

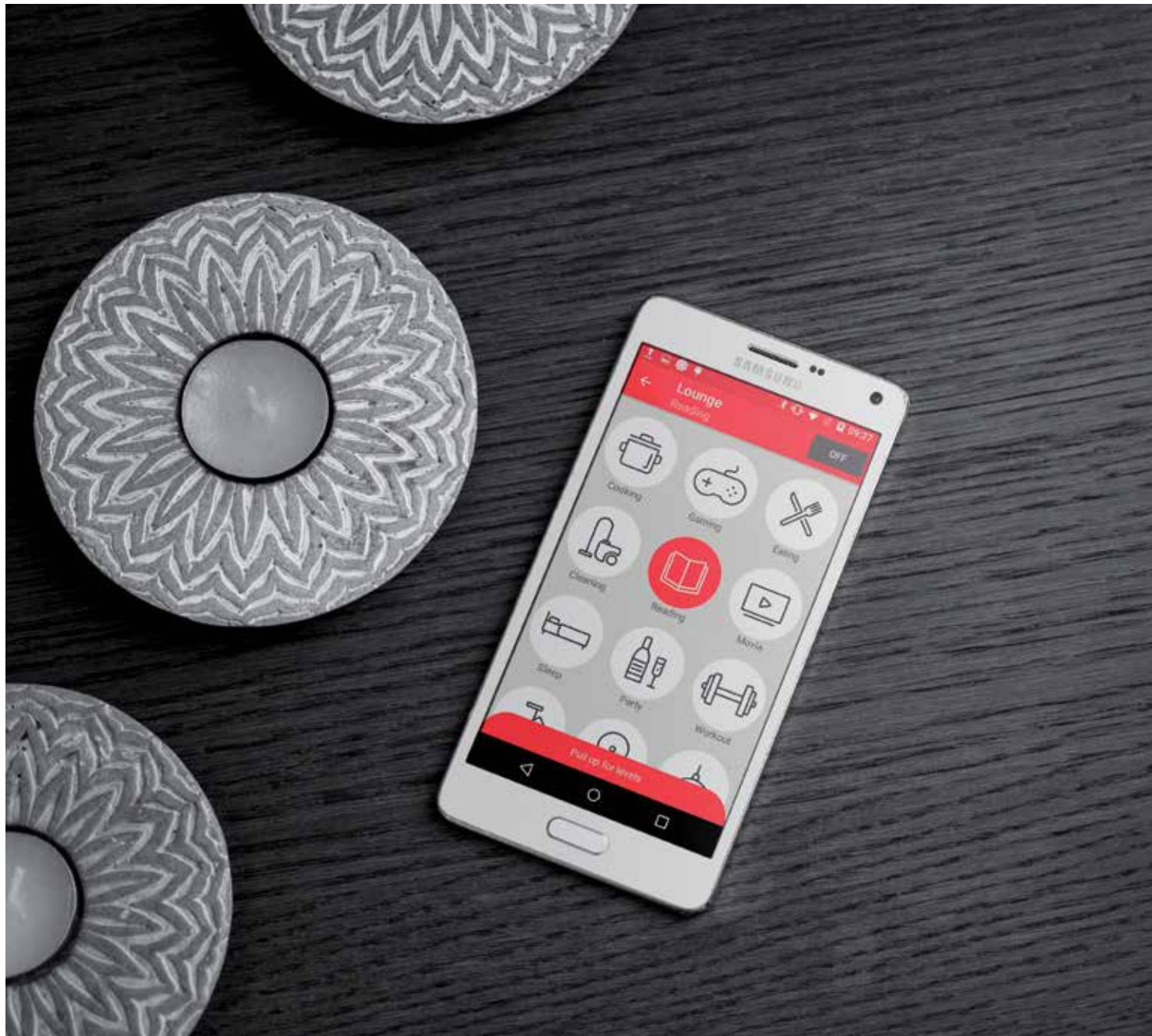


wandsworth
CONTROLS

WHERE BEAUTY
MEETS INTELLIGENCE

RESIDENTIAL | HOTELS | COMMERCIAL

wandsworthelectrical.com

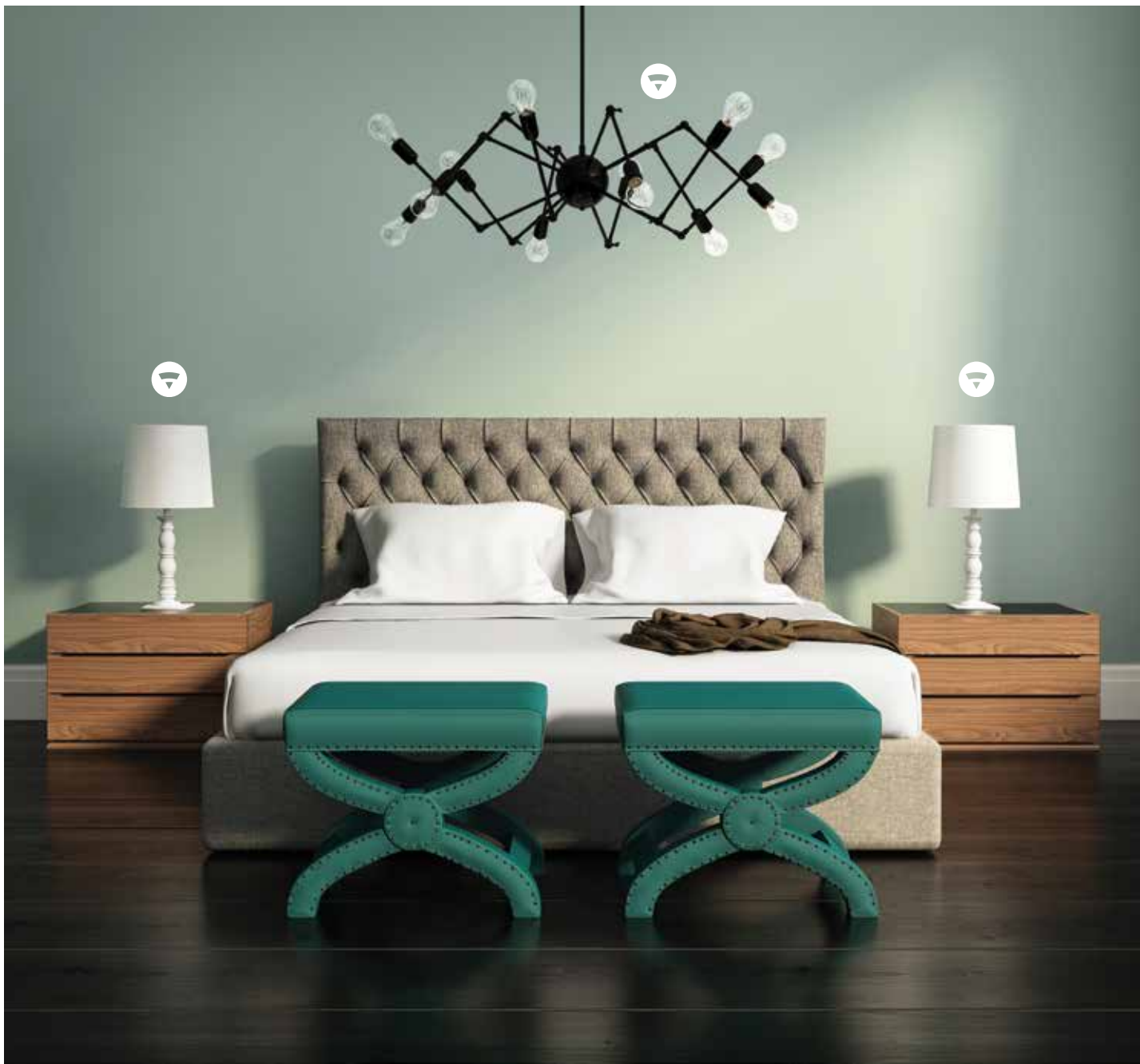


With over a century of design and manufacturing experience, Wandsworth is called upon by leading architects, interior designers and contractors to produce solutions that stand the test of time. With a selection of 7 premium collections, state of the art lighting control systems, as well as a bespoke design service, Wandsworth has become synonymous with quality, design and technical excellence.

Our beautiful collections work in harmony with our intelligent lighting control systems and simple to use apps, adding a new dimension to your design. Our Lighting Controls ensure Wandsworth keeps pace with the ever changing technology and future expectations of end users. This allows us to maintain our position at the forefront of innovative design and technical expertise.

Charlie Salter
Chairman

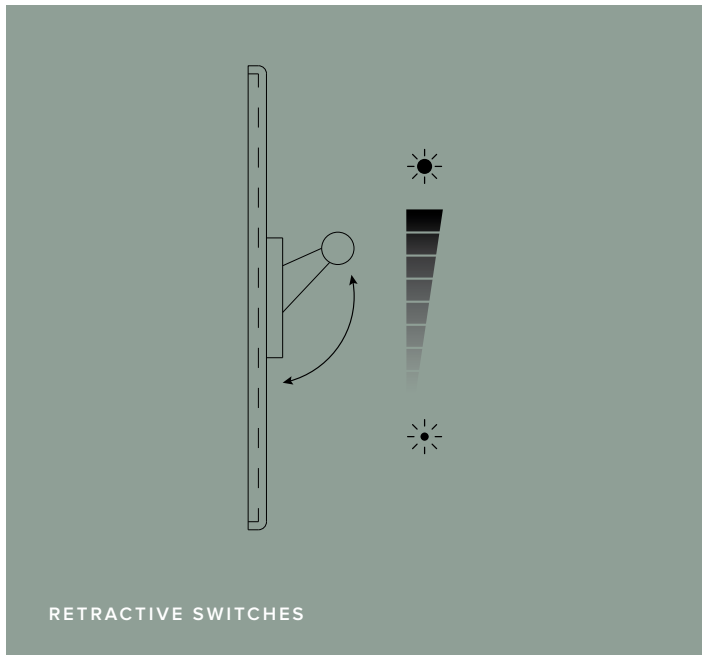




Beauty & intelligence

WITH NO COMPROMISES

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Our lighting controls combine a century of high quality, beautifully designed electrical accessories with advanced lighting control intelligence. Delivering all of the functionality of a high end lighting control system without compromising on front end aesthetics.

With the largest range of finishes and switching options including retractable rockers, toggles and bell push, plus numerous plate designs within our seven premium collections, Wandsworth Controls unique capability is the only choice where end users and clients demand beauty and intelligence. The simple to use control system has revolutionised the look and capability of lighting systems, creating a myriad of possibilities. Selected and installed in luxury residential houses and apartments, hotels, restaurants and commercial buildings where design and simplicity are required.

Intelligence stretches to smart control with our user-friendly and customisable app that allows control of lighting from the palm of a hand. The app enables control of the light scenes in a room, ensuring the appropriate light setting is used at all times.





LIGHTING CONTROLS AT BOURNE ESTATE (Designed by McCrum Interior Design)

OUR SERVICES

Concept development

LED Dimmer testing

Room mock up

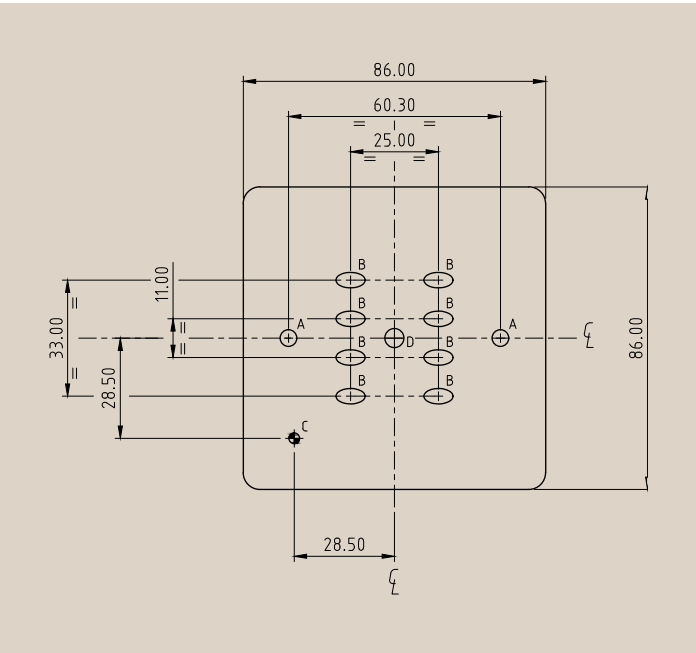
Luxury finishes & custom design

Project tailored system

Single room or multi site configuration

Mains dimming & DALI based solutions

1-10V analogue dimming systems



Concept to completion

WITH YOU EVERY STEP OF THE WAY

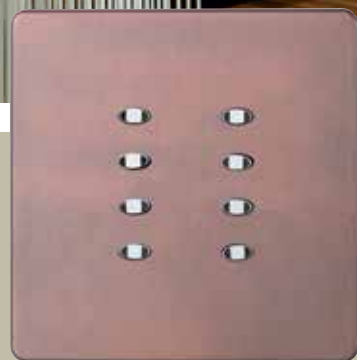
Lighting control technology evolves at a rapid rate, this speed of change can make the process of selecting the correct system complex and problematic.

With many years of experience, our in-house professional design and advisory team will guide you through each stage, creating a system that provides exactly what you need and no more. Delivering a lower level of complexity and a drastic reduction in costs compared to alternative solutions.

No matter the size of the project, our design team will configure the correct lighting controls set-up that will meet your lighting objectives. From a simple room set-up to large multi-room projects we have the systems and capability to deliver an unmatched, bespoke user experience.

Working with homeowners, hotel designers and facilities managers, as well as lighting designers and electrical contractors, our system has been used in a large variety of settings. Helping provide the ultimate experience in hotels, setting the correct ambience in restaurants, saving energy in commercial settings and creating scenes that match rooms' multiple uses in apartments and houses.

As no industry standards exist for the performance of an LED, each manufacturer produces LED products according to their own design parameters. Therefore, LED and drivers need to be matched to the control system. Our technical team within our testing laboratory ensure that the fittings and drivers specified work optimally for your project. The testing service will trial our range of dimmers and dimming systems with any samples that we are supplied with.



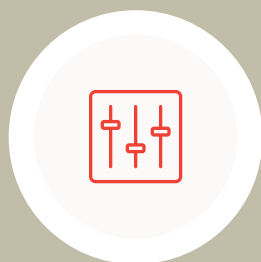
Elliptical shaped buttons



Lozenge shaped buttons



Round shaped buttons



BRIGHT AS A BUTTON

Our Prism software enables the backlights on our scene plates to be set to your required colour - with 16 million options you can even match to a corporate colour (Only available with Round and Lozenge scene plates).

Simply Smart

VERSATILE CONTROLS SYSTEM

Modern lighting controls provide numerous options. Our intelligent lighting control system delivers a wide range of features and capabilities, yet is controllable with a simple to use interface that allows the controlling and programming of scenes and lights to be a smooth and trouble free process.

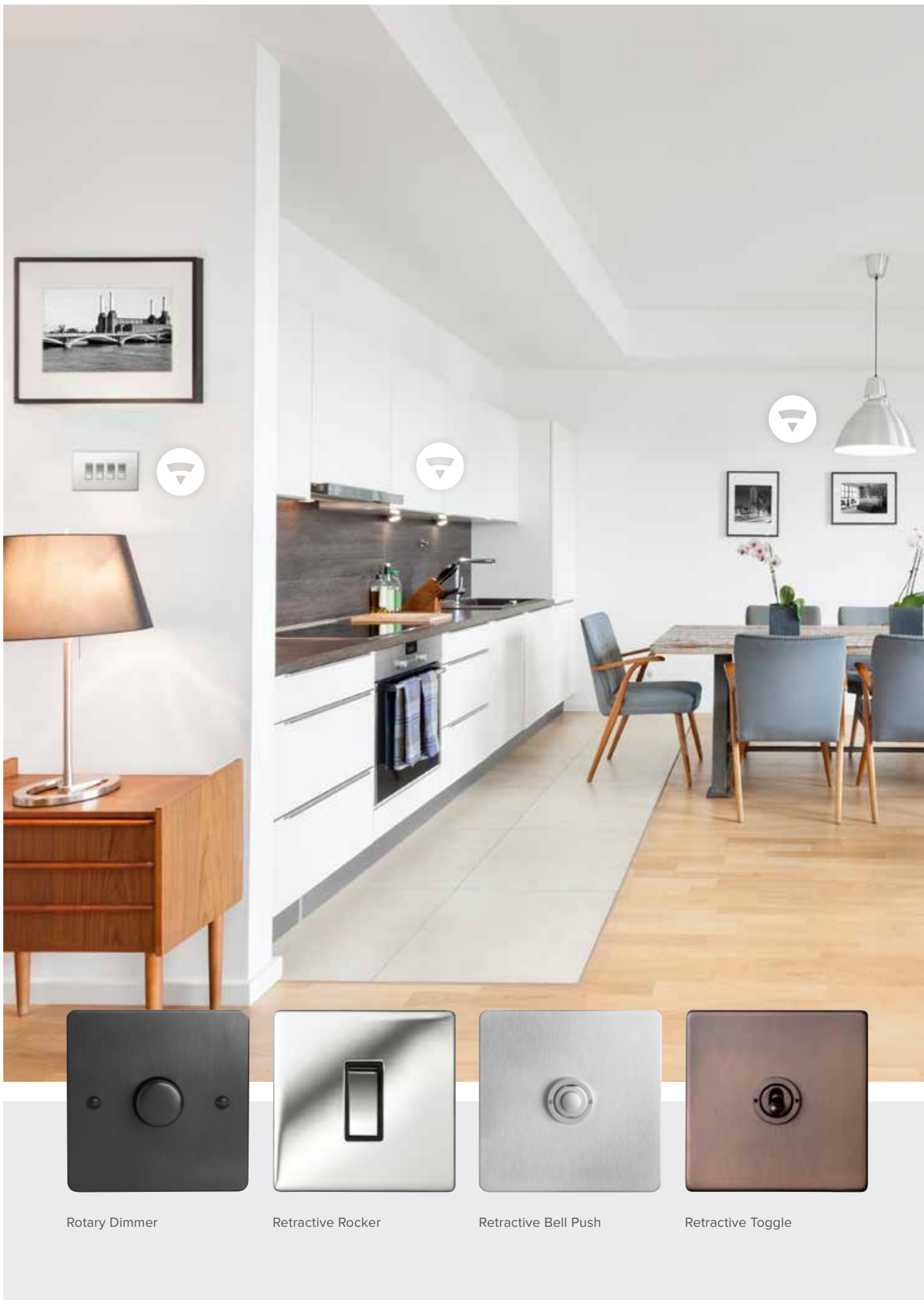
Fully customisable and simple to programme, you can set all the lights in a room for a particular mood or task, dim lights or a group of lights up and down, or take control of each and every lamp and light in a room.

The versatile control system enables the perfect solution to be created that balances energy conservation, design requirements and ease of use. The in-built versatility allows it to be used in a wide range of locations, from high-end apartments to hotel and commercial settings.

Our scene plates are handcrafted to the same impeccable quality standards as our electrical accessories and with various button configurations and design styles, plus the capability to finish the scene plate the same as the other electrical accessories, Wandsworth Control scene plates combine beauty with intelligence.

The scene based controls help deliver the perfect room ambience and the library of scenes offer a series of pre-programmed light settings that can be simply selected from the beautiful scene plate, or an app on your smartphone. Available across 6 of our premium collections the scene plates are beautifully designed using our century of design finesse and manufacturing know-how.

The control boxes for our system require minimal space and are significantly smaller than others on the market allowing them to be discreetly and easily installed into compact spaces.



Total Control

ANY SWITCH FOR LIGHTING CONTROL

Everybody is aware of the basic lighting control afforded by rotary dimmers. With these, you can not only turn lights on and off but adjust the light levels up and down, so they reflect the room's current use or requirement. However, the ability to dim lights up and down is not restricted to just rotary dimmers.

Wandsworth Controls offer retractive dimmer packs, which enable the lights to be turned on and off, as well as the light levels up and down with any switch type. Available across our collections and in multiple finishes the rockers, toggles and bell push, can deliver the same lighting control experience as rotary dimmers.

Retractive switches and dimming packs are the simplest option for lighting control and operate via a 'push to make' switch. The switch controls both turning on and off as well as the dimming. When the switch is pressed and held it will dim the lights down, another press and hold will dim the lights back up. A momentary push will switch off and turn on.

Very simple to set up and wire, the retractive switches and dimmers packs are a fast-growing lighting control option, as such we have been fitting them into a number of major projects across London. Chosen for their ability to offer lighting control, whilst not compromising on the design, as you can select the required plate finish and switch type that is appropriate to the rooms look.



Integrated Control

BEAUTIFUL INTERFACES FOR HEATING, HVAC & BMS

FEATURES

- Multifunctional display showing current and desired temperature
- Simple menu for setting desired temperature and adjustment of timers
- Automatic or first touch display illumination
- 7 Day Timer (Able to split into 5-2 Blocks)
- Memory retention during power cuts
- Heating Control with up to 6 comfort levels per day
- Temperature display in OC or OF
- Blue OLED (Organic LED) display with wide viewing and readability
- Styled to match Lighting Control Panels and Electrical Accessories
- Complete integration with Wandsworth Lighting Control system



ThermOLED

The ThermoLED is an integrated Thermostat with OLED display for quick touch temperature control. As a room control thermostat, it monitors both ‘ambient air’ temperature and ‘under floor’ heating temperature (Water or Electric systems).

With seamless integration with the Wandsworth Lighting Control system it is available across 5 of our premium collections and in each finish or a custom finish if required, helping maintain a consistent look to all the lighting control panels and electrical accessories.

Advanced features include the ability to set the timing of operation, with the added capability to plot the 7 days into a 5 and 2-day blocks. 5 for the working week and then 2 for the weekend plus the ability to set 6 different comfort levels per day. The temperature can be controlled either using the sensor in the room, the sensor in the floor or as a combination of the two.

Additional integrated controls include the Ethermo a BMS (Building Management System) programmable front-end interface. Connecting into the BMS HVAC, it enables this interface to be consistent with the finish and design style of the other electrical accessories and control interfaces used within the projects design.

Our DND (DO Not Disturb) control plate is an illuminated Do Not Disturb notice, which maintains a consistent design style with the other control systems and is available in a large variety of finishes. The DND is ideal



Smart Touch



Library of Scenes



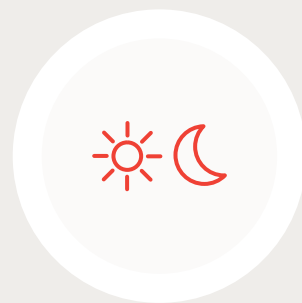
Kaleidoscope of colour



7 Day Replay



All on, All off



Daylight Harvesting



Smart Control



Open Ecosystem

Beautifully controlled

MULTIPLE INTELLIGENT FEATURES

Smart Touch - Our lighting control system is unique, as it can be controlled by any rocker, toggle switch or bell push. Our holistic approach to lighting control means that you can incorporate any of our premium collection plates into your lighting vision knowing that it will function flawlessly.

Library of Scenes - Creating a library of lighting moods and scenes is really limited by one's creative imagination. Our system gives you full control of the type of mood and scene you wish to create, plus the ability to activate at the flick or push of a switch.

Kaleidoscope of colour - Our Prism software gives you the power to create and select the most beautiful scene colours all at the touch of a button. Through simple interfaces and programming, you can create amazing lighting scenes that reflect your mood. This truly remarkable software is versatile, allowing a multitude of different mood lighting depending on the occasion.

7 Day Replay -Our security lighting feature allows you to capture up to 7 days of lighting events, which can then be used by our system to replicate your daily lighting activity. The system naturally reflects your daily habits, making it a great deterrent against burglars when you are away from home.

All On, All Off - We can incorporate a simple all on and off switch, that allows the user to override existing controls. A simple flick of a switch will allow the user to turn all lights on or off, without losing any preprogrammed settings stored in the control system.

Daylight Harvesting - As natural light fluctuates throughout the day our system adjusts the ambient lighting levels to take advantage of the natural light in your space. This tool allows you to create a complete energy efficient system, resulting in reduced environmental impact and lower financial costs.

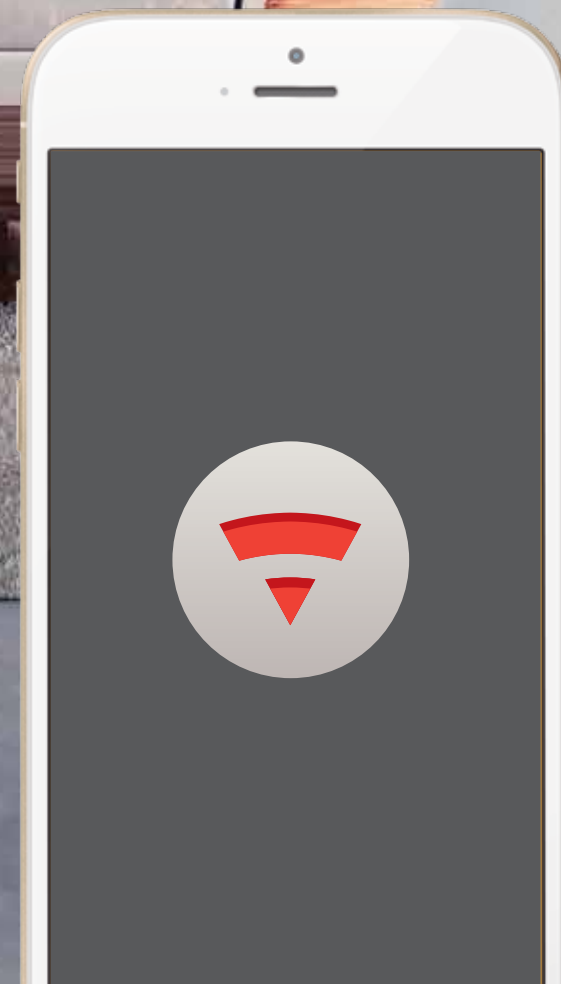
Smart Control - Control your system using your mobile phone or smart device; You can adjust lighting levels, turn lights on or off and program specific timed events all from the use of a mobile app. Our software relies on geofencing and is therefore aware as soon as your smart device comes within a network range, allowing you to trigger automatic events whenever you need.

Open Ecosystem - The integrated programming software makes our system easy to use and provides the opportunity to make modifications to all parameters as you require. With no main processor or power supply, our control systems are completely modular meaning they can be easily extended by adding additional units. Our control system can be seamlessly integrated with other home automation systems.



Touchscreen Control

Our lighting control app, available for both Android and iOS, allows smart control of your lighting from the palm of your hand. You can use the app to control the light scene of a room, ensuring the appropriate light setting is selected for the current use of the room.



Switch Options

Our unique intelligence allows our lighting control systems to be controlled by any rocker, toggle or bell push switch and each collection is available in an industry leading selection of finishes. Wandsworth Controls are the clear choice for clients who demand beauty and intelligence.



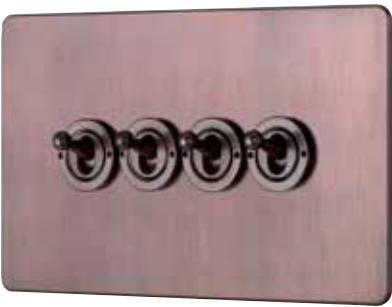
Rotary Dimmer



Retractive Rocker



Retractive Bell Push Switch



Retractive Toggle

Compatability

	Rotary Control Series	IR Series	Network System
Rotary Dimmer	●	●	●
Retractive Rocker		●	● *
Retractive Bell Push Switch		●	● *
Retractive Toggle		●	● *
Scene Plate - Eliptical			●
Scene Plate - Lozenge			●
Scene Plate - Round			●

Requires WLC4xRI

Scene Plates

Much like how an artist paints a scene by using the correct colour combination to delight our senses, our collection of scene plates empowers the user to select the appropriate scene from their library, ensuring the correct light setting is used to echo the current use of the space, improving the comfort of the room.



Elliptical

A scene plate with silver elliptical shaped buttons and blue illumination.



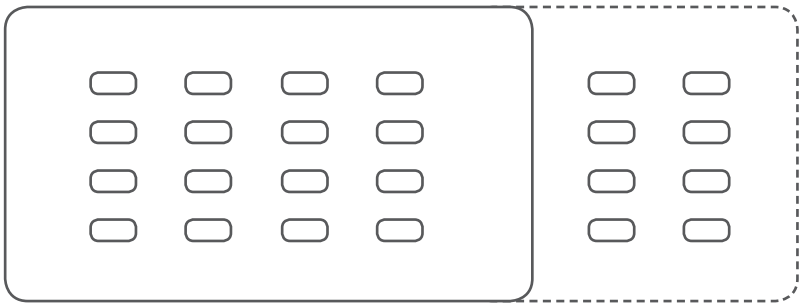
Lozenge

A scene plate with lozenge shaped buttons that are available in black or white and programmable colour LED illumination.



Round

A scene plate with round buttons that can be matching or contrasting, in a metal finish and with programmable colour LED illumination.



Bespoke design

No matter what your requirements our team of designers can produce bespoke designs to match your project requirements.

Engraving

With the capability to engrave on any of our plates, you can be at ease knowing that any user of the lighting control system will be informed of the function of that plates buttons.

Our Collections



PENTHOUSE

The pinnacle of design artistry and technical skill, the Penthouse Collection is home to our finest creations. Stylish lines and extraordinary skill come together to deliver the most exceptional electrical accessories possible. The design for this collection features a slimline, screwless flat plate with hidden clip-in fixings for a flush finish; an ideal complement to any interior.

PRODUCT RANGE

7 x Standard Finishes
Bespoke finishes available

- Rocker Switch
- Toggle Switch
- Bell push Switch
- Dimmer Switch

Scene Plates



INFINITY

The Infinity Collection presents a range of sophisticated, slimline accessories. Our craftsmen have precision engineered a simple, screwless design with a neat wall-mounting grid that enables plates and interiors to be clipped into place after decorating, for a clean, high quality finish. The design for this collection features a screwless flat plate with hidden clip-in fixings for a flush finish.

PRODUCT RANGE

7 x Standard Finishes
Bespoke finishes available

- Rocker Switch
- Dimmer Switch

Scene Plates



CLASSIC

Traditional, understated design and skilled craftsmanship are the signatures of the Classic Collection. Each stylish accessory features a sleek, flat plate and is made with solid brass, stainless steel or aluminium for a superior, dependable quality. The result is a high-quality, low-profile finish that is the hallmark of Wandsworth.

PRODUCT RANGE

7 x Standard Finishes
Bespoke finishes available

- Rocker Switch
- Toggle Switch
- Bell push Switch
- Dimmer Switch

Scene Plates



SQUARE EDGE

The traditional, understated design and skilled craftsmanship of the Classic Collection but with a square edge design. Featuring low profile, flush fitting plates and available in a huge variety of standard as well as bespoke finishes, the Classic Square Edged collection brings Wandsworth's hallmark quality to any interior design scheme.

PRODUCT RANGE

7 x Standard Finishes
Bespoke finishes available

- Rocker Switch
- Toggle Switch
- Bell push Switch
- Dimmer Switch

Scene Plates



CRYSTAL

With individual interior design expression in mind, we have combined subtle elegance, ingenuity and quality craftsmanship to create the Crystal Collection. Wall treatments are clearly visible through our transparent plates, and yet they are protected by the durable, scratch-resistant acrylic. The result is an understated look that will enhance and protect your unique design style for years to come.

PRODUCT RANGE

4 x Standard Finishes

- Rocker Switch
- Toggle Switch
- Bell push Switch
- Dimmer Switch



HERITAGE

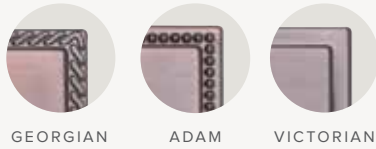
Bringing together the period elegance of three unique historical eras, the Heritage Collection presents a line of accessories with Victorian, Adam and Georgian detailing. Distinctive, flawlessly executed pattern work reflects each period: the Victorian range is characterised by a stepped edge; beaded edging reflects the Adam era; and a rope edge conveys the spirit of the Georgian age.

PRODUCT RANGE

3 x Standard Finishes
Bespoke finishes available

- Rocker Switch
- Toggle Switch
- Bell push Switch
- Dimmer Switch

Scene Plates





BOURNE ESTATE

The Bourne Estate is an Edwardian Housing development and is famous for its free Classical style and with Arts and Crafts touches. Our intelligent lighting controls have been installed into the private redeveloped apartments within the famous estate.



SAVOY HOTEL

The Savoy Hotel is premium luxury personified. To ensure its guests have the ultimate experience. The Savoy has installed Wandsworth Controls in both the Presidential and Royal Suites.

THE NED HOTEL

The former Midland Bank headquarters in the City of London is being transformed into 6-star hotel with luxurious suite's. Each suite's lights will be controlled by a Wandsworth Controls System.

Schematic drawings



WANDSWORTH CONTROLS

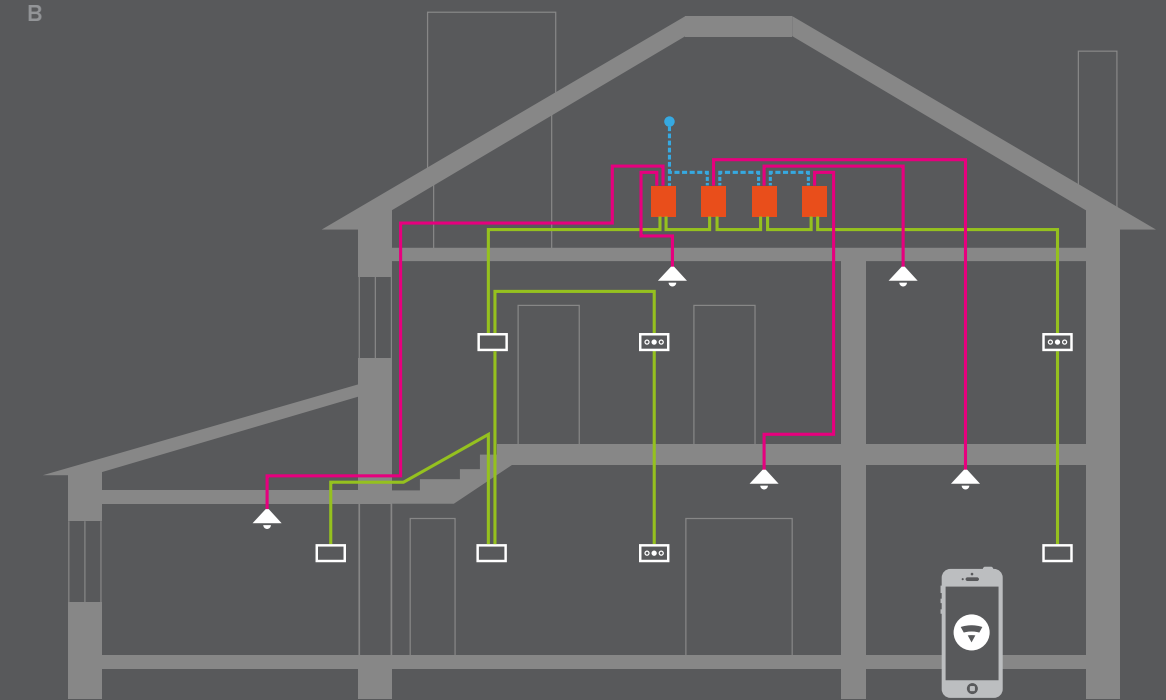
Wandsworth Lighting Controls units can be positioned wherever is most convenient. Placed either next to luminaires or switches as shown in drawing A or Grouped together in a cupboard or loft as shown in drawing B.

DISTRIBUTED INTELLIGENCE

Wandsworth Lighting Controls system utilises distributed intelligence and all our components come with built-in intelligence and power. The result is that our control system is simple to plan and construct as it has been designed to remove complexity.

The planning of our system is simple, you just need to specify:

- Which Control Protocol is required
- The amount of channels required
- Type of switching to be used



Once these have been decided you join all the components with a cat5 cable and you have an intelligent lighting control system.

As the system is modular it is easy to expand and upgrade, you simply join the additional components with cat5 and the system has been expanded.

Distributed intelligence systems are the preference for modern lighting control designs as centralised systems generally require separate power and processing modules, and can therefore be problematic to expand or upgrade in the future.

System Integration

Wandsworth Controls offer a truly customisable range of mains dimmers that can be switched between leading and trailing edge to suit application. Designed with LED dimming in mind and using modern technologies to eliminate the flicker and buzzing commonly associated with dimming systems. We are also able to control: Incandescent tungsten and halogen LED lamps, fluoresent dimmable 1-10V ballasts drivers and dimmable DALI drivers. Also available is a range of volt–free relay boards that can be used to switch power circuits such as non–dimmable lighting circuits, fans, electric curtains & blinds, electric gates etc.

When the dimmer or relay boards are combined with control-modules from the Wandsworth accessories collections, a scene-based lighting-control system can be constructed to suit installations large and small, domestic or commercial. The control-modules are connected to the dimmers with a low-voltage CAT5 network.

ROTARY DIMMERS: ROTARY CONTROL SERIES

Our rotary dimmers, available across each of our collections and in each finish or a custom finishes if required, offer the basic level of lighting control. The rotary dimmer provides control of the brightness of your lights, with far left as the lowest lighting level and far right the brightest with a push on/off function to turn the lights on and off.

WLC CODE	Description
RTD120	Rotary Dimmer for 5W-120W LED, Trailing Edge
RLD300	Rotary Dimmer for 40W-300W Leading Edge
RAD	Rotary Dimmer for Analogue 1-10V Controls system
ROO	Rotary On/Off module

IN LINE DIMMER RANGE: IR SERIES

Our single channel In line dimmers can be controlled by a retractive rocker, toggle or bell push switch providing on/off and dimming control. The unit can be mounted in a remote position, commonly in the ceiling void and can be controlled by more than one switch allowing simple multi-position control of a lighting circuit.

WLC CODE	Description
WLC IR1X150TD	WLC inline, retractive enabled, single channel MOSFET (leading/trailing edge) dimmer 150W
WLC IR1XRLY	WLC inline, retractive enabled, single channel relay
WLC IR1X600LD	WLC inline, retractive enabled, single channel TRIAC (leading edge) dimmer 600W
WLC IR1XAD	WLC inline, retractive enabled, single channel analogue (1-10V) dimmer
WLC IR1XDD	WLC inline, retractive enabled, single channel DALI/DSI output module

NETWORKED SYSTEM: DIMMER RANGE

Designed to provide either one, two, three or four channels of network-controlled lighting. Packs can be grouped together locally or spread out within a building, providing a highly versatile solution when space is at a premium.

The plastic enclosure on the single channel version is designed to pass through a standard down light aperture, so is ideal for use with circuits where access to the ceiling void is difficult, as well as on, in or underneath cupboards.

WLC CODE	Description
WLC IN1x600LD	WLC inline networkable single channel TRIAC (leading edge) dimmer 600W
WLC IN1x150TD	WLC inline networkable single channel MOSFET (leading/trailing edge) dimmer 150W
WLC 2x600LD	WLC two channel TRIAC (leading edge) dimmer 600W
WLC 4x600LD	WLC four channel TRIAC (leading edge) dimmer 600W
WLC 4x600LDF	WLC four channel TRIAC (leading edge) dimmer 600W + fan
WLC 2x150TD	WLC two channel MOSFET (leading/trailing edge) dimmer 150W
WLC 4x150TD	WLC four channel MOSFET (leading/trailing edge) dimmer 150W
WLC 1x1200LD	WLC single channel TRIAC (leading edge) dimmer 1200W
WLC 2x1200LD	WLC twin channel TRIAC (leading edge) dimmer 1200W
WLC 1x5000LD	WLC single channel TRIAC (leading edge) dimmer 5000W

NETWORKED SYSTEM: RELAY PACKS

Wandsworth relay packs are available as single or multichannel units and are ideal for the control of electric blinds, curtains, fans and electric gates etc. Relays can be used in conjunction with multichannel dimmer packs and control plates for use in scene setting scenarios.

WLC CODE	Description
WLC 2XRLY	WLC twin channel relay (10A high inrush)
WLC 4XRLY	WLC four channel relay
WLC 4XRLY-SG	WLC four channel relay optimised for Silent Gliss 5090 curtain track
WLC IN1XRLY	WLC inline networkable single channel relay
WLC IN2XRLY	WLC inline networkable two channel relay (6A - no high inrush)

System Integration

NETWORKED SYSTEM: 0-10V DIMMERS

For the control of 1-10V dimmable ballasts (Fluorescent lighting) and LED drivers. Available in 1, 2 or 4 channels Wandsworth 0-10V dimmers can be combined with other modules from the range to create a comprehensive and versatile lighting control solution.

WLC CODE	Description
WLC 2XAD	WLC twin channel analogue (1-10V) dimmer
WLC 4XAD	WLC four channel analogue (1-10V) dimmer
WLC INIXAD	WLC inline networkable single channel analogue (1-10V) dimmer

DALI INTEGRATION MODULES

The DALI Integration module allows the Wandsworth system to connect and integrate with any devices operating on a DALI network. Each channel can control up to 32 DALI or DSI devices, when used in conjunction with other modules and devices from the Wandsworth Lighting control range. The control plates are connected to the Controller using low voltage CAT5 style cable and data communication, supported by the Hy-Net protocol, which is a proven robust interface with an integral watchdog facility. Controllers have the advantage of individual DIP switches per channel which dramatically reduces the need for laptop configuration.

WLC CODE	Description
WLC 4XDD	WLC four channel DALI/DSI output module
WLC 4XDDP	WLC four channel DALI/DSI output module PCB only
WLC INIXDD	WLC inline networkable single channel DALI/DSI output module

NETWORKED PROGRAMMING & CONTROL

Using a Network box interface as a bridge between the lighting network and an Ethernet network, normally via a Wi-Fi router, our system can be controlled wirelessly by devices such as iPhone, iPad, PC and laptop from anywhere in the building. The router can also be configured to allow external access, meaning it is possible to monitor and control the system from anywhere. You can also integrate with an existing media control centre, using http strings to control your lights from the media centre for home cinema applications.

WLC CODE	Description
WLC INNET	WLC inline networkable Ethernet bridge module

Glossary

MAINS DIMMING (LEADING AND TRAILING EDGE)

Mains dimming is the oldest dimming protocol and is the type most likely to be seen in the home, as well as in shops, bars and restaurants. The system relies on reducing the voltage that reaches the LED fixture, typically by ‘chopping-out’ parts of the alternating voltage. Mains dimming was designed originally for filament lamps, when a simple voltage reduction meant a lower light output. Since the development of LED lighting (and to a lesser extent, electronic ballasts for fluorescent lighting) mains dimming has been offered in two different types;

- Leading edge dimmers, sometimes known as TRIAC’s, are suitable for either Inductive loads (e.g. magnetic – or wire wound – transformers/ballasts) or Resistive loads (e.g. incandescent lamps). Leading-edge dimmer switches are sometimes called ‘incandescent dimmers’, as they were originally designed to handle the resistive load of incandescent light (traditional lightbulbs). Existing dimmer switches tend to have high minimum loads and may require multiple LED fittings in order to work correctly.
- Trailing edge dimmers, sometimes known as MOSFET’s, are suitable for either Capacitive loads (e.g. electronic transformers/ballasts/drivers or Resistive loads. Trailing-edge dimmer switches tend to work better with the capacitive load of an LED driver, and are generally smoother, without the buzzing which can sometimes be evident with leading edge dimmers.

DALI & DSI

- DALI (Digital Addressable Lighting Interface) is generally used to provide area lighting control over a number of lighting circuits. It relies on an additional two-core cable connection between the dimmer control and the LED driver. The DALI protocol provides 256 levels of brightness between off and 100%, which is translated to a power level via a logarithmic dimming curve. This curve gives larger increments in brightness at high diming levels and smaller increments at low diming levels. DALI can be either addressable, where up to 64 devices over 300m of cable can each have their own address, and be controlled independently. Alternatively, a simpler method is DALI broadcast in which a circuit of luminaires is controlled as one. This has the benefit of not being restricted by either addresses or by control cable length.
- DSI (Digital Serial Interface) was developed by Tridonic, and can generally be seen as the forerunner of DALI.

ANALOGUE DIMMING (0-10V & 1-10V)

Analogue dimming uses a DC signal (0-10v or 1-10V) between the control plate and the LED driver. As the signal voltage changes, so does the light output. Dimmable fluorescent ballasts and dimmable LED drivers often use 0–10 V control signals to control dimming functions. In many cases, the dimming range of the power supply or ballast is limited. If the light output can only be dimmed from 100% down to 10%, there must be a switch or relay available to kill power to the system and turn the light completely off.



wandsworth
CONTROLS

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