# Electrical Solutions Guide

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Your complete guide to electrical and energy management in the home





by Schneider Electric

Your home is something special. Like you and your family, it's one of a kind.

## Bring your home to life

PDL by Schneider Electric products and solutions are designed to suit every lifestyle. Bringing life to your home, we make living easier, safer and more comfortable for you and your family.

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> Switch & socket selection



 Innovations to simplify your life









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 Simple products to save energy





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- Smart home control systems











## 28 Planning for your home

- > Tools to make it happen
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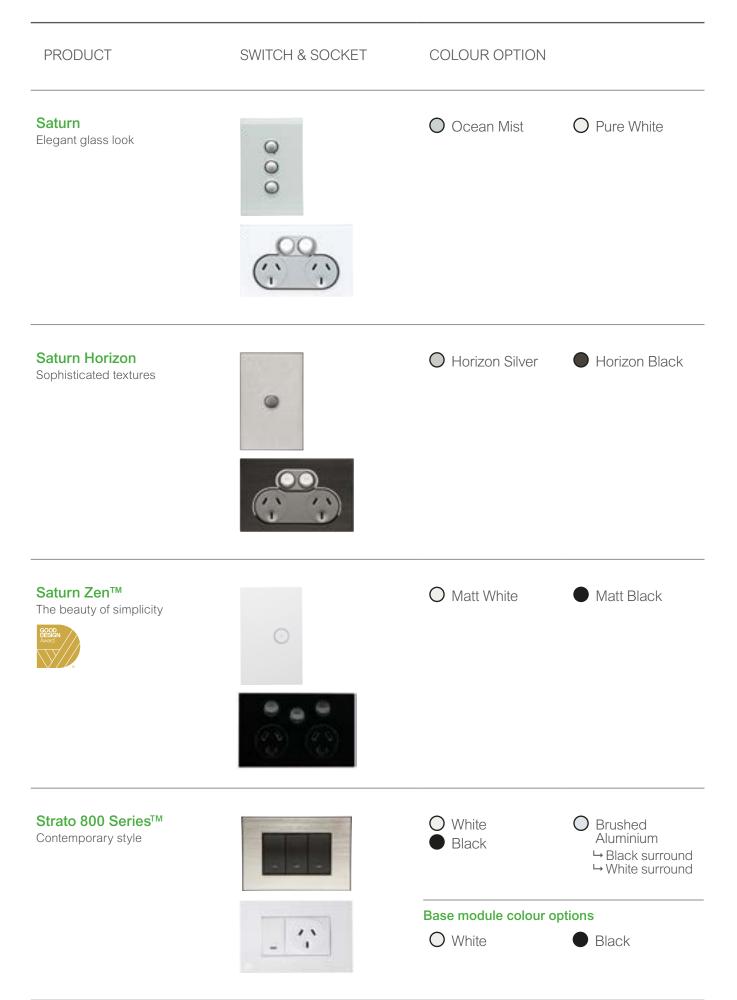
## 02 Match your style

We offer styles and finishes so you can accessorise with your home's decor

There are now so many more switch colours and styles to select from.

The choice is yours.



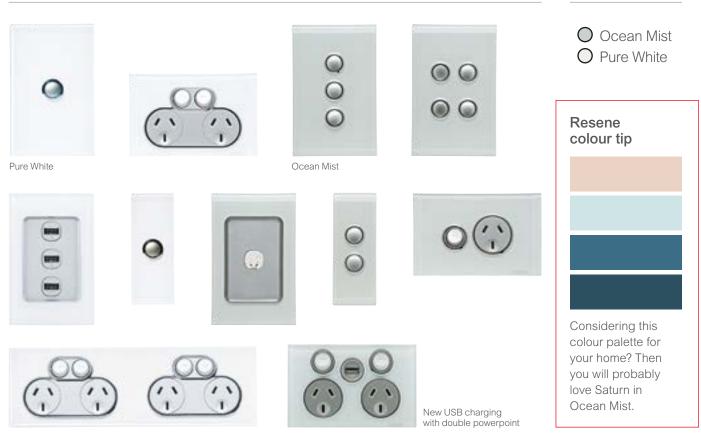






#### **Saturn** Elegant glass look

#### **Colour options**





#### Saturn Horizon Sophisticated textures





Horizon Silver







Horizon Black





Quad power outlet



New double powerpoint with USB outlet



#### **Colour options**

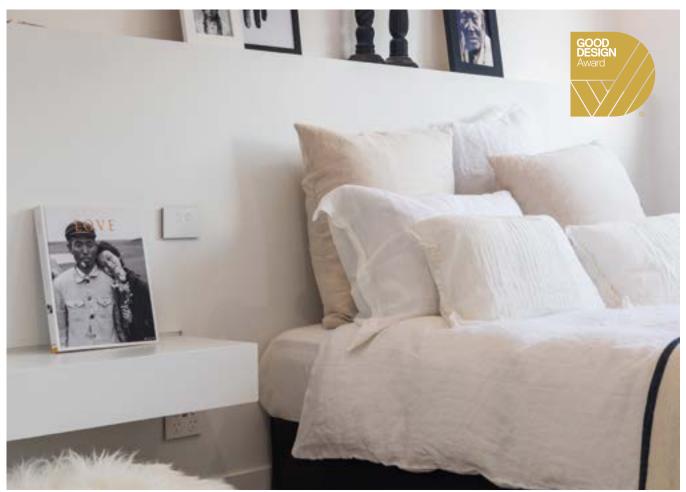


#### Kitchen tip



Get cooking with no restrictions. Install a quad power outlet so you can use multiple appliances at once.





Saturn Zen™ The beauty of simplicity

#### **Colour options**

electronic devices, even while they are

charging.



USB smart shelf



#### Strato 800 Series<sup>™</sup>

Contemporary style



IMPRESS push-button Brushed Aluminium → Black surround









New – USB charging



#### **Colour options**

O White Black O Brushed Aluminium ⊢Black surround **→** White surround

#### Base module colour options





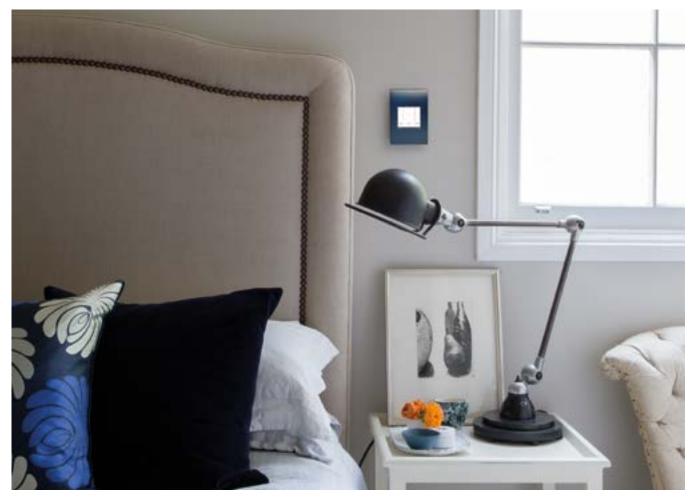


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#### Modena 800 Series<sup>™</sup>

European curves

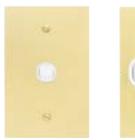


**Colour options** 



#### **Metal Plate Series**

Sleek and stylish metal



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Solid Brass



Stainless Steel



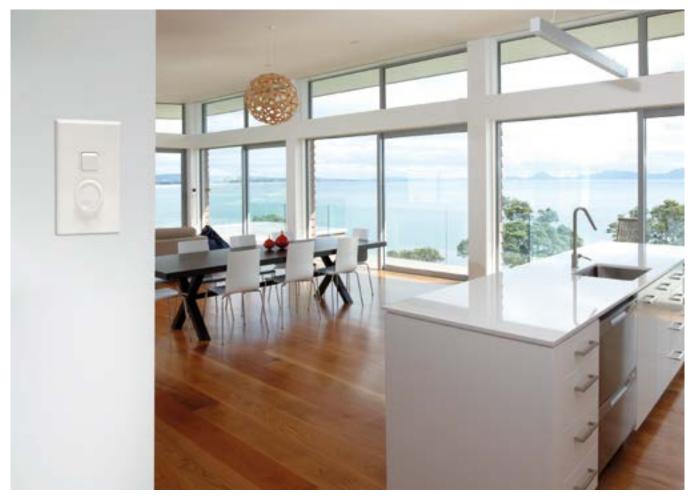
Solid Brass
Stainless Steel
Base module colour options
White
Black

**Colour options** 

#### Set the mood



Different light sources can have varying effects on a room's atmosphere. Warm white light creates a soft, relaxed and comfortable atmosphere suitable for bedrooms or living areas. Cool white light is much brighter and bolder, suitable for active areas such as the kitchen or laundry.



### 600 Series

Trusted range





Stainless Steel



I.

Brushed Bronze



IMPRESS push-button Stainless Steel







#### **Colour options**



Base module colour options





#### PDL Iconic<sup>™</sup> Range

Clever efficiency



#### **Colour options**

13



## 14 Latest solutions and ideas for your home

We're aware of the need to create technology for a changing world. With ever-increasing stresses on the environment, it's important to harness and use energy in a safe, efficient and sustainable manner.

You'll find a range of ideas and products that have been designed to enrich your life in an environmentally conscious way. Starting here is the perfect way to begin thinking about how the right products can transform your home and help keep your family safe.



## Electric vehicle charging – EVlink

#### Charge your electric vehicle faster and safer with EVlink

With our residential charging station, charge your electric vehicle faster, more reliably with greater safety than with a domestic socket-outlet.

#### Safe and Efficient

#### Up to 10 times faster\*

Depending on your electric vehicle and your EVlink Wallbox charging power, you can charge up to 10 times faster than a domestic socket outlet.

#### Simply plug in and charge!

When the light on the front of your wallbox starts blinking, you know your charge has started.

#### Optimum user protection

Powered by a dedicated branch circuit in your electrical switchboard that has been checked by a qualified electrician, EVlink Wallbox can operate with enhanced reliability, and without disrupting the rest of your home electrical appliances or circuits.

- Free or controlled access (key lock)
- > With or without attached cable
- > Power range: from 3.7 to 22 kW
- > For single-phase and three-phase networks
- > Water resistant and shockproof
- > Outdoor/indoor installation
- > Wall mounted

\* Based on 22 kW Wallbox version. With a 7.4 kW rating, you can charge up to 3 times faster

## PDL Iconic<sup>™</sup> Range. Next generation platform.



Modern, elegant design **infuses wall colour** through **translucent edges** for perfect symmetry **with surrounding wall décor** 

Based on a **sleek, clean design** with a slim **matt finish** that **blends in perfectly** with any environment

Internal safety flaps ensure the outlets are perfectly safe when closed, allowing the skins (cover plate) to be changed safely at any time





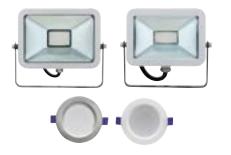
Iconic is future-ready with more skin designs in development providing regular style and function updates in the coming years

## A new level of defence against electrical fires

#### Arc Fault Detection Devices

Your home should be a safe haven for you and your loved ones. Technology advances now mean there is a better way to protect your home and family from electrical fire danger and risk. Best of all they are cost effective and easy to have installed. Find out more about Arc Fault Detection Devices on page 20 of this guide.





## Energy efficient & eco-friendly LED Lighting

LED lighting is a great alternative to your standard or halogen lights.

- > Energy efficient: uses up to 80% less energy
- > Cost effective: long lifespan of up to 30,000 hours
- > Fast switching: switch on and off instantly no fading or flickering
- > Dimmer compatibility: greater control over your light levels
- > Floodlights include a sensor version: reduced fire risk



### Pop-up power outlets

#### Say goodbye to messy cords and no access to power

> Incorporates a twin

and office

auto-switched socket outlet

> Safe power around the home

> Perfect for kitchens, pantries,

offices and workshops

Great for kitchen bench tops, our convenient pop-up power outlet's flush, compact design, allows powerpoints to be hidden when not in use.









White

Stainless steel

Black



## 16 Your energy efficiency options

Simple energy-efficient products make it easy!

#### PDL energy tip

Transform your standard light switch to be auto sensing.

Set and forget – put timers on heated towel rails and fans to keep their usage under control.

- > Monitor and reduce power consumption
- > Make the most of your energy and save money on electrical bills without compromising your lifestyle or the look of your home



#### Savings examples

All savings are estimates only and are based on an electricity tariff rate of 22c per kilowatt hour. Actual energy and cost savings will depend on individual usage patterns and local conditions.





Protect your most valuable assets

#### Safety tip

Surge protection can be installed to protect your valuable electronic equipment.

Hard wired smoke alarms can be interconnected for extra protection.

## Three unique aspects everyone must consider



- Equipment protection
- Peace of mind

Refer to colours below to see where they can benefit your home and family.

#### Safety products range



\* Some RCDs are designed for equipment protection



## Does your home have the best protection from fire?

## Arc Fault Detection Devices – a new level of defence against electrical fires in the home.

Your home should be a safe haven for you and your loved ones. Technology advances now mean there is a better way to protect your home and family from electrical fire danger, with PDL by Schneider Electric's arc fault detection device.





#### What is an Arc Fault Detection Device (AFDD)?

#### What does it do?

Our arc fault detection device monitors and protects circuits to lower the electrical fire risk.

Unlike anti-fire systems (smoke detectors, extinguishers) acting after the fire begins, arc fault detectors are designed to trip (like a circuit breaker) before cables or sockets experiencing arcing ignite, reducing the risk of fires caused by an electrical fault.

PDL by Schneider Electric AFDDs also work as a miniature circuit breaker (MCB) so it offers dual functionality, which means it can be used in place of an MCB in your home's switchboard.

#### Why do I need them for my home?

No other residential circuit protection device, such as circuit breakers or residual current devices can currently detect arc faults.

Arc fault protection has been mandatory in other countries for over 10 years. Adding a PDL by Schneider Electric arc fault detection device to your home's circuit protection, will offer the best available defence from electrical fires caused by arc faults.

The devices can be added to protect the circuits which are most at risk, such as living areas and bedrooms. They are an ideal addition for homes with older wiring, and rental properties.

Ask your electrician about installing PDL by Schneider Electric arc fault detection devices in your home, or visit our website for more information. Enjoy superior comfort, convenience and energy savings through the intelligent control of lighting and electrical devices.

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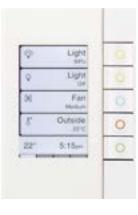
Streamline your life with a home of the future – intuitive, automated and connected.



## Make your home a Smart Home

Automating your home with smart home technology can be as simple as installing a single motion sensor, dimmer or timer. It could be as advanced as integrating multiple home technologies into an intelligent control system. With control via smart devices, the possibilities are endless.

Choose the level and scale of automation to best suit your lifestyle.



#### C-Bus Home Control

C-Bus Home Control gives you the options to customise the automation in your home.



#### Pre-programmed pack

A set option which suits the standard new home, to automate lighting control and electrical devices.



#### PDL home tip

Create a truly welcoming and safe feel to your home by installing motion sensors in your entrance and garage – switching your interior lights on the minute you get in the door.



#### Home connectivity

Allow for connections such as data, USB charging, electric vehicle charging and home audio.



### It's easier than you think!

#### Levels of Smart

Choose what you want to control in your home. Whether it's individual control, or a fully integrated system, there's something to suit your lifestyle and budget.

#### What You Can Control:



#### Planning your Smart Home

#### "Smart Home" might sound intimidating but with the right planning and advice, creating the right system for you and your family is easy.

Easily customisable to suit you and your lifestyle, when deciding what to include in your home control system it's important to consider the following:

#### Budget

Smart homes are scalable to your budget and needs. No matter what level of smart you choose, you'll enjoy the benefits.

#### Control

The scope of smart home technology is extensive, from basic control to whole home integration. By determining what elements of your home you wish to control, and how, you can decide what level of home automation is right for you.

#### Layout

Once you've worked out what elements you want to control, it's important to consider in which areas of the home you want to have this control. For instance, if you wish to implement multi-room audio, you will need to decide in which rooms you want it to play.

#### Functionality

The level of functionality you require will impact the type of networking and connectivity you need in your home.

#### Structured Cabling

- > Delivers data, video and digital signals throughout your home
- > Suited to new homes or renovations
- Performance standards guarantee faster, more reliable speed and signal consistency

### **C-Bus Home Control**

Integrate your electrical, multi-media and telecommunications technologies into one single user-friendly solution.

C-Bus Home Control provides seamless control of music, home theatre, lighting, air conditioning, sprinkler systems, curtains and shutters, and security systems.

With home control you can enjoy 24/7 connectivity, comfort and convenience – even when you are away from home.

To discuss a customised home automation solution designed with your needs in mind, contact us or a Schneider Electric C-Bus Approved Installer.

With C-Bus Home Control you can use your smart phone or tablet to monitor that all is well at home. You can even enhance your sense of safety by remote video monitoring of your home via your smart phone or office PC.



PDL by Schneider Electric has developed a pre-programmed pack to suit a new home. The pack is already programmed by an approved installer, so it's ready to be installed in your home by your registered electrician. Now it's easy to add automation to your home.



#### C-Bus pre-programmed pack

The C-Bus pre-programmed pack offers an easy to use lighting control system for your home with set functions already programmed.

With everything you need to control a standard home, the C-Bus pre-programmed pack is the simple solution to automate the lighting in your home's main areas.

The C-Bus pre-programmed pack includes all-on and all-off preset functions, and puts the power in your hands to set your own lighting scenes – party, theatre – the choice is yours!.

0	Light	Ŷ
C	Light	Ŷ
C	Fan Medum	*
C	Outside 22°C	8.
C	5:15pm	22°

#### What's included?

#### Standard Pack:

- > 1 x eDLT dynamic labelled switch, with up to 4 pages of options, with 4 switches per page, that is 16 options in one plate. This is your central controller.
- 3 x double switches, 3 x single switches, plus the switchboard controller devices, and cable.
- Enough to typically control the main living areas, kitchen, hallway, and master bedroom.

eDLT switch



3 x double switches

3 x single switches

## Bringing your music to life

### Bluetooth home audio

#### StarServe Audio Systems

Bluetooth home audio is a fantastic audio solution that combines the benefits of Bluetooth connectivity and crisp, clear audio anywhere in your home – without blowing your budget

#### Listen to what you want, where you want

Whether you want audio in the kitchen, bathroom or living room, Bluetooth home audio has the flexibility to let you enjoy music in the favourite areas of your home.

#### Wireless control, audio at your fingertips

Bluetooth home audio lets you enjoy control from your smartphone, iPod, tablet, or any Bluetooth enabled device. You can also personalise each speaker zone for easy identification and pairing.





- > Compact yet powerful for smaller areas
- Features an aluminium grille providing greater resistance for steam and moisture in bathrooms
- > Speakers sold in pairs
- > PIN code for secure access



#### 6.5" Speaker

- > For larger areas
- Features an aluminium grille providing greater resistance for steam and moisture in bathrooms
- > Speakers sold in pairs
- > 10m range
- > PIN code for secure access



#### Amplifier

> If you already have an audio system, but want enjoy the convenience of playing music via you smart device you connect via this Bluetooth amplifier



## Your connected home







## Stylish connectivity

Convenience is the major factor behind the development of New Zealand's most universal USB charger. We designed a charging module that fits into a multitude of different plate styles and finishes in our PDL range.

We've designed a charger using smart technology that delivers an optimum amount of charge with a minimum amount of current. This delivers extremely low stand-by power when not in use (<0.07W), 5 star energy ratings for energy efficiency, and efficient charging times.

They are perfect for your kitchen & living room, beside the bed, the study or home office.

#### Simple and organised

Tidy up the cables and connections in each room by installing TV aerial sockets, data sockets, speaker sockets, HDMI sockets or whatever is required neatly behind the entertainment unit, and have the cables behind the wall.

#### Stylish and convenient

A number of these connectors are required in high traffic and very visual areas, and with that it is possible to select a range to suit your style.

- USB charging outlets in the living room, kitchen, or beside the bed
- Audio input modules for connecting MP3 players



#### Making charging easy

Double powerpoint with USB.

The perfect charger for busy people. Ideal for living areas, bedrooms, kitchens and offices.



## 28 Planning for your home

- > What to think about
- > How to make it happen



### Ready to switch on?





#### **Electrical Selector Tool**

Our free Electrical Selector Tool available on our website <u>pdl.co.nz</u> will guide you through the electrical options to consider for your home. It will email you a customised PDF of your selections which you can pass onto your preferred electrician or building professional.



TRICAL SAFETY		THE SMART HOME
rge protection		Wear home control
& out-door sensor	$\phi$	Clactic which charging
ergency lighting	$\odot$	View Internet and a
loor range	8	$\equiv \Psi$
oka alarm		USB charging outlets
epicof switch		
dy amitab	+	
ety socket		Ostylish connectivity
Fault Protection	1	

#### Checklist

The checklist in this guide can also step you through your home electrical options, and you can discuss your options with your qualified expert.



#### Visit Us

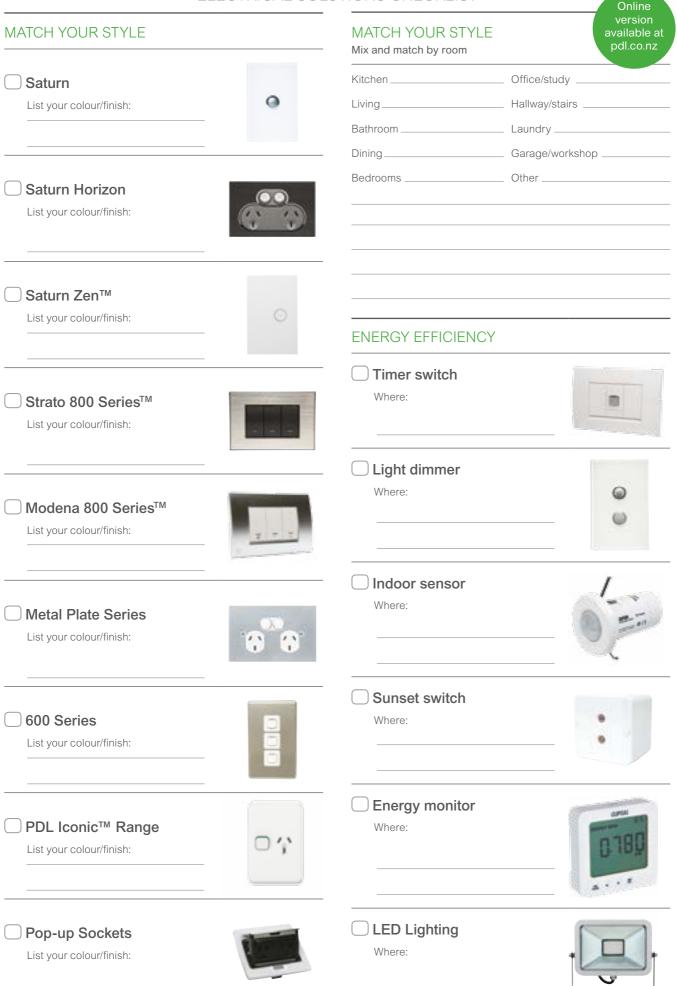
Come and see our fully interactive Vision Studio Showrooms in Auckland or Christchurch, and see our range of solutions including home automation in action.

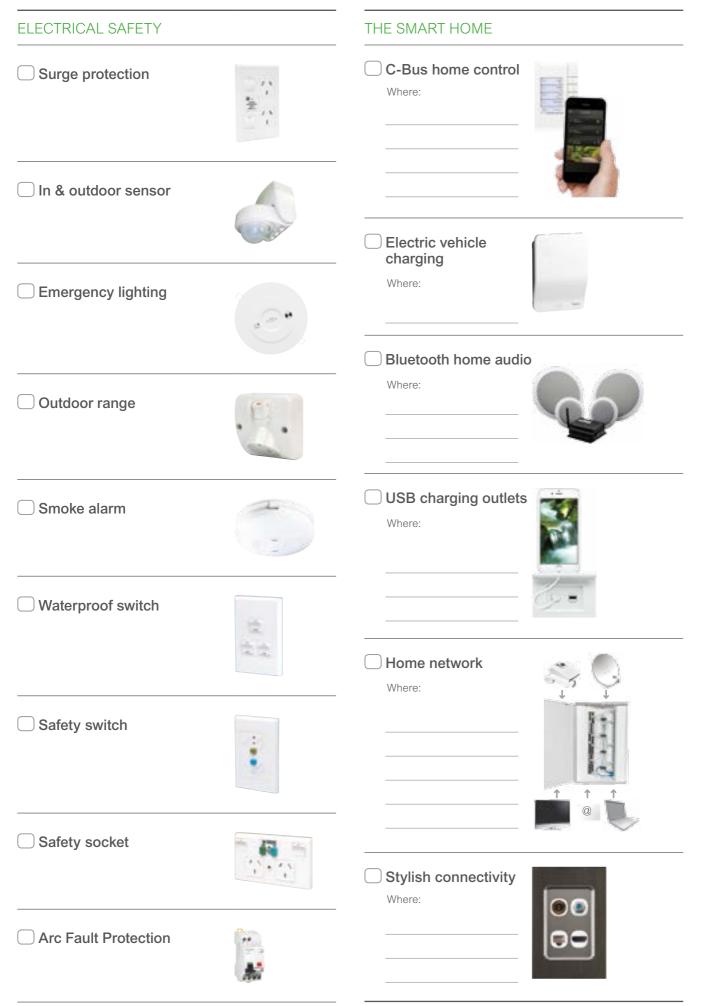
To make an appointment call 0800 568 888.

#### Have questions?

Visit our website pdl.co.nz, or call our customer care team on 0800 568 888.

#### ELECTRICAL SOLUTIONS CHECKLIST





#### ROOM BY ROOM HINTS AND NOTES

#### **Kitchen**

- $\hfill\square$  Motion sensors for pantry
- □ Plate style to match appliances
- □ Four-way socket outlets
- □ Pop-up socket for bench or pantry

#### Living room

- □ Dimmers to set the scene
- AV connections and surge protection to future proof and protect equipment
- □ USB charging for phones, tablets, and more

#### Bedroom

- Light, power, USB, phone connections near the bed
- □ Sensors for walk-in-robes and kids rooms
- 2-way switching to control lighting from different locations

#### Hallway/Stairway

- □ Sensors for main lighting
- $\hfill\square$  Sensors on a timer night circuit for low level lighting
- Back-lit switches to locate in dark
- □ Smoke Alarms interconnected for bigger homes

#### Laundry

- □ Extra power outlets for iron
- $\hfill\square$  Waterproof switches in wet areas
- □ RCD sockets for retrofit
- □ Sensors for lighting

#### Bathroom/En-suite

- $\hfill\square$  Timer on towel rail and fans
- □ Sensors for lighting
- □ Waterproof switches in wet areas
- □ Bluetooth home audio

#### **Dining room**

- □ Bluetooth home audio
- □ Ceiling speakers for background music
- □ Connections for phone, PC, TV, USB charging
- □ Mood lighting

#### **Office/Study**

- $\hfill\square$  Plan where data, HDMI, USB outlets should go
- $\hfill\square$  Surge protected outlets for electronics
- $\hfill\square$  Plan for future data, TV, audio

#### Outside

- Weatherproof outdoor socket outlets should be considered for each side
- Sunset switches and motion sensors for security lighting
- □ LED flood lights for safety and efficiency

#### Garage/Workshop

- $\hfill\square$  Power sockets for door opener, fridge or freezer
- □ Four-way socket outlets for work area
- □ RCD protected for electric shock
- □ Bluetooth audio ceiling speakers

#### SELECTION GUIDE

	Saturn Horizon	Saturn	Saturn Zen™	Strato	Modena	600 Series	PDL Iconic™	Metal Plate
SWITCHES								
Single switch	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Double switch	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Triple switch	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Four switch	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Five switch	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Six switch	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Two way switches	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Rotary dimmer	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Push button dimmer	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Fan speed controller	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Architrave single	$\bigcirc$	$\bigcirc$	$\bigcirc$			0	0	0
Architrave double	$\bigcirc$	$\bigcirc$	$\bigcirc$			$\bigcirc$	$\bigcirc$	$\bigcirc$
Oven switch	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Rocker (toggle) switch				$\bigcirc$		$\bigcirc$		$\overline{\bigcirc}$
Push button switch	$\bigcirc$	$\bigcirc$	$\bigcirc$		0	$\bigcirc$		$\bigcirc$
SOCKETS								<u> </u>
Single vertical				$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Double vertical				$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Single horizontal	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Double horizontal	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Double socket with USB	⊖ h	h	h			$\bigcirc$	$\bigcirc$	
Double socket with extra switch	h	O h	O h			$\bigcirc$	$\bigcirc$	$\bigcirc$
Single socket with extra switch	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	O h	$\bigcirc$
Quad socket horizontal	0	0	0		$\bigcirc$	$\bigcirc$	$\bigcirc$	
Quad socket horizontal with two extra switches	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$	$\bigcirc$	
Quad socket vertical						$\bigcirc$	0	
Quad socket square				$\bigcirc$	$\bigcirc$			
CONNECTIVITY & CONTROL				$\bigcirc$				
USB shelf horizontal			$\bigcirc$		·		$\bigcirc$	
USB charger (1, 2, or 3 options)	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
TV	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
HDMI	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Data	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Audio (speaker)	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Timer		<u> </u>		$\bigcirc$	$\overline{\bigcirc}$	$\bigcirc$	$\overline{\bigcirc}$	<u> </u>
Plate mounted PIR sensor				$\bigcirc$	$\bigcirc$	$\bigcirc$	~	
Safety Socket (RCD)				$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Surge Protection				$\bigcirc$	$\bigcirc$	$\bigcirc$	$\smile$	
C-Bus compatible	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$	<u> </u>		
o bus compatible	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$			

This is a summary reference guide for common household items. Each range contains other product options and functionality. Where some functionality is not showing as available, there are potentially other products that can provide a similar solution. For example motion sensors, timers, and safety switches. Please talk to our team or an electrician for further information.

Where not specified in the description an 'h' means horizontal option only

Products are subject to availability and may vary from what is listed.



Check out our fully interactive Vision Studio showrooms, or we can bring the consultation to you in the Auckland and Christchurch regions. Bookings by appointment, simply call 0800 568 888 or book online through our website.

#### Auckland Vision Studio

#### Christchurch Vision Studio

38 Business Parade South, (off El Kobar Dr) Highbrook, East Tamaki. 11 Moncur Place, Addington (off Wrights Road).

#### Stay Connected

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Life Is On

