PHILIPS

EasyAir SNO110

Introducing EasyAir SNO110

Bluetooth configurable GPS controllerfor future-proof outdoor luminaires

For today, for tomorrow

Outdoor

Making cities **more livable with controllable lighting**

Lighting is more than just illumination. It can make a city's streets, parcs and squares feel safer and more welcoming, enhance people's moods and adapt to their personal preferences. To do all that, it needs to harness new technologies and eventually work seamlessly with the city's lighting infrastructure.

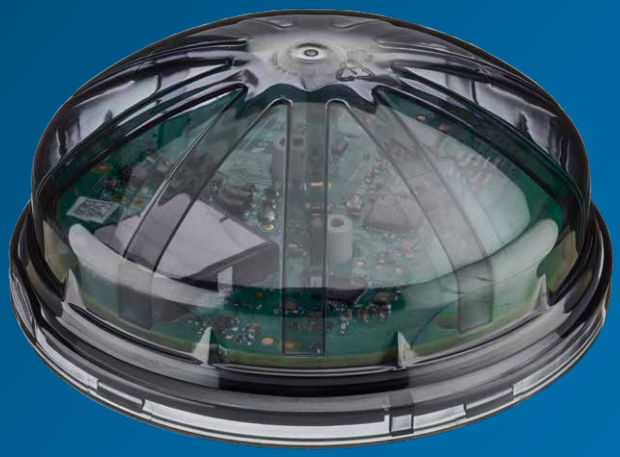
In the past, the main barriers for smart lighting were the complexity and lack of compatibility between different systems. With the introduction of Philips SR technology, which is now fully accepted and standardized via Digital Illumination Interface Association (DiiA) and the Zhaga-specified connector, that's no longer a problem.

The Zhaga-specified connector (book-18) and the specific DALI-2 additions, offers OEMs the security to build simple, future-proof luminaires. This will enable OEMs and their partners to accelerate smart innovations and develop their own connected solutions based on a standardized framework. Creating smarter cities with the latest technologies has never been easier.

The new EasyAir SNO is, of course, fully compliant with these new standards. It comes with an intuitive app that can be installed on a smart device to guarantee a simple configuration method. For OEMs and users, the EasyAir SNO system is the ideal stepping stone for a roadmap to a complete City Management System. A true plug and play solution that covers the majority of your current customers' needs.

EasyAir SNO system

- Basic control for most applications
- Settings easy to change - including groups
- Very accurate (automatic location/time)
- Fits on SR connector for future-proof luminaires



One universal solution for controllable, future-proof luminaires

Over the years, different control methods for outdoor luminaires have been introduced. The EasyAir SNO is designed with the many years' experience Philips has in outdoor lighting. This device covers the majority of commonly-used control methods such as group dimming via LineSwitch, DynaDimmer, and dusk/dawn switching by photocell. The EasyAir SNO has improved on all these methods and combined them into one universal solution that is suitable for the new future-proof SR luminaires.

The integrated GPS receiver in the EasyAir automatically detects the geographical position and local time of the luminaire. With this information and smart astronomic algorithms, the device is able to precisely calculate the sunset/sunrise at any location around the globe. Because the GPS signal also contains the Coordinated Universal Time (UTC), the timing is therefore always identical to the time on our watches.

Let's compare the old methods with this new one:

Photocell, when poles are connected on a combined grid, the local light level is used to switch luminaires on and off at sunrise and sunset. However, the light level on the photocell can be influenced by shade and dirt, which will result in a "popcorn" effect over the installation.

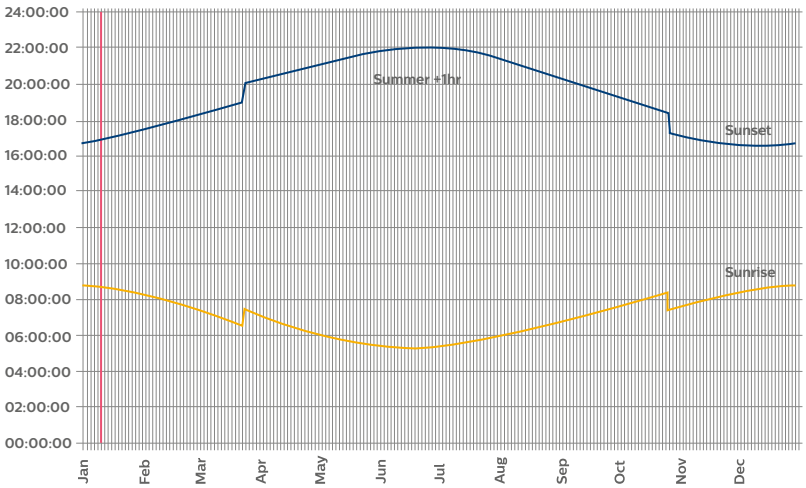
Unlike photocells, the EasyAir SNO110 nodes are synchronized by GPS satellites and dusk/dawn switching over the year will not be influenced by shade or lifetime effects. This eliminates the "popcorn" effect completely and poles controlled by EasyAir behave simultaneously as one group. The configurable ramp-up/fade down time of the EasyAir also enables smoother brightening.

Group dimming via LineSwitch, or StepDim via a pilot line to dim the light, is limited to one dim level and the pilot line must be controlled by a sensor or timer. This method is often used to create an accurate dimming scheme with the option to centrally modify the timing.
If LineSwitch is combined with part-night lighting (where lights are switched off during a part of the night), an additional circuit must be installed.

The benefit of group control via the EasyAir SNO is that multiple steps and dimming levels can be configured easily and the timing will be very accurate and synchronized. There is also no limit on group size. Part-night lighting can also be configured as a simple step without any hardware changes.

DynaDimmer, for correct timing the integrated DynaDimmer in the driver must be configured to the exact location. This is because DynaDimmer is controlled by the sunrise/sunset cycle and the Sun time varies compared to Clock time over a time zone. For example, in Europe, the Sun travels about 1500 km per hour. In the east of France, that means sunrise is 40 minutes earlier than in the west. This needs to be corrected via the midnight shift (DynaDimmer setting). In addition, the daylight saving time (DST) needs to be corrected, and for time-critical applications the analemma needs to be taken into account. In practice, any inaccuracy in timing is accepted by end users.

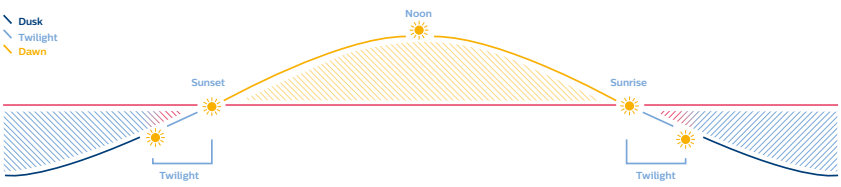
All this has now been simplified by the EasyAir SNO. Thanks to smart technology, no commissioning is needed, the device automatically determines the location and time of the light pole. The only configuration that is required is the setting for the application, the installer doesn't need to know anything else.



EasyAir calculates **Swich-on/ Switch-off** time via GPS

EasyAir includes **Daylight Saving Time via** Timezone

EasyAir timing is **accurate over all time zones**



EasyAir can be tuned in **Twilight zone** (Sun elevation)

An easy, intuitive app

The intuitive app covers practically all applications and it is easy to combine even more. The app can continue the central dusk/dawn switching, but the installer can also decide to start using the dusk/dawn switching so that pole configuration can be done during the daytime. Group of luminaires can also be grouped together via one or multiple dimming profiles.

The EasyAir app is designed with an intuitive user interface that makes changing light intensity and dimming levels easier than ever before. Light levels can be fine-tuned from below the pole using just a smartphone, with secure and easy connection via Bluetooth to the SNO110 outdoor module on the luminaire.

With a radius of 60 meters, the EasyAir app can be used to configure individual poles or synchronize settings for entire groups. And because configuration is automatic according to the geo-location of the pole, light levels, dimming schemes and part-night switching are extremely accurate. What's more, because luminaires are optimized locally, the level of light is only brightest when and where it's needed, saving energy and reducing running costs.

The possibilities are endless. The only limitation is the creativity of your customer.

Quality that shines

We know that outdoor connectivity is meaningless if it doesn't offer quality and longevity. Because only by offering reliable solutions can you enhance your reputation and secure customers' loyalty.

That's why we're placing even greater emphasis on the quality of our Sensor Ready lighting platform. There are six areas in which this is most evident:

Quality lighting
Enhancing spaces, products and well-being

Quality assurance
Reliable, thoroughly-tested components

Quality innovation
World-leading connected lighting

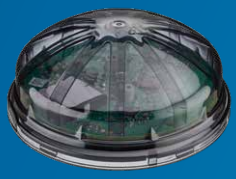
Quality people
Guidance and inspiration from our industry experts

Quality support
Technical and operational backup, on and off-line

Quality leadership
Future-proof, standards-based solutions

Our ongoing focus on quality will enable you to offer high-value, reliable solutions. Together we can make sure your customers always have the right outdoor lighting.

Specifications



Outdoor

Product specification

Product name	Dimensions	Key features	Configurable via	Operating temperature	Interface	Product code
	mm			°C		GPC
EasyAir SNO110	ø 83x40	Adjustable light output Accurate timing On/Off switching Real time DynaDimmer Ramp-up/fade-down time IP66, IK09	SimpleSet (NFC) Bluetooth	-40..+65	SR	929001599206

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