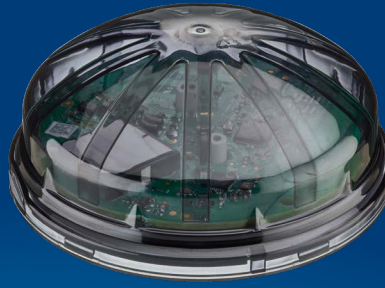


PHILIPS

Sensors

EasyAir

SNO110



Datasheet

EasyAir SNO110

EasyAir SNO110 is ideally suited for outdoor applications and is intended for individual pole control and configuration. It automatically connects to the Global Navigation Satellite System (GNSS) to obtain date and time information in real time. On/off switching as well as a 5-step DynaDimmer scheduling based on date and time can be configured using Bluetooth communication. Therefore, this device can easily replace a photocell or LineSwitch-based control mechanism.

EasyAir SNO110 operates with Xitanium SR drivers via a 3 wire interface through the standardized interface SR connector. The result is a long-lasting, cost-effective and easy-to-design-in solution ideal for energy savings.

An intuitive app called **EasyAir SNO** allows for quick and easy access control and configuration of the device during and after installation.

EasyAir SNO110

Features

- Compact size; 3 wire connection
- Operates with Xitanium SR drivers with AUX power supply
- Global Positioning System which accurate location and time information
- Easy configuration with SimpleSet/ NFC in factory
- Under the pole configuration using Bluetooth Low Energy (BLE) with smartphone app
- Easy intuitive app for access control and configuration
- Secure NFC and BLE configuration

Benefits

- Easy to install as it fits onto SR connector
- Can be used on both switched and unswitched mains

Applications

Standalone control for:

- Residential or Urban area
- City center, Shopping area
- Pedestrian, bicycle roads
- Squares, Campus
- Parking areas

Ordering information

Commercial product name	Description	12NC	Carton quantity
EasyAir SNO110	Outdoor node	9290 015 99206	10
SR-Connector	For mounting of EasyAir SNO110	9290 016 50806	100
SR-Connector cap light-grey	Cap to close the SR-Connector when not in use	9290 016 51006	100
SR-Connector cap dark-grey	Cap to close the SR-Connector when not in use	9290 016 50906	100

Product data

All specifications are typical and at 25 °C T_{ambient} unless otherwise specified.

Physical information

Overall Dimensions	Diameter 80 mm, height 40 mm
Net Weight per Piece	70 grams
Color	Smoke Grey
Connectors	SR connector (standardized in Zhaga book 18)

Electrical information

Input Voltage	Powered by SR driver low-voltage 24V interface
Current Consumption	11 mA, max. 16 mA
Nominal Power Consumption	260 mW
Standby Power	

Environment & Approbation

Operating Ambient Temperature Range	-30 °C to 50 °C
Operating Humidity	10% to 90% non condensing
Storage Temperature	-30 °C to 85 °C
Storage Humidity	5% to 90% non condensing
Pollution Degree	4
Ingress Protection	IP66
Mechanical protection	IK08
UV protection	Protected by Housing
Salt ingress	Protected by Housing
Agency Approbations	CE, RED/EMC
Digital Interface	Xitanium SR

Reliability

Failure rate at nominal supply voltage	1000ppm/1000h @ Tamb=40°C @ 50% Humidity
Lifetime	<10% failures at 100khours @ Tamb=40°C @ 50% Humidity

Bluetooth Low Energy (BLE)

ISM band	2.4GHz
Output power	Max +10dBm
PER	Max 30.8%
Max Pole height	18m
Max distance user to pole	30m @ 18m height

EasyAir SNO App Features

SimpleSet/NFC	For access control and device configuration in factory or in field
BLE	For access control and device configuration in factory or in field
Time Zone	To be configured by user
Adjustable light output	10-100%
Use Mains Switching	Default enabled; When disabled, elevation angle needs to be set
Fading time	0-250 s
DynaDimmer	Max 5 steps; Exact time in 24 hour format hh:mm. Each level can be set from 0 to 100%
Elevation angle	-4°..4°; enabled when mains switching is not in use
Light Control	Available via BLE interface for manual override to test the light levels and BLE connection

Device Information

Device Information	Available via EasyAir SNO app, refer "About the device" menu in the feature list
Device name	For device identification; can be modified by installer
Global product code	Device 12NC
BLE MAC address	A 6-byte in hexadecimal format and separated by colons (example - 00:11:22:33:FF:EE)
Software version	Firmware version available on device
Unique product ID	128 bit code as a unique identifier of the device
GPS	Device location coordinates – latitude, longitude
Time	Local time at the location of the device
Diagnostics	If no errors, the status is OK. Else, a 3-byte hexadecimal code appears (example: FFFFBC)

Other

# drivers per SNO110	1
Light sensor	Yes (only as backup when GPS signal is not received)

Compatible LED Drivers

Logistic code (12NC)	Description
9290 016 13506	Xi SR 12W 0.2-0.7A SNEMP 230V C133 sXt
9290 015 98306	Xi SR 22W 0.2-0.7A SNEMP 230V C133 sXt
9290 015 73706	Xi SR 22W 0.3-1.0A SNEMP 230V C133 sXt
9290 015 73506	Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt
9290 015 73606	Xi SR 40W 0.3-1.0A SNEMP 230V C133 sXt
9290 015 07706	Xi SR 75W 0.2-0.7A SNEMP 230V S240 sXt
9290 015 07806	Xi SR 75W 0.3-1.05A SNEMP 230V S240 sXt
9290 015 07506	Xi SR 150W 0.2-0.7A SNEMP 230V S240 sXt
9290 015 07606	Xi SR 150W 0.3-1.05A SNEMP 230V S240 sXt

Product Overview

EasyAir SNO110 consists of:

- A SimpleSet/NFC antenna to work with smartphone app
- A Bluetooth Low Energy (BLE) receiver to work with smartphone app
- A GPS antenna to get accurate position/time information from satellites
- A light sensor which activates when GPS signal is unavailable

For more details and working of EasyAir SNO110, please refer the design in guide available on our website.

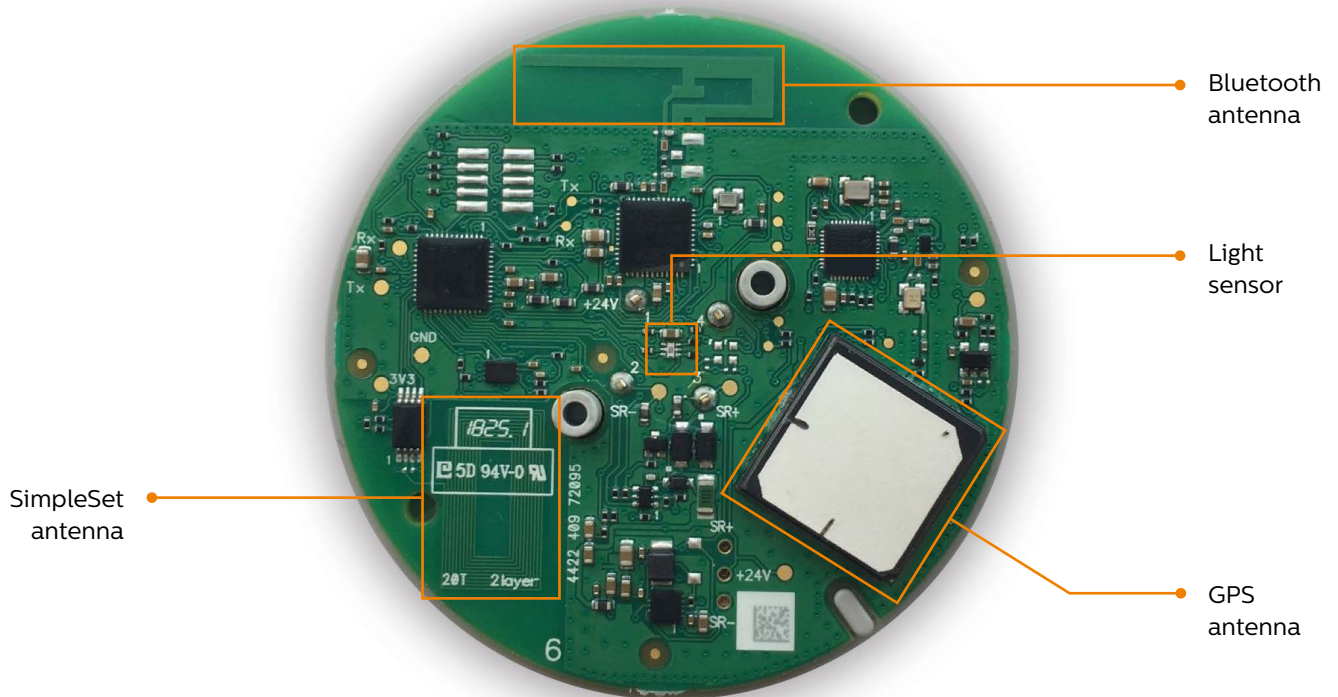


Figure 1 - Position of different elements in EasyAir SNO110

Wiring

EasyAir SNO110 is mounted on SR connector via twist and lock mechanism. The SR connector is connected via 3 wires to SR-, SR+ and AUX terminals of Xitanium SR outdoor driver. For more details on SR connector, please visit the website of Tyco Electronics - www.te.com/usa-en/product-2213858-1.html

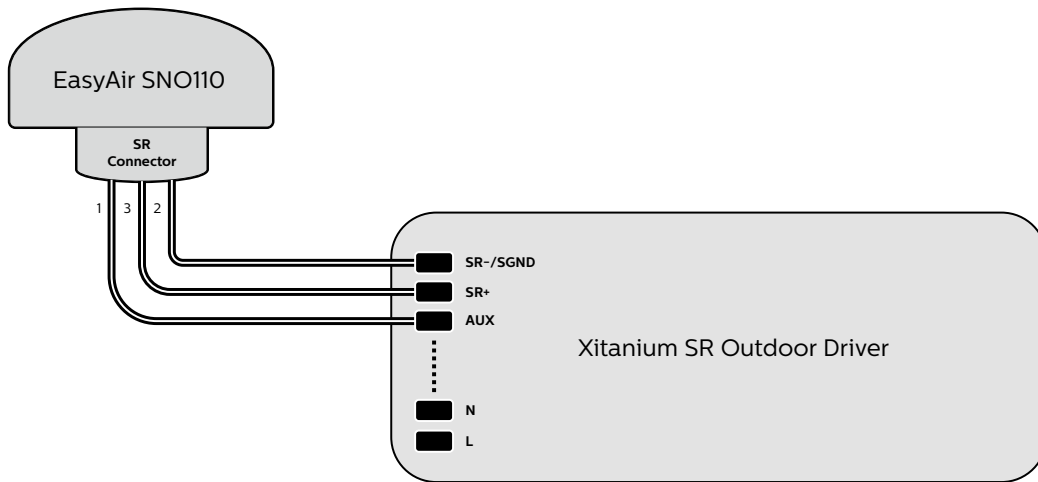
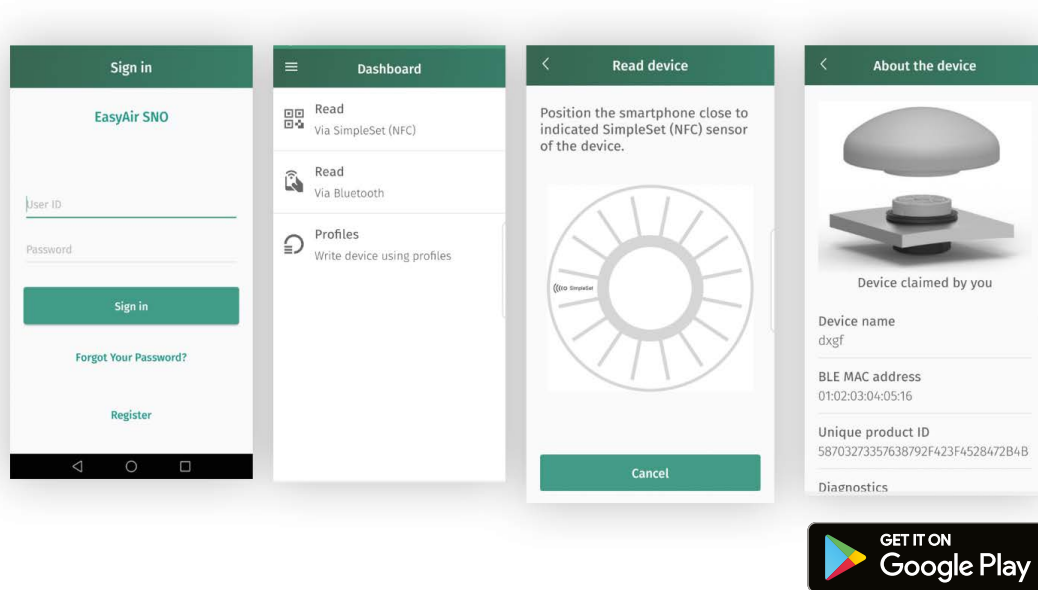


Figure 2 - Wiring of EasyAir SNO110 to Xitanium SR outdoor driver via SR Connector

EasyAir SNO App

EasyAir SNO App is available on Google Play Store for free download. Any user must first register for the app to receive login credentials; following which app login can be done. For more information on app usage along with recommended mobile phones, please visit our website - www.lighting.philips.co.uk/oem-emea/products/easy-to-integrate-wireless-sensors



Default settings in EasyAir SNO110 App

Parameter	Range	Default value
Time zone	Select from the list	GMT+2:00 Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
Use Mains Switching	Enabled or Disabled	Enabled
Adjustable light output	10-100%	100%
Fading time	0-250 s	5 s
DynaDimmer		Disabled
DynaDimmer step	max 5 steps; Exact time in 24 hour format hh:mm	
DynaDimmer Level	0 to 100%	Can be set per step
Elevation angle	-4° to 4°	-0.833°



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01/2019
Data subject to change