



PHILIPS

Lighting Controls

SpaceWise

Design guide

Wireless lighting control solutions from
Philips for industrial applications

Lighting the way to industrial energy savings

Today's industrial facilities are tasked with improving productivity and efficiency while reducing costs. At the same time, the lighting required to facilitate the site's continuous operation can account for a significant portion of overall operating expenses. The combination of SpaceWise Technology with energy efficient LED fixture can help you reduce these operating expenses by delivering up to **75% energy savings***.

SpaceWise technology adds integrated occupancy and daylight harvesting sensors to each LED luminaire. This allows industrial facilities to use light only where and when it's needed, while still providing the uniform

illumination that occupants need to efficiently complete tasks while maintaining a sense of security. The system is configured wirelessly, using a remote control, with minimum installer input compared to networked solutions.

* Savings from a 24,000 lumen FBX fixture with SpaceWise Technology over a 400W conventional Metal Halide fixture.

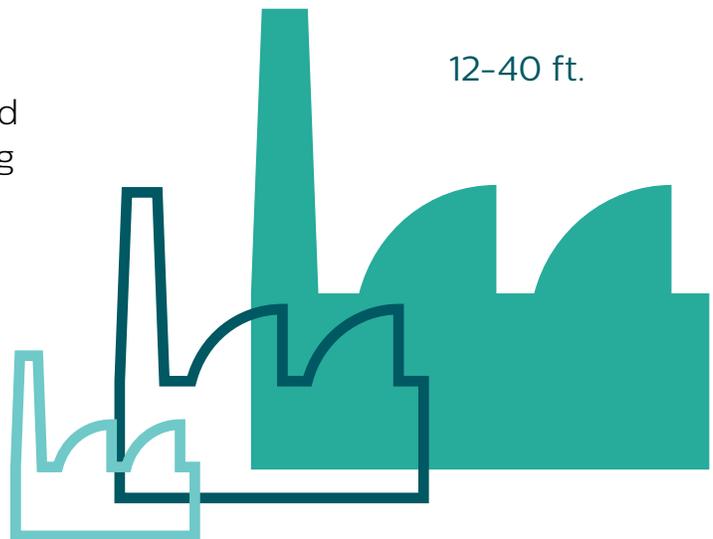






LED luminaires with SpaceWise technology are suitable for retrofit projects and new construction with ceilings from 12 to 40 feet high, and are specified as one convenient package.

Up to 50 luminaires may be wirelessly grouped for flexibility in a wide variety of industrial spaces without the time and expense associated with altering lighting circuits or using additional wiring.





In operation, the luminaires provide light where and when it's needed because of these highly sensitive occupancy sensors that speak "virtually" through the system. This helps to provide heightened energy savings without compromising staff productivity or their sense of security.



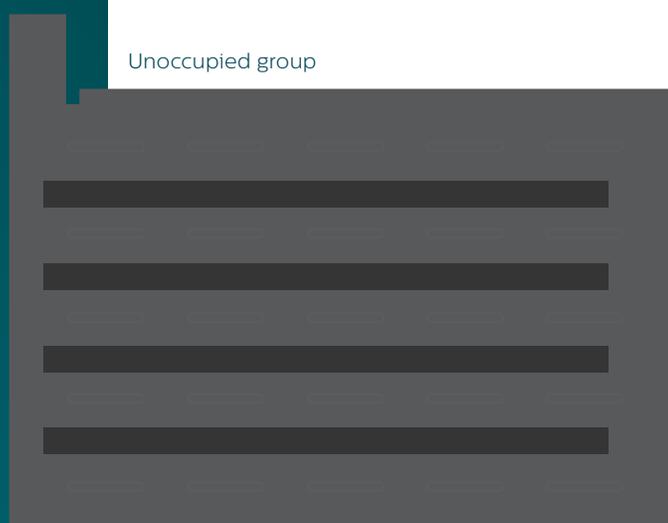
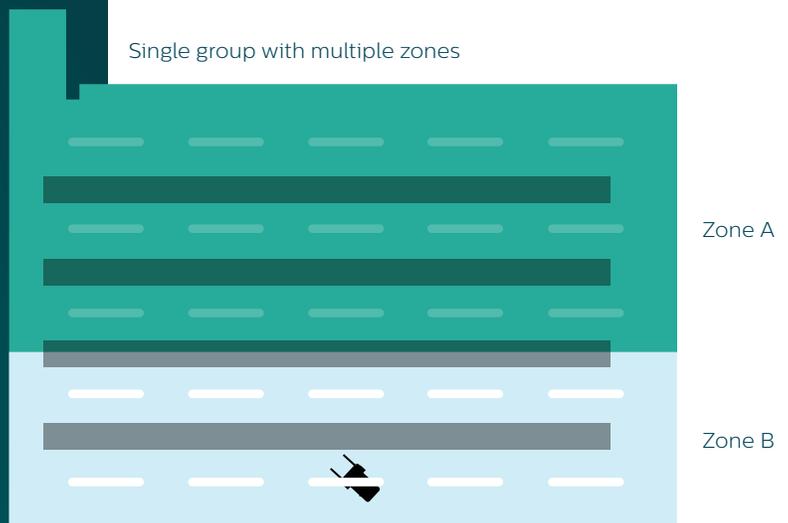
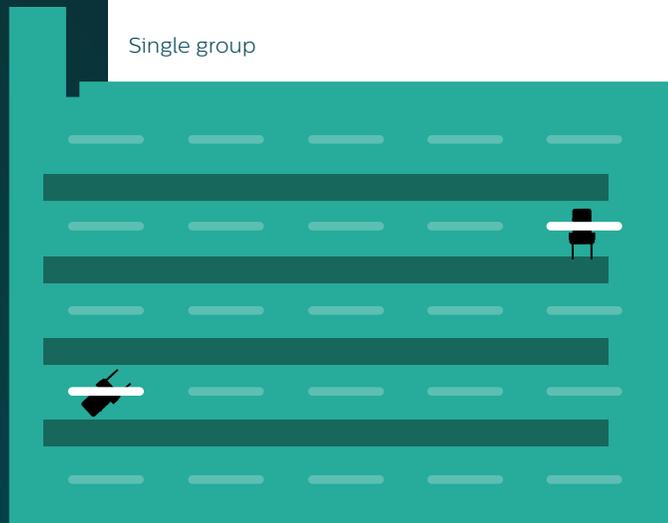
Luminaires may be operated as a single group or divided into multiple groups to suit different space needs and activities.

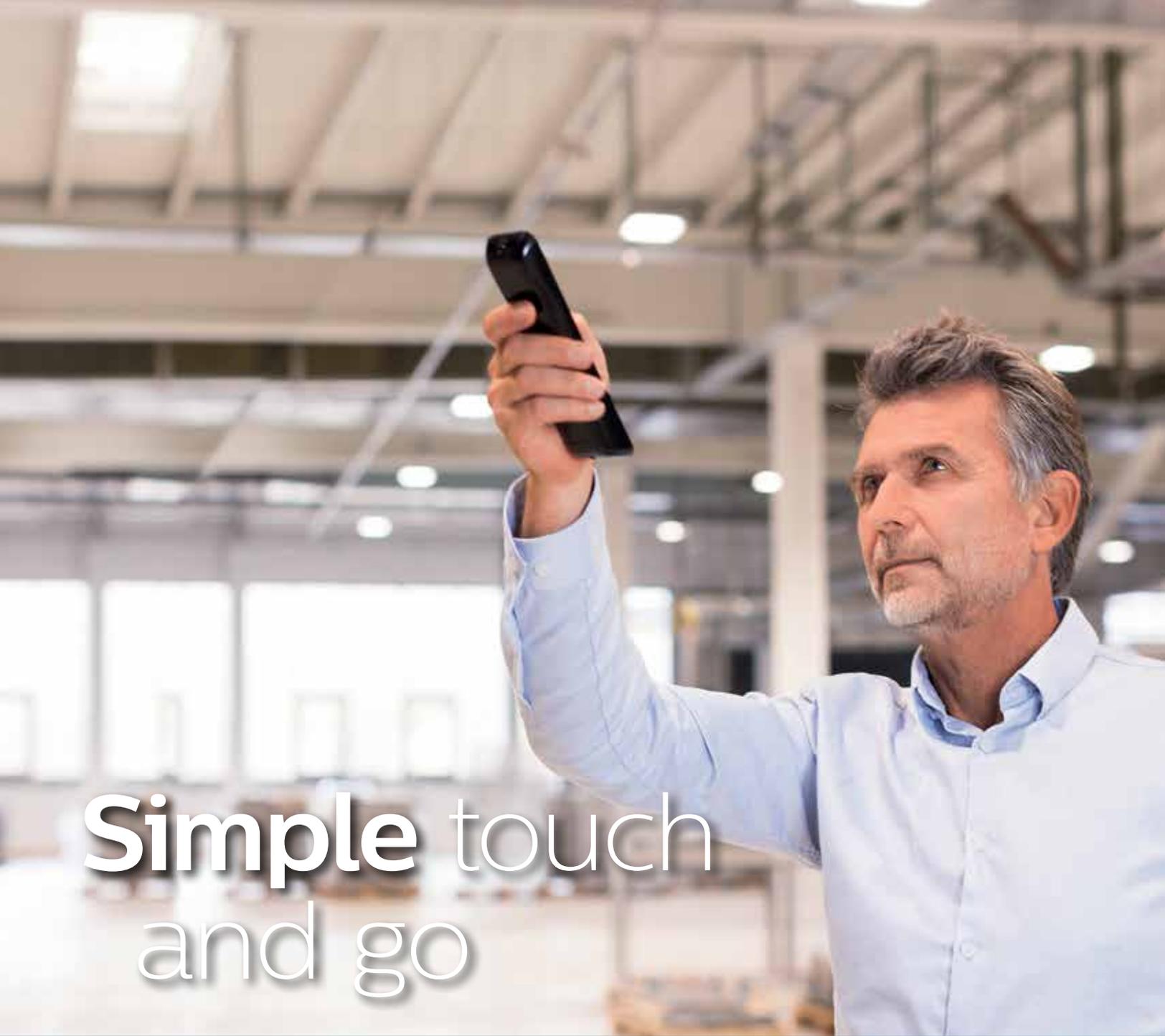
Within the group, as each occupant arrives at their workstation, luminaires in the immediate area brighten up to full illumination. While unoccupied workstations stay lit at a background light level.

For optimal efficiency, it is recommended to create large luminaire groups to maintain uniform light across the area or spanning aisles in a warehouse.

Additionally, luminaire groups may incorporate zones, where all luminaires in the defined zone behave identically on detecting motion.

The lighting group turns off only when the entire group has been unoccupied for a specified time.





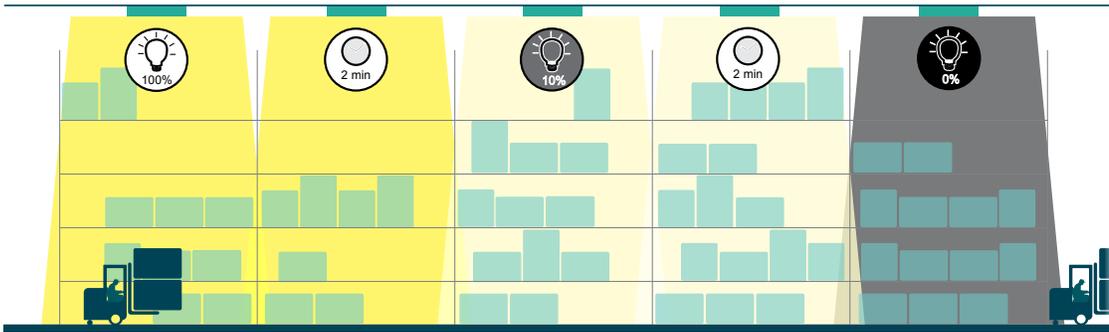
Simple touch and go

SpaceWise technology is quickly and easily commissioned by the installer with a handheld remote control so that facility operations remain uninterrupted and installation labor costs are minimized.

Commissioning includes defining luminaire groups and zones, activating any user specific sensor settings, and selecting one of the following pre-programmed application modes best suited to your needs. In all modes, daylight harvesting occurs automatically.

mode 6: Warehouse

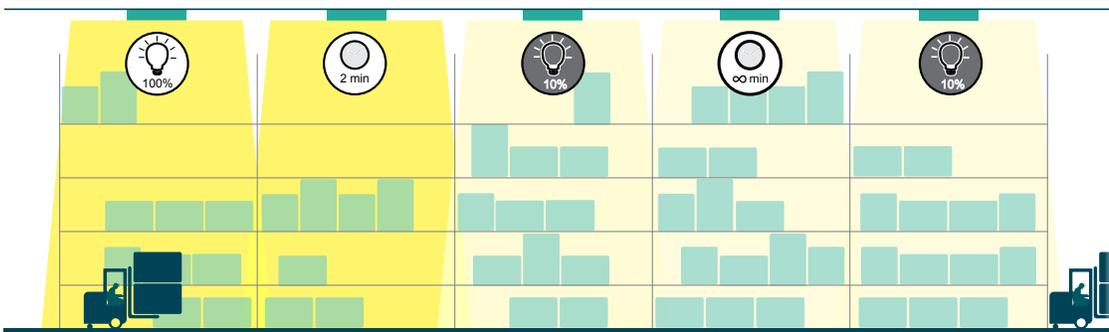
- Luminaires in the group that detect motion brighten to 100%, and dim to a 10% background level two minutes after motion ceases.
- Luminaires in the group that do not detect motion remain dimmed at a 10% background level.
- The entire luminaire group will turn off if no further motion is detected for an additional two minutes.



Suitable for warehouse applications that have low occupancy movements and where, on a given day, most activities are concentrated to a limited area.

mode 8: Comfort Warehouse

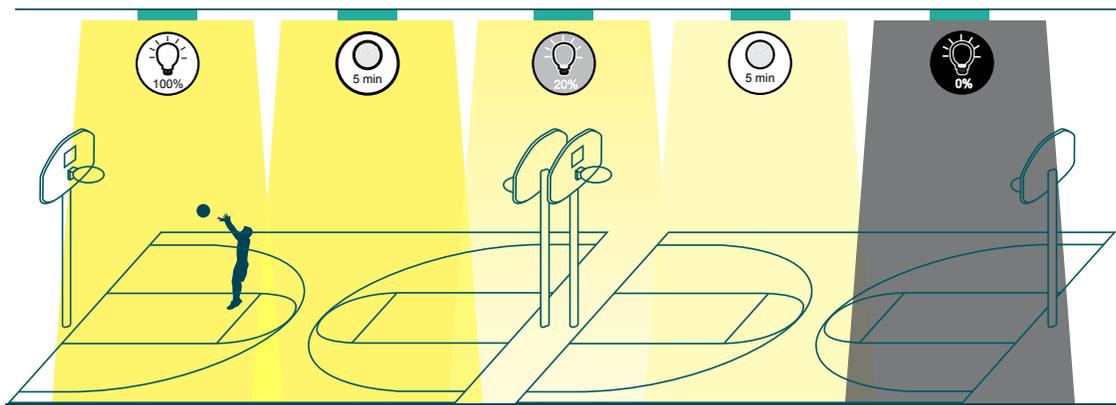
- Luminaires in the group that detect motion brighten to 100%, and dim to a 10% background level two minutes after motion ceases.
- Luminaires in the group that do not detect motion remain dimmed at a 10% background level.
- The entire luminaire group remains at a 10% background level until motion is detected again.



This mode is relevant for warehouse environments that are constantly occupied throughout the day or for spaces that require lights to stay at a dimmed level instead of shutting off when unoccupied.

mode 7: Gymnasium

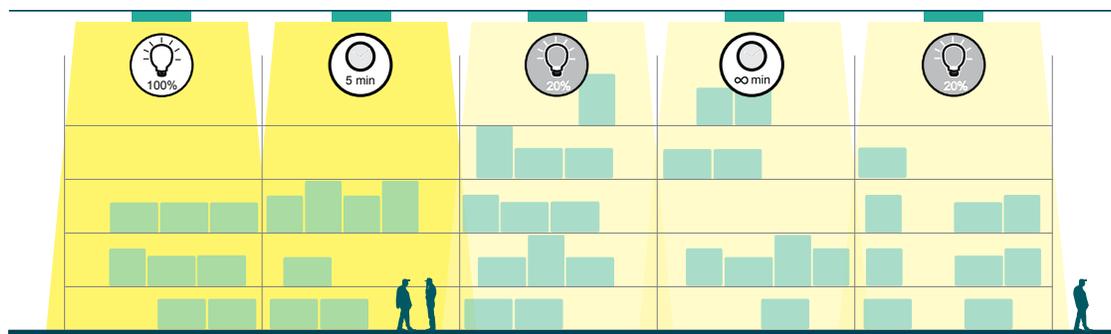
- Luminaires, or entire defined zones, that detect motion brighten to 100%, and dim to a 20% background level five minutes after motion ceases.
- Luminaires, or entire defined zones, that do not detect motion remain dimmed at a 20% background level.
- The entire luminaire group will turn off if no further motion is detected for an additional five minutes.



Usually, gymnasiums have multiple courts next to each other and not all the courts tend to be occupied at the same time. This energy waste can be minimized with the help of SpaceWise Technology.

mode 9: Manufacturing

- Luminaires that detect motion brighten to 100%, and dim to a 20% background level five minutes after motion ceases.
- Luminaires that do not detect motion remain dimmed at a 20% background level.
- The entire luminaire group remains at a 20% background level until motion is detected again



Traditionally, some spaces in a manufacturing facility are configured to stay on all the time, wasting a significant amount of energy. With SpaceWise Technology it is possible to reduce this energy waste by dimming the lights to a background level during unoccupied periods.



Control and illuminate the path to egress

SpaceWise technology may be integrated with emergency luminaires to provide appropriate light output during emergencies while still reducing energy use during normal conditions. A built-in battery pack can be incorporated to save energy, or alternatively, the 'path of egress' setting can be activated for luminaires on an emergency generator circuit to disable the luminaire's automatic shutoff during emergencies. It is not necessary to create a separate group of luminaires on the emergency circuit, however, care should be taken to identify those on the circuit and activate their 'path of egress' setting.

- Luminaires that detect motion brighten to 100%, and dim to the appropriate background level after motion ceases for the mode-specific period of time.
- If battery pack is specified, the lights will turn off after the mode-specific period of time.
- Luminaires with the activated 'path of egress' setting will not automatically turn off and will stay at the background level while the remaining luminaire group will behave per the specified mode.

Tools and Tech

SpaceWise

The SpaceWise Remote is necessary to configure the SpaceWise System. The remote is used to group up to 50 luminaires together and to activate the automated dimming behaviors by choosing the proper application mode within the space. Each button on the remote is labeled for quick task identification to avoid confusion when configuring the luminaires.

Luminaires with SpaceWise technology solutions are simple to install.

- Plug and play with easy grouping
- Stand alone system—no network, computer, or light meter required



SpaceWise Remote
Ordering code: SWZ-REMOTE
12NC: 912400395923

Note: SpaceWise remote control must be purchased separately.

Take the next step

See how Philips SpaceWise controls and Philips Day-Brite FBX LED luminaires can provide a complete solution for your area lighting needs. Contact your local Philips Sales Representative or visit philips.com/spacewise or philips.com/luminaires more information or to schedule a personalized demonstration.



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