



Smart city & smart lighting

Citylone introduces the **SL21**, the **smallest LonWorks® lighting controller** on the market. It provides urban lighting control and can be installed in even the smallest connection boxes thanks to its compact size.

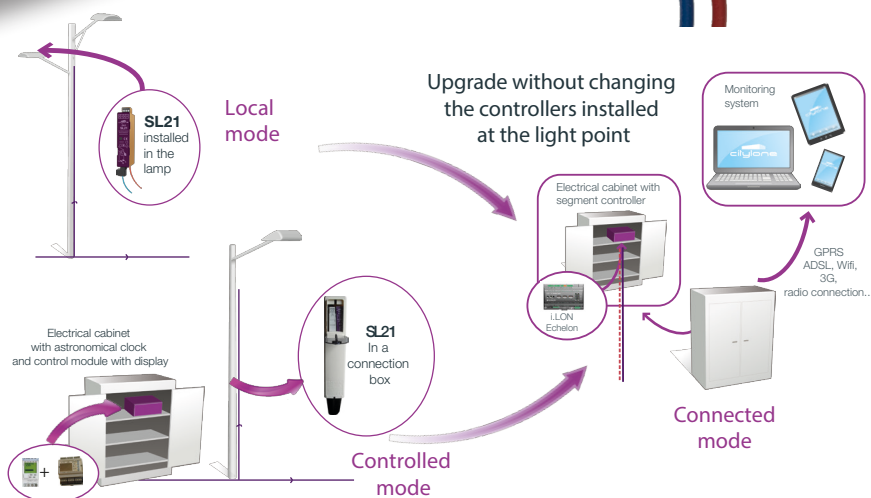
SL21

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Compact urban lighting controller

Key Strengths

- Compact
- Configurable to the various requirements of an urban environment
- Upgradable from a local to a connected solution



The SL21 uses **power line carrier** technology (via the existing power grid) and operates using the **LonWorks® protocol**, which is open and interoperable (non-proprietary).

The SL21 series controllers can **control DALI or 1-10V electronic ballasts** in an ultra-compact case.

They can operate in **local mode or integrated into a remote management system** (see solution sheets).

The ultra-compact SL21 can be integrated directly into the lighting fixture or into a small connection box.

It allows to:

- 💡 **Reduce energy consumption** by controlling the switching on and off, and dimming of the lighting
- 💡 **Easily accommodate existing systems:** management of all types of electronic ballasts (DALI or 1-10V) by the same product
- 💡 **Adjust the light to the requirements of each area** with demand-driven and upgradeable solutions
- 💡 **Provide efficient maintenance management** by checking the working condition of each lamp/ballast and sending an alert in the event of failure (remote management).

MECHANICAL SPECIFICATIONS

Material	Self-extinguishing thermoplastic V0
Dimensions	L 84.1 x W 20.1x H 36.6 mm (ex. connections)
Weight	90 gr
Mechanical protection	IP2X

ELECTRICAL CHARACTERISTICS

Power supply	88 to 265 VAC / 50 to 60Hz
Power output	2A Max
Information	Status report of the lighting fixture + ballast (state differentiated in DALI) Number of lighting hours
Measurements	Current, Voltage, Power, Power factor, Temperature, Instantaneous and cumulative consumption (energy consumed)

POWER LINE CARRIER

Communication	PLC C Band C - CENELEC EN50065-1 (4800 bauds)
Propagation	Repeats the signal from pole to pole Signal loss monitoring
Connection	Connection via internet to the Echelon iLon segment controller
Lon® Network	ISO/IEC 14908 LonTalk® protocol-based nodes

CONNECTORS - INSTALLATION

Connectors	2 unpluggable points (5.08mm pitch connector) for the power output 4 unpluggable points (3.5mm pitch connector) for 1-10V, Dali or ECS
Cables	0.2 to 3 mm² max single wire (1.5mm² max 4 pts), 2.5mm² max. multi-wire
Power cables	
Installation	On Din Rail in the connection box Class II or in the lamp

ENVIRONMENT

Storage temperature	-25°C to +75°C
Operating temperature	-25°C to +60°C
Humidity	95 %

STANDARDS / GUARANTEES

2014/35/EU "LOW VOLTAGE" DIRECTIVE
2011/65/EU "ROHS DIRECTIVE"
2014/30/EU "ELECTROMAGNETIC COMPATIBILITY" DIRECTIVE
All our products come with a 5-year warranty for standard exchange
(see T&C for details).

PRODUCT RANGE

REFERENCES	DESCRIPTION
SL21-E-M Available as local or connected solution	Controller for DALI and/or 1/10V ballasts A DALI controller (two independent settings in connected solution) and a 1/10V: DALI and 1/10V independently controlled via remote management Measurement U, I, Power factor, Temperature 300W - 2A maximum
SL21-EDA-ECS-M Available as local or connected solution	Controller to independently control 2 DALI ballasts A DALI controller (two independent settings in connected solution) A dry contact input Measurement U, I, Power factor, Temperature 300W - 2A maximum
SL21-ED-ECS-M Available as local or connected solution	Controller for a 1/10V ballast A 1-10V controller A dry contact input Measurement U, I, Power factor, Temperature 300W - 2A maximum



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