



PHILIPS

Office lighting

SpaceWise



Smarter lighting, brighter thinking

How wireless lighting controls can help to transform your workspace



Enjoy the flexibility, **love the workspace**

An amazing thing happens when you install controllable wireless lighting. Uninspiring municipal and private offices are transformed into vibrant spaces where people immediately feel more comfortable. And when they feel comfortable, that's when productivity flows.

An open-plan space, room-by-room, or an area divided into multi-purpose zones – wireless lighting controls give you the flexibility to set the right mood for the task at hand.

An inspiring meeting room to spur creativity and spark ideas. Or a space where you feel safe working alone after dark. Any lighting mood is possible in an instant – and all from a simple remote control.

Like changing your office layout and keeping things fresh? Not a problem. SpaceWise is as flexible as you need it to be. Installation is easy – with no need for expensive and complicated rewiring. Quickly adjust the settings and you're all set.

Save energy, protect your investment

Why pay for lighting you're not using? With controllable wireless lighting you don't have to. Smart sensors 'talk' to each other and detect when someone is in the space. Plus daylight-dependant dimming automatically adjusts the lighting according to the daylight available – saving you money while providing a constant light level.

The days of wasting energy after-hours are over too. Background lighting gives people working late that feeling of security – despite luminaires operating at a fraction of their full output.

And don't worry about wasting your money if you move office. Wireless lighting is portable. Where you go, it goes.

Welcome to the modern office. Welcome to the world of flexible wireless lighting controls.



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Services delivered the
right way, your way

Smarter office lighting for **municipal and private buildings**

Installing a new lighting system used to be a major expense and a lot of hassle. The complicated designs, the expensive commissioning, all the material costs. It could feel like you were running a mini building project.



Planteams.ch AG, Kaegiswil, Switzerland



Town Hall, The Netherlands

SpaceWise benefits at a glance

- Save money and hassle – ideal for offices, where adding new wires is impossible or too expensive
- Protect your investment – the portable system is ideal for rented offices: where you go, it goes
- Enjoy flexibility – configure your lighting for an open-plan space, or room-by-room
- Generate savings – automatic dimming slashes electricity costs: you only pay for lighting when it's being used
- Cut costs – create a more cost-effective data network via a cable-less lighting platform
- Improve sustainability – lighting activates only when and where it's needed
- Improve comfort – users can adjust lighting settings to support the required task activities

But things have changed. Technology has evolved. Today's wireless lighting control systems are affordable to small and large businesses alike. And the great news is, they couldn't be easier to install – no matter what lighting system you're using right now.

Quick and easy set-up

SpaceWise is all about embedded sensors and wireless controls. No need for extra wiring between luminaires or to the wireless switches.

And forget about expensive commissioning. Dimming settings for typical office spaces are pre-programmed. Just some quick fine-tuning and you're all set.

“

Believe me, architects are not easily satisfied. However, we are convinced by the performance, energy efficiency and the really nice design. **We now have light all around us in our new office.**”

Hampi Lussi,
CEO Planteams.ch AG

Simple to install, **easy to use**

With SpaceWise, all the hard work is done for you. No re-circuiting or new control wiring is needed. The plug-and-play system has you up and running in no time – expert Philips engineers have pre-programmed the optimum settings for typical offices: open-plan, private rooms and meeting rooms.



Tomra, Brunn am Gebirge, Austria



Tomra, Brunn am Gebirge, Austria

Installation at glance

- Plug-and-play set-up
- Stand-alone system – no network, computer or light-meter needed
- Pre-programmed settings for typical office configurations – open-plan, private rooms and meeting rooms
- Automated dimming activated after installation
- Groups created and wireless switches connected via remote control
- Ceiling luminaires can connect with free floor-standing luminaires in the same lighting zone

Once the system is connected, all it takes is some quick fine-tuning. Just choose the most appropriate room mode for the space, and the dimming settings and wireless, battery-free, kinetic switches kick in automatically.

Occupants won't need any training because SpaceWise is so easy to use – everything is controlled from a simple handheld remote.

As for the energy savings, they start as soon as you activate the system. The dimming technology responds to the occupancy sensors and daylight available. It's all done automatically.



Save energy

without compromise

In the past, saving energy meant sacrificing light or using unwanted switching. But not anymore.



Greenpeace, the Netherlands

Philips SpaceWise with LED luminaires delivers what building managers crave – long-term, scalable energy savings without visual compromise. How? By combining wattage reduction with smart dimming algorithms.

SpaceWise also saves energy by giving you the flexibility to create 'Smart zones'. Light your whole office, or just specific areas or rooms – you're in total control.

How SpaceWise works in open-plan...

Luminaires are grouped into standalone networks of up to 50 luminaires. Occupants simply fine-tune the light levels to their personal preferences. 500 lux is the typical light level required, but you may prefer to go as low as 300 lux or even higher than 500 lux. When occupants are away from their workstations, the light dims automatically to the background level.

You can also create a defined zone within the office. The lights dim or brighten individually, based on each luminaire's occupancy and daylight sensors.

...and private offices

Embedded controls in each luminaire combine presence detection and daylight-dependent dimming to save energy. Simply use the SpaceWise remote to connect the wireless wall switch or scene controller to the luminaire. The wireless switch supports personal dimming preferences.

In meeting rooms, for example, different scenes are available to accommodate presentations, pre-set dim levels, or daylight-dependent dimming.

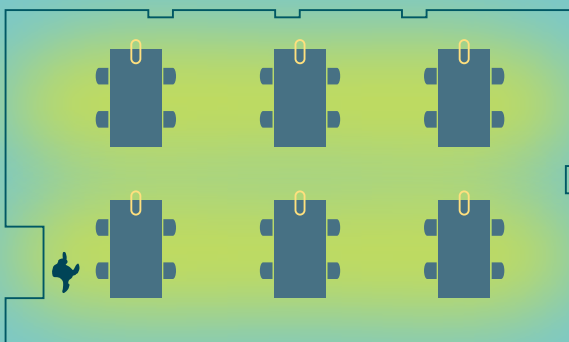
Open-plan: one room, multiple zones

In open-plan environments, SpaceWise protects the aesthetic of the space by maintaining a background light level. Individual luminaires aren't turned off until the entire wireless zone is unoccupied. It is possible to create zones of luminaires which react simultaneously if one of the sensors detects presence.

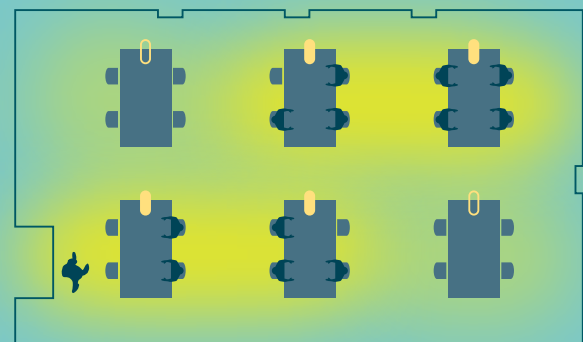
It's only the occupied workstations that are lit fully, so energy isn't wasted on full-output lighting when people are just passing through the space.

And the really clever thing about it? The background lighting dims to around 20% of its full output, but the visual appearance is so subtle, it's barely noticeable.

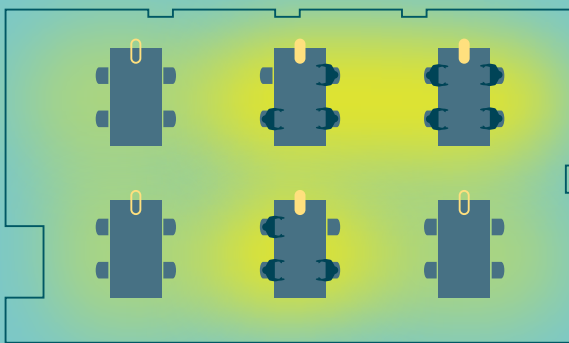
When the first occupant enters, the lighting zone brightens up gently to a background level.



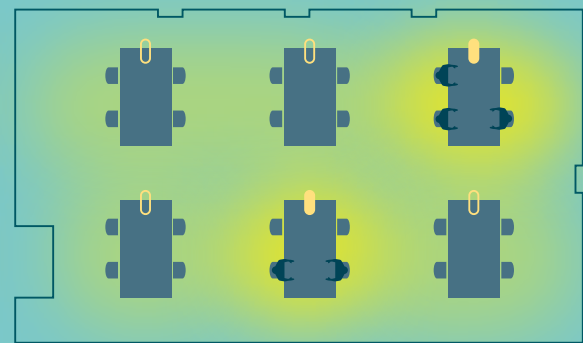
As each occupant arrives at their workstation, luminaires in the immediate area brighten up to full illumination.



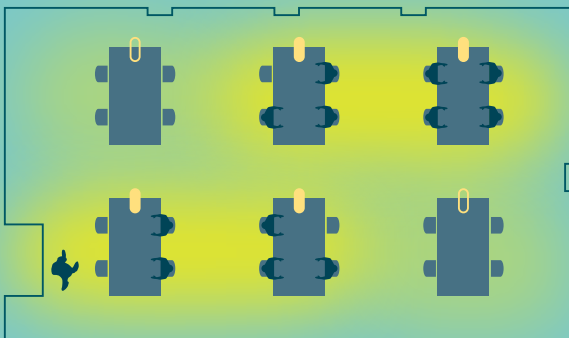
When people leave their workstations the luminaires gently dim to background level.



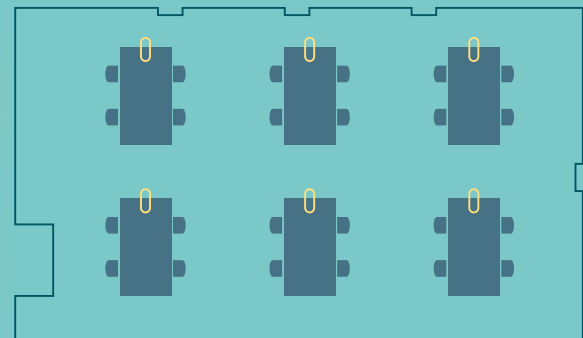
When people leave for meetings or lunch significant energy is saved.



Daylight-dependent dimming occurs automatically, saving even more energy throughout the day.



The lighting zone turns off after the last person leaves.



Open plan: **big savings,** zero compromise

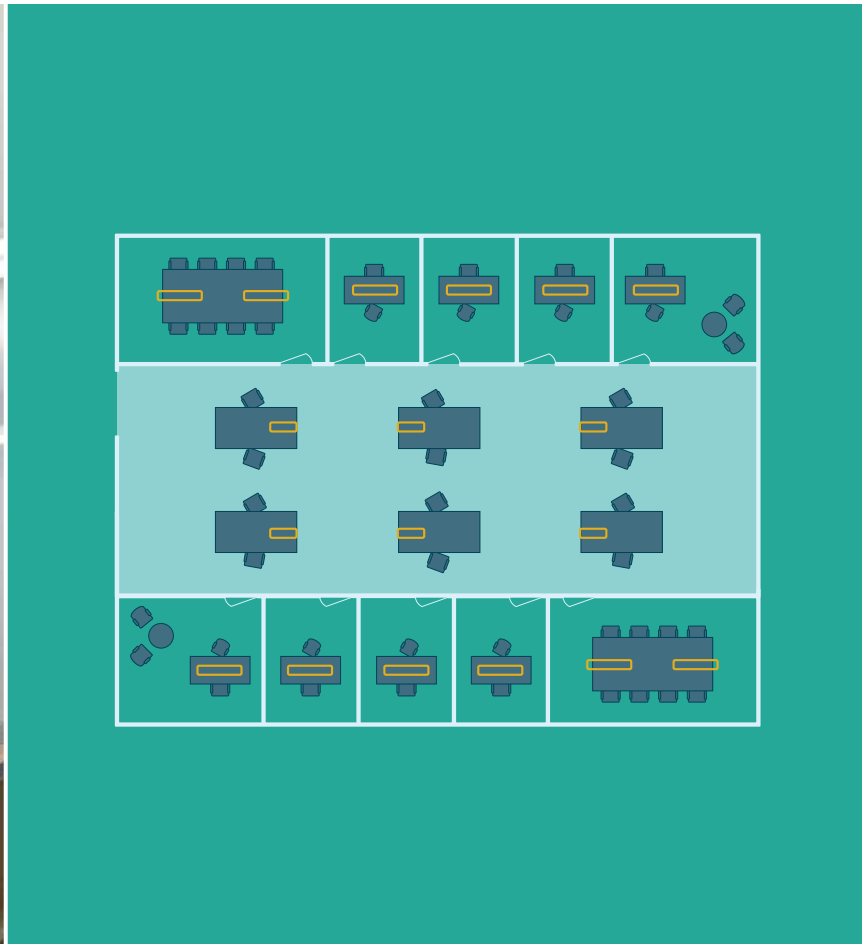
The traditional way to save energy in open-plan spaces was to reduce wattage. But in retrofit projects, this often means lighting falls below recommended levels – resulting in a dreary, uninspiring environment for occupants.



Greenpeace, the Netherlands



Planteams.ch AG, Kaegiswil, Switzerland



SpaceWise is different. Smart luminaires deliver full-light output at occupied workstations, and a lower background light level at unoccupied workstations.

The aesthetic of the space is maintained with a background light level – luminaires aren't turned off until the entire zone is unoccupied.

And there's no need to provide a controls design and intent with wired zones. The controls are embedded in each luminaire.

After installation, use the SpaceWise remote to create your wireless zones, then choose the open-plan room mode. It's as simple as that.

For open-plan offices, we recommend large groups of 30-50 luminaires. As long as presence is detected within the group, the luminaires remain at the background light level in non-occupied areas.

Step-by-step: how the system works

- When the first occupant enters, the lighting group brightens gently to a background level
- As each occupant arrives at their workstation, luminaires in the immediate area brighten to full illumination, while the remaining luminaires remain at background level
- Daylight-dependent dimming then begins automatically
- When occupants leave their workstations, after 15 minutes the luminaires dim gently to the background level
- The lighting group turns off only when no-one has been in the entire group area for 15 minutes

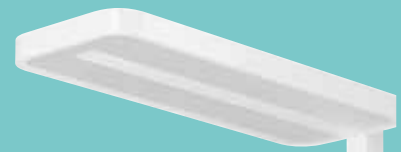
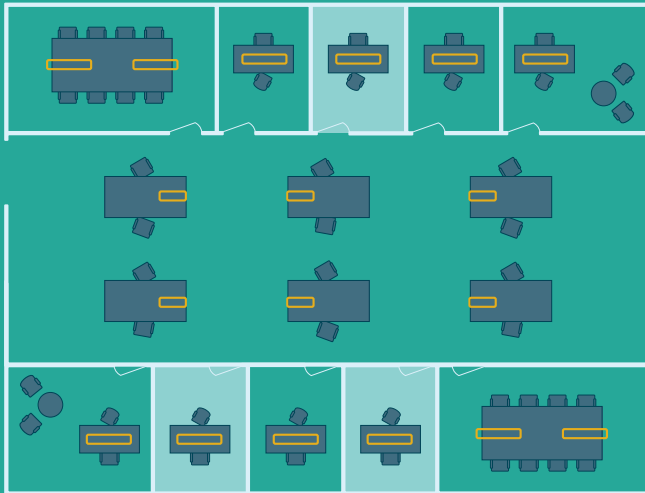
Private office:

custom control

Occupancy sensing and daylight-dependent dimming come as standard with SpaceWise – they're embedded in the luminaire. Just add a wireless switch and you've got total control of your lighting.



Tomra, Brunn am Gebirge, Austria



In addition to the wireless switch the SmartBalance free floor standing luminaires also feature an integrated switch panel with buttons for direct and indirect light adjustment.



Design and application

In a private office, you can override the sensor-determined light levels to enjoy your preferred settings – just link the wireless switch to the group of luminaires.

The system will remember this preference during short vacancy periods, and revert to the default light output after a long vacancy period.

And if you prefer luminaires to react simultaneously to presence detection, you just create zones within the group.

System behavior at a glance:

- The occupant-chosen light levels can be activated with a simple press-and-hold on the wireless switch
- The system remembers the occupant-chosen light levels for 15 minutes after vacancy, so when the occupant re-enters the space, the previous manual dimming light level is restored

- Daylight-dependent dimming occurs automatically, except when the occupant overrides it manually

Manual On/Auto Off settings include:

- When the switch is turned on, lights quickly brighten to the task level
- When the space is unoccupied for 15 minutes, the lights dim slowly to off

Auto On/Auto Off settings include:

- When an occupant enters the room, the lights turn on to the task level
- When the space is unoccupied for 15 minutes, the lights slowly dim to the background level
- Lights remain at the background level for 15 minutes before turning off

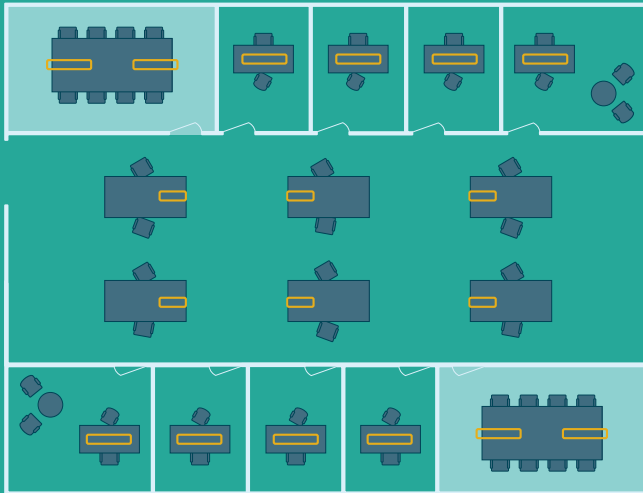
Set the scene

in meeting rooms

Lighting must be flexible in meeting and conference rooms. A trainer will usually favor a well-lit space. Someone delivering an audio-visual presentation may prefer lower lighting.



Audi offices



Cas Sombroek, the Netherlands

SpaceWise gives you all the flexibility you need, and provides automatic daylight-dependent dimming and occupancy sensing within each luminaire.

Design and application

When using SpaceWise in a meeting room, you just use the wireless scene selector to choose automated dimming settings or user-defined pre-sets.

System behavior at a glance:

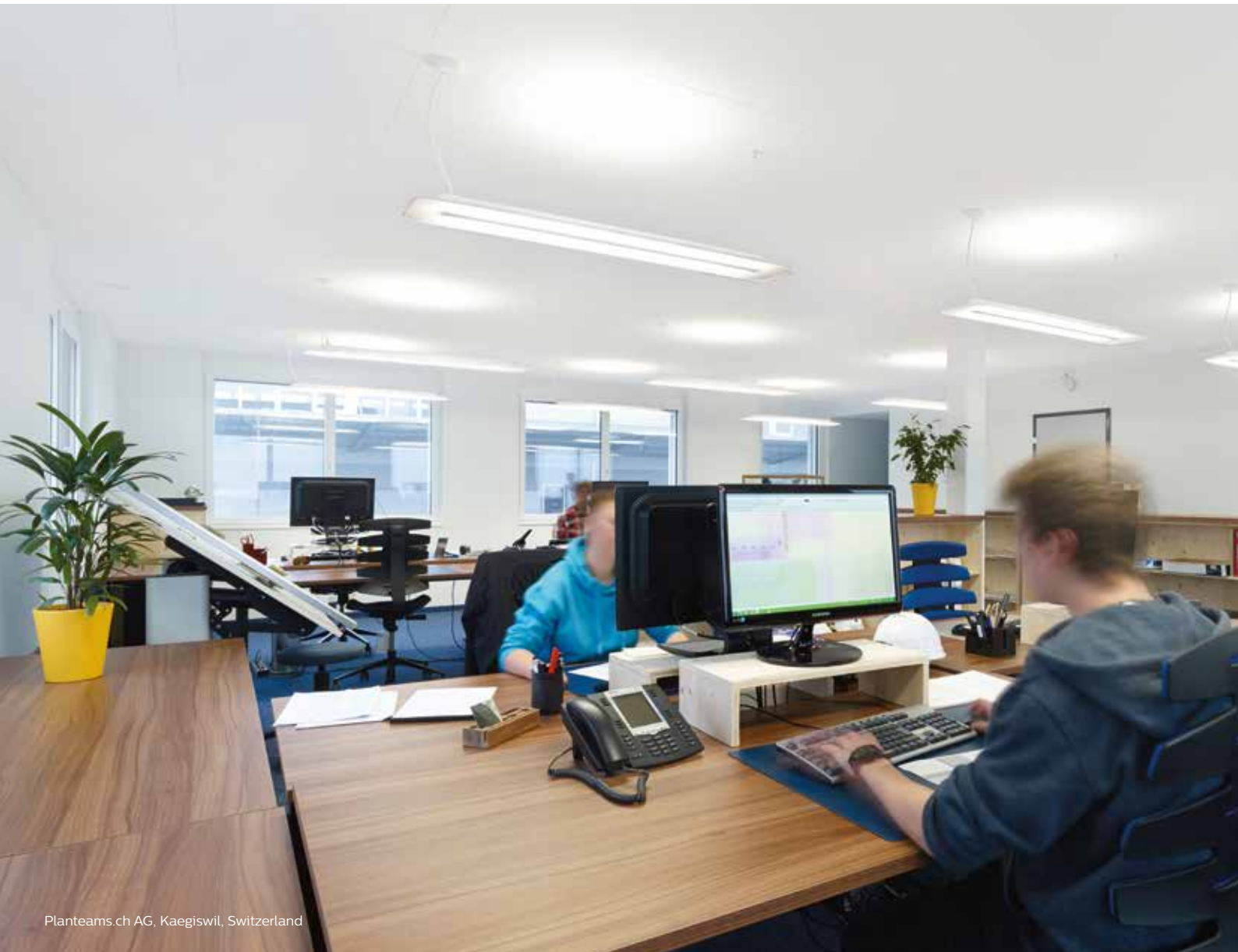
- The wireless scene selector has four presets:
 - Button 1: Automated dimming based on occupancy and daylight
 - Button 2: 50% default light output*
 - Button 3: 25% default light output*
 - Button 4: Off

- Daylight-dependent dimming occurs automatically, except when an occupant chooses a pre-set light level
- **Manual On/Auto Off settings include:**
 - When the switch is turned on, lights quickly brighten to the task level
 - When the space is unoccupied for 15 minutes, the lights dim slowly to off
- **Auto On/Auto Off settings include:**
 - When an occupant enters the room, the lights turn on to the task level
 - When the space is unoccupied for 15 minutes, the lights slowly dim to the background level
 - Lights remain at the background level for 15 minutes before turning off

* Buttons 2 and 3 can be set to different outputs during configuration

SpaceWise family

Whatever your office's configuration, the SpaceWise system offers sustainable, long-lifetime high quality LED lighting, whilst reducing energy and carbon impact and simultaneously enhancing the appeal of your office space.



Planteams.ch AG, Kaegiswil, Switzerland

SpaceWise remote control and sensors

The SpaceWise remote control runs the SpaceWise system. In an open-plan space, luminaires are grouped into standalone networks of up to 50 luminaires. The remote initiates the dimming settings and operation of the wireless, battery free, kinetic switches.

You also use the remote to choose the most appropriate room mode for the space, set the preferred light levels for each defined group, and connect the wireless wall switch or scene controller to the luminaire.

Features

- Up to ten OccuSwitch wireless sensors can be added to a group of SpaceWise luminaires
- Sensors have a 10 year hassle free battery life
- No sensor wiring required – wireless controls eliminate the need to open the ceiling to install the sensor



Remote control



Switch
Wall based
UID8460



Switch
Wall based
UID8450



OccuSwitch wireless
LRM1763/10

SmartBalance luminaires

The SmartBalance luminaires pleasing curves and award winning minimal design can add appeal to any space. As a suspended option, it's as unobtrusive as it needs to be; fitting seamlessly with your interior architecture. As a free floor standing option, it lights up two desks with one luminaire, thanks to its compact design.



SmartBalance suspended

- Award-winning minimalist design
- Soft curves
- Adds visual appeal to any office



SmartBalance free floor standing

- Illuminates two desks with one luminaire
- Compact design – blends into its surroundings

Extra specs, **extra benefits**

SpaceWise comes with a range of options to meet the exact requirements of your office.



Plantteams.ch AG, Kaegiswil, Switzerland

“

The new control system provides us with more precise zoning so that only occupied areas are fully lit while other luminaires in the network stay at background level. The dimming functionality also enables us to adjust lighting levels within the zones to suit **the preferences of the people working in those spaces.**”

Les Smith, EMEA Critical Facilities Engineering Manager Citi, Canary Wharf, London



Citi, London, UK

Deliver room-based control, comply with energy codes

Most energy codes for new construction and major renovation projects require switches to have manual-on / auto-off functionality. Some of the more recent codes also require daylight-dependent dimming for certain spaces.

SpaceWise meets these requirements – occupancy sensing and daylight-dependent dimming are embedded in the luminaire. The SpaceWise compatible wireless switches let you configure the system according to the manual-on / auto-off requirements, while also providing dimming override capabilities.

For retrofit projects, the system lets you ‘switch on’ manually instead of automatically, using a wall-based switch that communicates wirelessly to the luminaires.

Avoid false turn-off

Some office areas have unusual barriers between the sensors and workstations, which can prevent the luminaire sensor from detecting all the workstations. But with an OccuSwitch Wireless Sensor, you can extend the occupancy coverage area of the SpaceWise luminaires to detect the entire workspace area.

Note: The external ceiling sensor is not connected to any load, so it won't regulate the lights between the task level and the background level. It will only prevent the false shut-off of a group of lights.

Turn on the lights before entering the space

Need to illuminate a space before people enter? Not a problem. External ceiling sensors can be installed at various entry points to detect occupants as they arrive. This way, the space is pre-lit and you avoid dark walk-ways.

SpaceWise uses

Zigbee protocol

ZigBee is an industry standardized wireless mesh network. ZigBee supports a large number of nodes and devices and is used all over the world as a very reliable and secure communication protocol. ZigBee is a protocol for low-data-rate wireless connectivity with fixed, portable, and moving devices.



Generali Offices, Milan, Italy



Privacy aware

ZigBee protects the privacy of network users by preventing unauthorized access to the network



Authentication

The SpaceWise system is secured by a specific network key that is different from other ZigBee networks



Operational security

ZigBee controls access to the network's authentication and encryption, protecting all connected systems and devices

In the lighting world, ZigBee gives you total control of your LED lighting, switches and sensors. The highly secure ZigBee protocol is the backbone of Philips' wireless networked lighting systems protecting all devices on the lighting network.

Services delivered the right way, **your way**

Lighting is in our DNA. We've been designing and delivering lighting installations for more than 120 years, so one thing you can bank on is peace of mind. How do we work? We're big on flexibility. We'll package our support around exactly what you need.





Professional services: pre installation

We offer help at the planning stage through our unique professional services approach – by doing an initial audit and recommending a design solution to ensure best outcomes.

Audit

On-site data collection and data analysis

We make recommendations for improving performance, with a clear base line, and ensure customers receive the most up-to-date information on the lighting installation

- Lead
- Scope
- Data collection
- Data analysis

Consulting

Solution design arising out of data analysis

We come up with most cost-effective design, incorporating data from the field, and implement the design according to customer's precise specifications

- Solution design
- Business case
- Solution implementation
- Sign off



Lifecycle services: post installation

And post installation we offer a menu of options to choose from, with three packages, from Essential to Premium and Premium+ depending on your needs.

Essential Package

Protecting your investment

- Helpdesk and service ticketing
- Preventive maintenance via field support
- Corrective maintenance via remote call support
- Spare parts and additional services at discounted prices

Premium Package

Ensuring hassle-free and budgeted operation

- Everything in the Essential Package
- Comprehensive maintenance via trained service engineers for on-site service activities
- Spare-part kit and replacement for failures

Premium+ Package

Optimize performance and meet your business objectives

- Everything in the Premium Package
- Documentation and project information in a customer portal
- Ongoing user training

