

SkyLite External RF is a wireless lighting controller (pole mount) for the monitoring and control of outdoor lighting fixtures. The product is compatible with both conventional (retrofit) and new luminaires (such as LED luminaires).

SkyLite supports seamless communication with other Tvilight products, such as CitySense Plus, SkyLite Prime and Tvilight Gateway, and it can be managed remotely via CityManager LMS.

Remotely programmable lighting schedules allow the users to reduce energy consumption by up to 80%. The in-built monitoring tools notify users (via CityManager LMS) about the lighting-related faults such as lamp or ballast failures. This greatly reduces the need for expensive visual inspections and enables a reduction of operation and maintenance costs.

Designed in the Netherlands  Made in Europe 



IP65



RF Mesh

Features

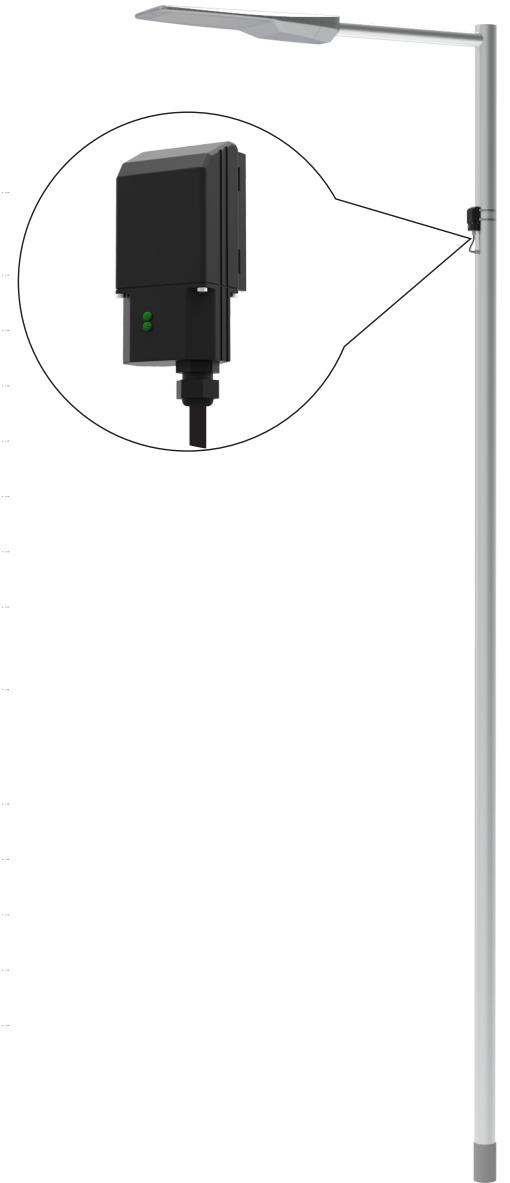
- Wireless outdoor lighting controller
- Remote management & control via CityManager LMS
- Advanced dimming & adaptive lighting schedule
- Open interfaces for third-party compatibility (API)
- In-built Astronomical Clock with power backup
- Installation on pole (ideal if no Zhaga or NEMA interface is available)
- Fail Proof: 3-level back-up system

Benefits

- Up to 80% energy savings
- Up to 50% maintenance cost reduction
- Reduce light pollution and CO² emissions
- Light on demand via receiving triggers from neighbouring motion sensor units like CitySense Plus or CitySense Lite in combination with SkyLite Prime

SPECIFICATIONS

Product	Wireless communication and lighting control Pole mounting with a 5,5m pre-wired power and control cable for ease of installation Only on project request: internal version, mounted inside the outdoor luminaire, with external antenna
Input voltage	230V AC or 115V AC, 50/ 60 Hz (depending on variant)
Power consumption	<2W
DALI loads	1
Dimming control	0-10V or DALI
Surge protection	110 joule (6kA), 2kV combination wave
Controller	ARM Cortex-M3 CPU
Electrical protection	Class II: (overload-short circuit)
Electrical safety	Galvanic isolation between high-voltage and low-voltage terminals
Operating conditions	-20°C to +70°C operating; -40°C to +85°C storage; 20% to 90%, Rh non-condensing
Product mounting	On the pole
Housing	IP65
Antenna	Antenna integrated inside product
Dimensions	160mm x 110mm x 60mm
Product compatibility	Compatibility with traditional and LED lights Direct wireless communication with CitySense family (motion trigger), data communication with CityManager LMS: through IoT Gateway



Wireless communication	<p>2.4 GHz IEEE 802.15.4 Self-forming, self-healing wireless network.</p> <p>Depending on variant: +9.5dBm max. transmit power, -96dBm receiver sensitivity, up to 150-meter open field range or +22dBm transmit power, -100dBm max. receiver sensitivity, up to 1 km open field range</p> <p>Up to 250 kbps microcontroller RF data rate 32-bit microcontroller, 64 kB Flash and 16 kB RAM</p>
Network security	128 AES Multi-layer security
Over-the-air update	Configuration, software as well as firmware can be updated remotely ensuring up-to-date network infrastructure.
Server communication	Via Gateway
Device to Gateway ratio	200:1
Remote monitoring	<p>Via CityManager LMS or similar third-party management software (via API)</p> <p>CityManager LMS enables remote management, monitoring, control, and configuration of lamps on individual and group level.</p>
Safety mode	<p>Auto-safe: in case of network loss, brightness will go to a pre-defined level depending on the settings</p> <p>AstroClock based scheduling is still possible.</p>
Certification	CE, CB, ENEC, EN61547, EN55015, EN60950-1, EN61347-2-11, EN 301 489-1/17, EN 300 328, RoHS. RF transceiver compliant with US (FCC), Canadian (IC), European (ETSI), and Japanese (Telec) standards.
Manufacturing	ISO 9001:2008, Made in Europe

AstroClock	Real-time clock with power backup; AstroClock feature.
Warranty	Standard 2 years limited warranty. Extended warranty available. Warranty subject to proper use of installation and application manuals.
Application	Outdoor street lighting, Area lighting

AVAILABLE VARIANTS

Order code	Description
PR161898	SkyLite External RF, 115-230V
PR182303	Installation kit, for SkyLite External