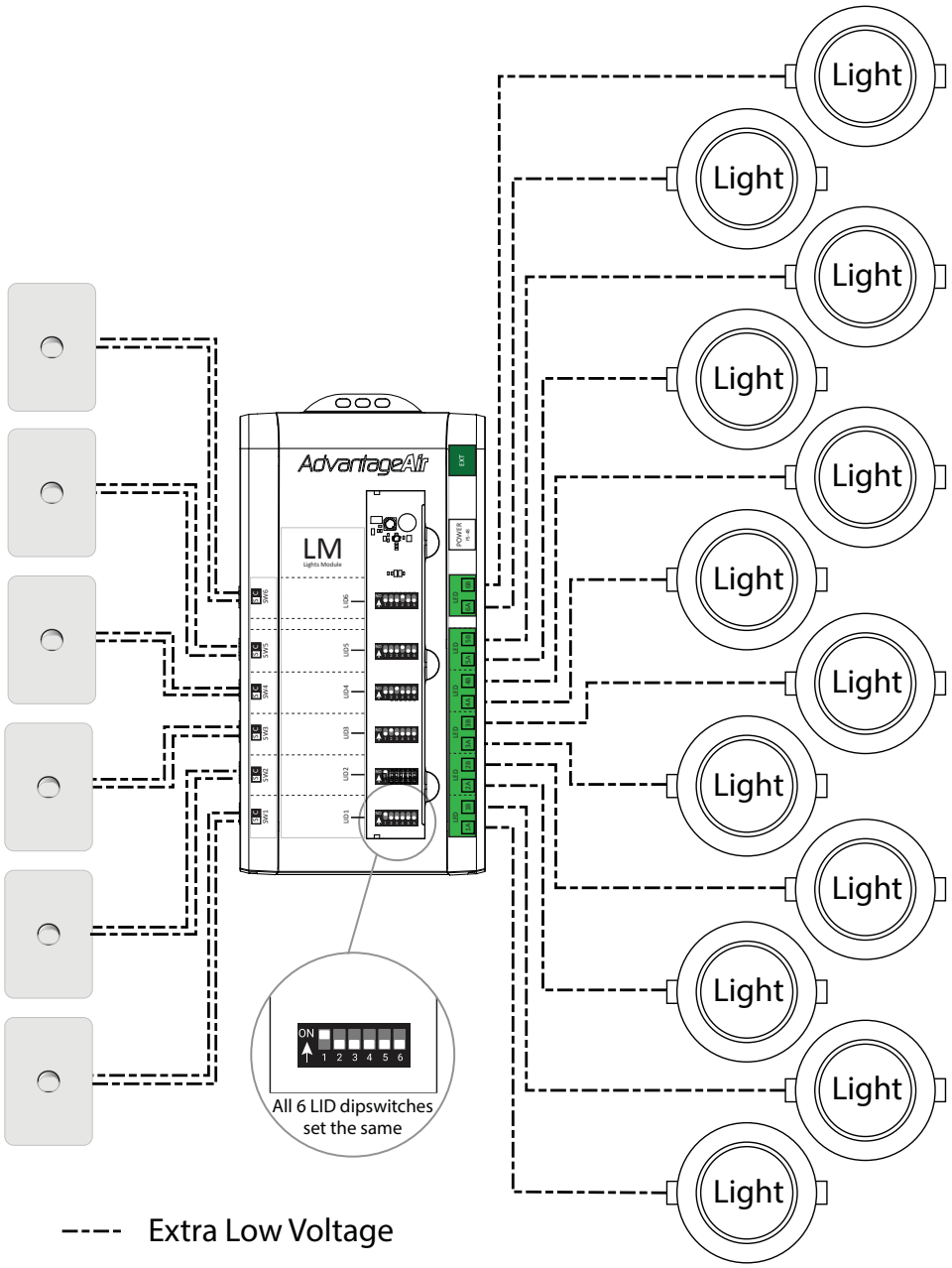
Examples continue on next page.

WIRING: SW11

SW11 Many switches controlling many lights

Example:
Large Room with many entry points

All 6 switches will control all 12 lights, all the lights are dimmable.



12 - POWER POINTS

Installation of power circuits & power points must be completed by a licensed electrician.

Install a surge protected power circuit ensuring you have one power point for each LM and each CB.

13 - CUT OUTS

The cut out size is listed on the box of each light. This number is the hole size required for that particular model. Different models have different cut out sizes.

1. Identify the required cut out size on the box.
2. Using your plans mark out the location of each light.
3. Ensure there are no obstructions on the roof side of the plasterboard
   Eg. Ensure there are no pipes or cables in the roof space above where you plan to cut out your down light hole.
4. Cut the hole for each downlight.

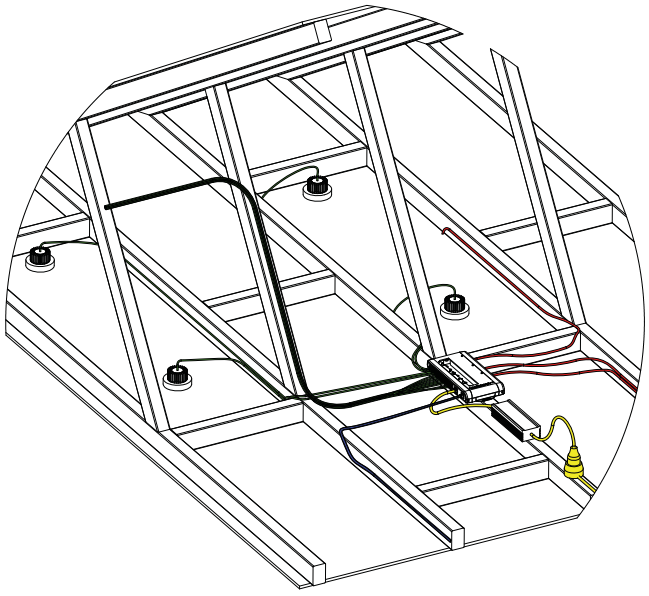
14 - CABLING

The cabling installation procedure is as follows:

1. Label your LM's to match your plan.
2. Place LM's in the locations shown on your plan. DO NOT plug LM into power supply at this stage.

IMPORTANT: Leave at least 1m clearance from the LM & the roof material.

3. Label your light switch wires at the end that will be plugged into the LM.
4. Run light switch wiring from light switch location to the respective LM.
5. Install a green connector on the end of your light switch wire, then plug this into the respective LM.
6. Connect & install light switches.
7. Label the supplied green light cables at the end that will plug into the LM e.g. Living1, Living2.
8. Plug in & run supplied green light cables from LM to the location of each light cut out ensuring that the labeled end remains plugged into the LM. It is recommended to leave the cable extending through the hole by 300mm for easy installation of lights at a later stage.
9. It is good practice to secure the green lights cable runs along the side of the rafters using cable clips, this will help prevent people from standing on cables which may cause damage.



15 - INSTALLATION

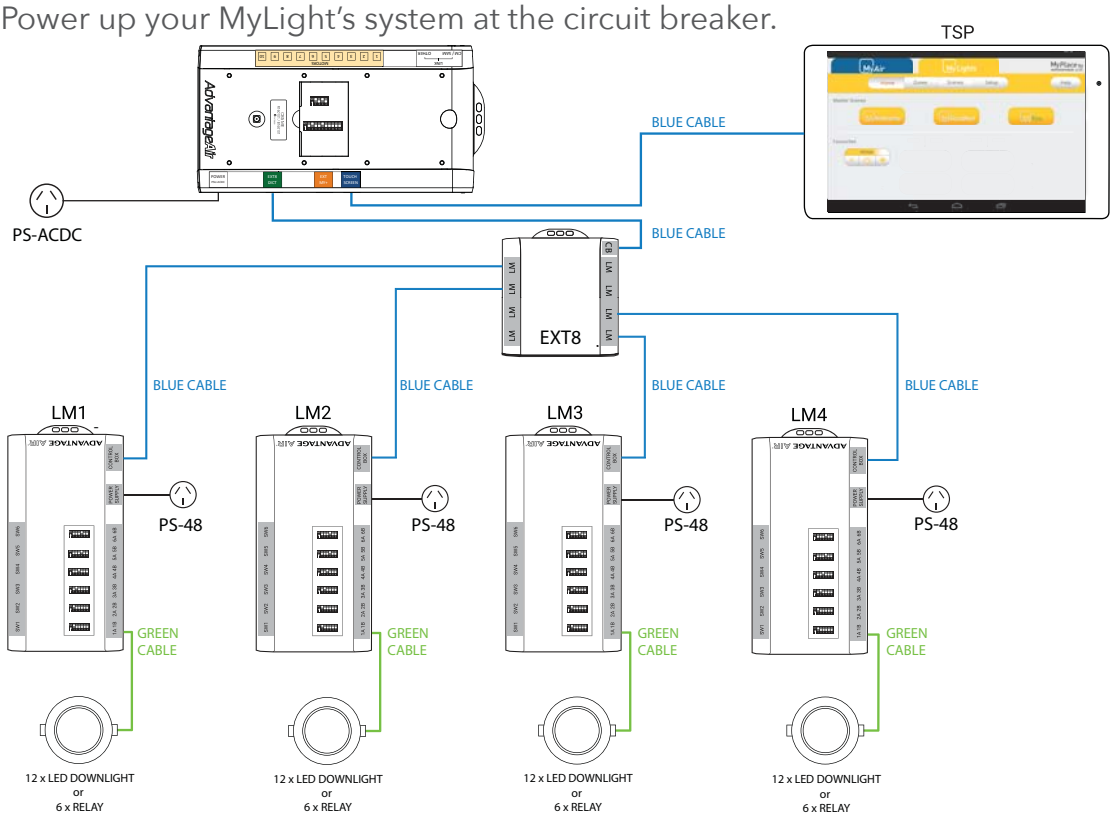
1. Turn off the circuit breaker
2. Place CB & EXT in the location shown on your plan.

IMPORTANT: At least 1m clearance from the CB & the roof material.

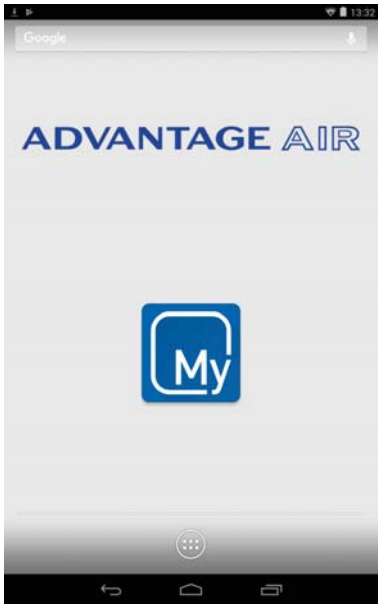
3. Run a blue cable from the port labeled TOUCH SCREEN on the CB to the location you wish to install the TSP.

IMPORTANT: Keep control cables, such as the TSP cable, away from other 240V cables or devices.

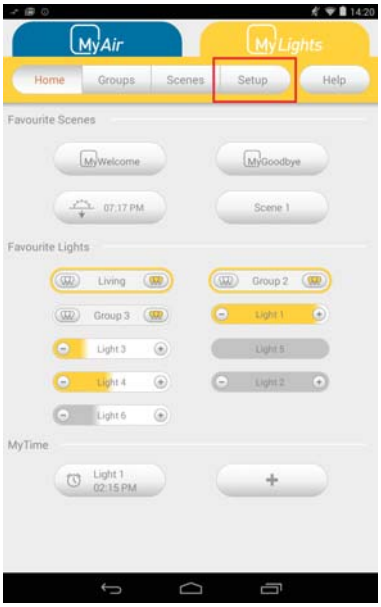
4. On the CB connect a blue cable from the port labeled EXT & plug this into the port labeled CB on the EXT.
5. Run a blue cable from the port labeled EXT on each LM & plug into any port on the EXT, repeat this step for all LM's.
6. Plug the power supply labeled PSU-ACDC into the CB & then connect the lead to the surge protected power point.
7. Plug a power supply labeled PS-48 into each LM & then connect the lead of each power supply to a surge protected power point.
8. Attach TSP mounting bracket to the wall, connect network cable & fit your TSP to the wall.
9. Power up your MyLight's system at the circuit breaker.



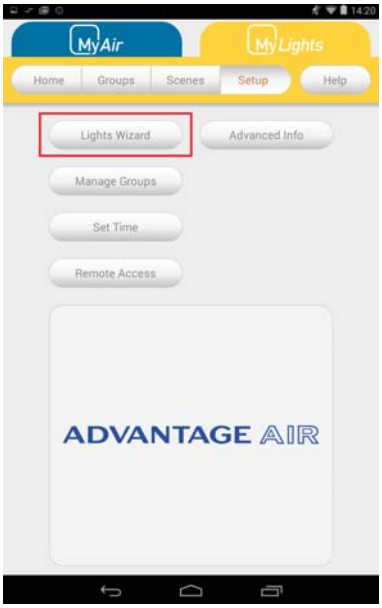
16 - SETUP WIZARD



1. Press the My app located on the home screen of your MyLights tablet.



2. Press the SETUP button.



3. Press the LIGHTS WIZARD button.

4. Flick the wall switch of the light you would like to name.

5. Name the light switch & select the group you would like it in then press save.

6. Proceed with naming & grouping all other lights.

MyLights

ADVANTAGE AIR®

The advantage of Australian-made

MyLights is designed by Advantage Air, an Australian company based in Perth, Western Australia. Since 1990, we've been dedicated to making peoples' lives more comfortable.

We started with designing and manufacturing innovative ducted air-conditioning systems. The connected smart home, like smart lighting, is the natural evolution of helping you create an environment where everything is exactly the way you like it.

We take pride in creating and exporting a local product that is world class. To achieve this, we embrace technology and invest heavily in research and development. Our ingenious engineers have developed numerous industry firsts and earned us a slew of patents, registered designs and design awards in the process.

We are committed to quality and where possible, make our components in Australia. Like MyAir, your MyLights system is built to last. The only thing that shines brighter than our lights? Our service.

5-Year Warranty

Advantage Air components are well known in the industry for their quality and durability. To prove our confidence, we provide a 5-year warranty on all electronic controls.

Corporate responsibility

Advantage Air is all about bringing comfort to people. We are proud to be a sponsor of Channel 9's Matt & Kim to the rescue. The show delivers life-changing renovations to families in desperate need.

ADVANTAGE AIR®

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