

## SL31 Compact smart controller for street-lighting

SL31 controllers can control DALI or electronic ballasts (1-10V) or magnetic (in ON/OFF), in a compact case installed directly into the junction box of the pole. SL31 uses powerline technology (through existing electrical network) and communicates using open and interoperable (non proprietary) LonWorks® protocol.

They can operate in autonomous, driven mode or integrated into a remote management system (please refer to each solution sheet for more information).

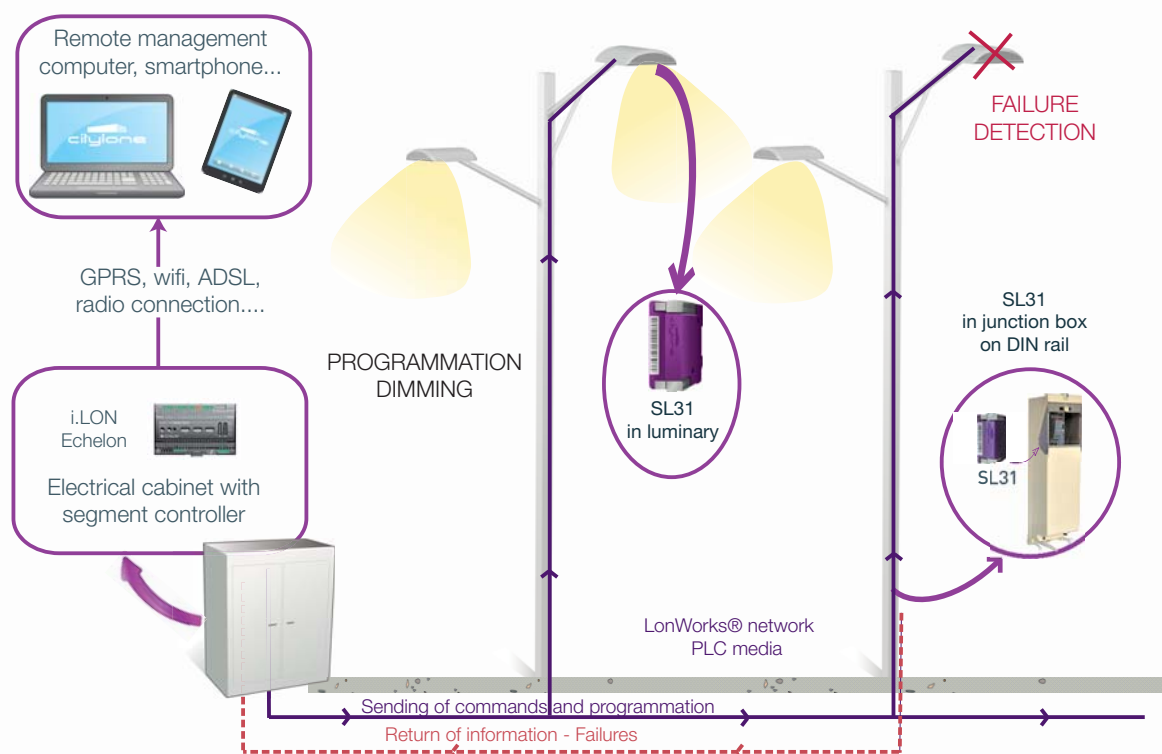


### Operating principle

Thanks to its small size, SL31 can be placed directly into the junction box. It allows to :

- **reduce energy consumption** thanks to control of lighting, extinction and dimming (lighting levels are adapted to needs, according to a time schedule for example) and help consumption follow up when integrated in a remote management system
- **adapt to existing or new configuration** as it can manage any kind of electronic ballast (DALI or 1-10V) or magnetic (in ON/OFF)
- **get a rational approach of maintenance** thanks to return of information on each lamp/ballast status and sending of alarms in case of default (remote management).
- **adapt light to needs of every area** by driving each lighting point or each group of lighting points in real time
- **imagine public lighting as a network for smart city** : SL31 can manage powering of additional elements such as festive lighting, video surveillance... or cut powering of ballast during the day for a 24h powered network thanks to relay (mandatory for 1-10V)

In option, it allows measurement of instantaneous parameters (voltage, current, power factor), recording of accumulations (power) and alarm feedback.



## Mechanical Specifications

Material	PC V0
Dimensions	L.91.6 x l.36 x h.65mm
Weight	190 gr
Mecanical protection	IP2X

## Electrical Specifications

Powering	88 to 265 VAC / 50 to 60Hz
Output current	3A Max
Relay	3A - Inrush current 30A max
Measures	Information feedback of the lamp + ballast status (DALI version) Ignition hours (all versions)
Alternative measures	Current consumption, Voltage, Power factor Instantaneous and cumulative consumption (power) Lamp and ballast status (other than DALI version)

## PLC Specifications

Communication	PLC - C band CENELEC EN50065-1 (4800 bauds)
Propagation	Ability to repeat the signal from pole to pole Power loss of signal
Connection	Possibility to connect via internet at the segment controller (i.Lon Echelon)
Réseau Lon®	ISO/IEC 14908 - LON® node based on LonTalk® Protocol

## Wiring and Installation

Connectors	7 pts removable (5.08mm max) - 4 pts removable (5.08 mm max) Cables section 0.2 to 3 mm² single-stranded , 2.5 mm² multistrand
Installation	On DIN rail into the Class 2 junction box

## Environment

Storage Temperature	-25°C to +75°C	Use Temperature	-25°C to +60°C
Humidity	95 %		

## Norms / Warranty

DIRECTIVE 2006/95/CE « LOW TENSION »

DIRECTIVE 2004/108/CE « ELECTROMAGNETIC COMPATIBILITY »

DIRECTIVE 2002/95/CE « ROHS DIRECTIVE »

All our products are warranted 5 years by standard exchange (see General Terms of Sales)

## Range

References	Description
<b>SL31-EDA4</b> Available in autonomous (-AM) or driven (-P) or remote management version (-T)	<b>Controller for management of up to 4 DALI ballasts</b> 1 power output (600W -3A) 2 outputs for control up to 4 DALI ballasts 1 NO/NC auxiliary relay
<b>SL31-EDA-ECS</b> Available in autonomous (-AM) or driven (-P) or remote management version (-T)	<b>Controller for management of up to 2 DALI ballasts</b> 1 power output (600W -3A) 1 output for control up to 2 DALI ballasts 1 NO/NC relay 1 dry entry contact
<b>SL31-ED-ECS</b> Available in autonomous (-AM) or driven (-P) or remote management version (-T)	<b>Controller for management of 1-10V ballasts</b> 1 power output (600W-3A) 1 output for dimming 1-10V 1 NO / NC relay 1 dry entry contact
<b>SL31-1T</b> Available in autonomous (-AM) or driven (-P) or remote management version (-T)	<b>On/off controller for any kind of ballasts</b> 1 power output (600W -3A) 1 NO/NC relay
<b>Measure Option</b> (-M)	Measurement of U, I, Power factor, Temperature