citylone

Smart city & smart lighting

SL42

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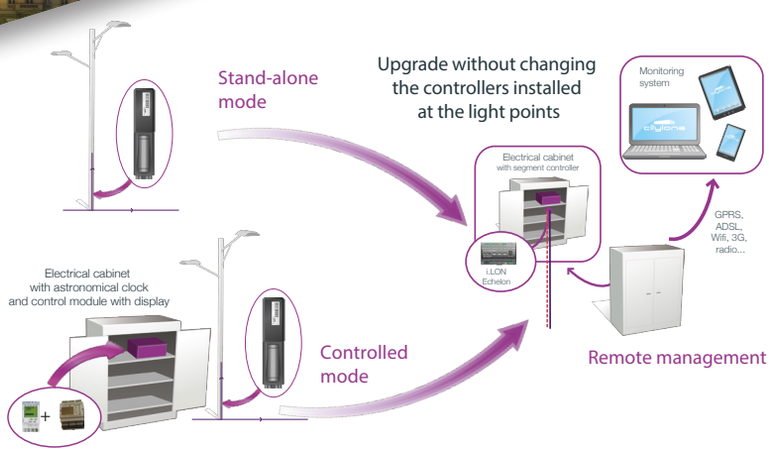
Lighting controller for ferromagnetic ballasts

The SL42 controllers are designed to control ferromagnetic ballasts (dimmable) in a standard or compact case that can be installed directly in the lamp or the pole.

Key Strengths

- Can be used to upgrade existing systems
- Configurable to the various requirements of an urban environment
- Upgradable from a local to connected solution



The SL42 lighting controller uses **power line carrier** technology (via the existing power grid) and operates using the **LonWorks® protocol, which is open and interoperable** (non-proprietary).

It is installed before the ballast in the pole of the lighting fixture, and controls ferromagnetic on/off or dimmable ballasts. It can operate in stand-alone mode, be controlled or integrated into a remote management system (see specific solution sheets) and is available in a standard or compact format (to be installed in a box).

The SL42 is **a patented product for dimming ferromagnetic ballasts**.

It is designed to::

- **Reduce energy consumption** by controlling the **switching and dimming of the lighting and monitoring consumption** when integrated into a remote management system.
- **Control an existing system without modifying the ballast** as it controls an ON/OFF or dimming ferromagnetic ballast (patented system) to reduce the power.
- **Provide optimal maintenance management** by checking the **working condition of each lamp/ballast** and issuing an **alert** in the event of failure (remote management). It can **measure the real-time** voltage, current and power factor as well as the cumulative energy consumption.
- **Adjust the lighting to the requirements of each area** by controlling each light point or group of light points in **real time** (remote management).
- **Incorporate street lighting as a key network of a smart city**: the SL42 can be used to control the power supply of an additional component (festive lighting, video surveillance, etc.).

MECHANICAL SPECIFICATIONS

Standard format

Material..... ABS /High-impact Polystyrene /V0

Dimensions ..... L 337.2 x W 75 x H 48.4mm

Weight..... 540 gr

Mechanical protection ... IP42

Installation ..... In the pole of the lighting fixture

Fastening..... 1 or 2 screws (not supplied) or mounted with adjustable height bracket

Compact format

Material..... ABS /High-impact Polystyrene /V0

Dimensions ..... L 160 x W 65 x H 37mm

Weight..... 270 gr

Mechanical protection ... IP2X

ELECTRICAL CHARACTERISTICS

Power supply ..... 230 VAC (-15% +10%) 50 to 60 Hz

Power output ..... 3A Max

Information..... Voltage, current, power factor Failures - Hours of operation - Energy consumed

Warning: during installation, the capacitor must be changed and installed before the ballast.

Citylone also recommends to change the lamp when installing the controllers to ensure the most efficient system possible.

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 ..... 1 7-pin push connector 1 4-pin push connector (for 1T option)

Installation ..... In a connection box or lamp (subject to technical validation of the manufacturer) Can be installed in a case with or without protection and capacitor (please contact us).

ENVIRONMENT

Storage temperature ..... -25°C to +75°C

Operating temperature... -25°C to +45°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
SL42-FD-1T-M (standard version)	1 filtered controlled output (U,I & Cos Phi) for dimming of ferromagnetic ballast (250W maxi) 1 independent auxiliary output NO/NC (3A Max - 500W)
SL42C-FD-1T-M (compact version)	1 filtered controlled output (U,I & Cos Phi) for dimming of ferromagnetic ballast (250W maxi) 1 independent auxiliary output NO/NC (3A Max - 500W)

All references available in local or connected solutions.

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