PHILIPS
dynalite

Application notes

Residential

Residential lighting control has traditionally comprised conventional mains switching and rotary pot dimmers on individual switched circuits, perhaps with additional mechanical timers. A design such as this has limited functionality, as it relies on either the manual operation of each circuit or on the static schedules from the timers. By comparison, a Dynalite lighting system is able to create different moods across the home at the simple press of a button. It has been designed for intuitive operation and is able to greatly improve safety, convenience, comfort and energy efficiency within the home.

- Provides a physical backbone for a large range of integration possibilities such as AV, security, blinds, awnings, heating and air conditioning, creating a complete environment for the home user

- Dimmed lighting and preset scenes effortlessly create different moods and reduce energy consumption

- Integrates with security to provide automatic emergency lighting

- Modular controllers deliver maximum design flexibility

- System is customizable to the exact needs of each living space

- Sensors and timeclocks automatically adjust lighting for occupant behavior and seasonal or time/date based preferences
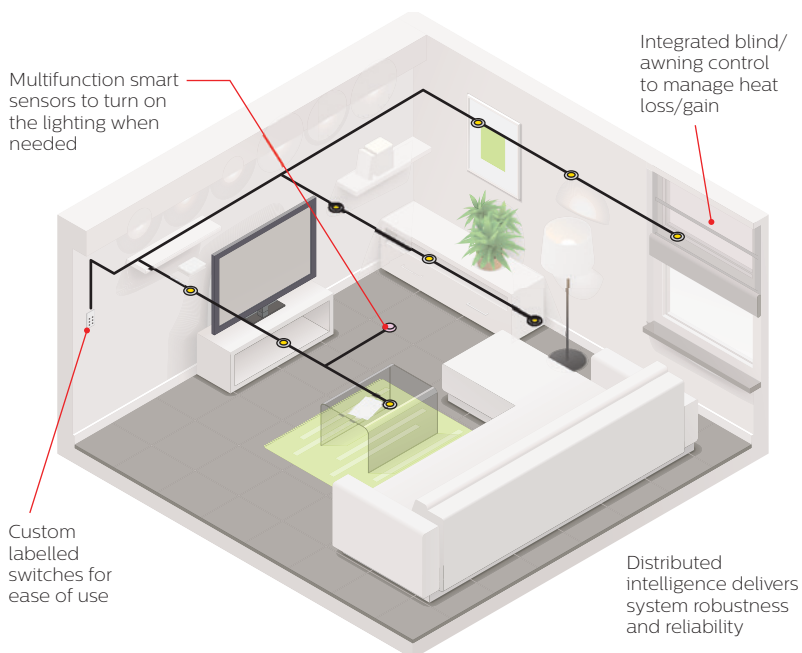
Typical layout

The Dynalite system includes control options for every type of lighting load, and dedicated hardware enables seamless integration with a wide range of third-party services. Moreover, the large selection of wall-switch finishes ensure that Dynalite's user interfaces are able to match the design intent of the home, with custom switch labelling for easy operation.

The Dynalite solution is able to achieve a number of sophisticated outcomes, such as a wake-up call that can be configured to a customer's specifications – including elements like the selection of lighting presets, the opening of blinds and the turning on of the television. Similarly, the system can be programmed for a slow fade-up of luminaires at sunset to seamlessly transition from daylight to the preferred evening lighting mood. Dynalite also gives the homeowner the option of remote access for monitoring and control, as well as sophisticated away-from-home occupancy mimicking.

Future-proof features

A typical Dynalite home system includes modular dimmers, modular wall switches, custom touchscreens and dedicated apps. Each device can easily be configured with the same software and independently replaced to accommodate control upgrades over time to suit subsequent functionality changes. This delivers the homeowner with an unprecedented ability to adapt the look and feel of the control solution over time to meet their evolving needs.

Multifunction smart sensors to turn on the lighting when needed

Integrated blind/awning control to manage heat loss/gain

Custom labelled switches for ease of use

Distributed intelligence delivers system robustness and reliability

Each controller has its own control modules matched to the load, to suit the vast majority of all lighting technologies. The Dynalite topology makes efficient use of both hardware and space in the distribution board, which minimizes the expense of installation and delivers more cost-competitive serviceability.

System outline

All elements of the Dynalite system – the controllers, the sensors and the user interfaces – are independently intelligent and interconnected via a single network. This ensures a virtually instantaneous response to all network control messages.

All home systems can be controlled from a single location, delivering added convenience when leaving the property or when going to bed. The solution includes dry-contact integration to third-party systems to update the home/away status, while sensors in hallways and garages provide automatic pathway lighting at night. Smart occupancy sensors can be enabled/disabled via a system timeclock or through light-level sensors, for flexible operation.

The Dynalite control solution has been designed for all elements – including a wide array of integration options – to seamlessly work together. Home comfort, convenience and energy efficiency have never been easier to achieve through a single control solution.

An open proprietary control protocol gives the system a dedicated lighting control platform, while allowing other products to easily be integrated to provide a full home system

Garage door
Integrating the garage allows the lighting to automatically turn on when the door is opened.

Swimming pool
Integrating the pool system allows you to monitor the current temperature and make adjustments remotely if required.

Outdoor lighting
Program your lights to automatically turn on at dusk or other times.

Security
Program lights to turn on or off when you're away, turn on when movement is detected, set your alarm remotely, or turn on outside lighting.

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