

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).

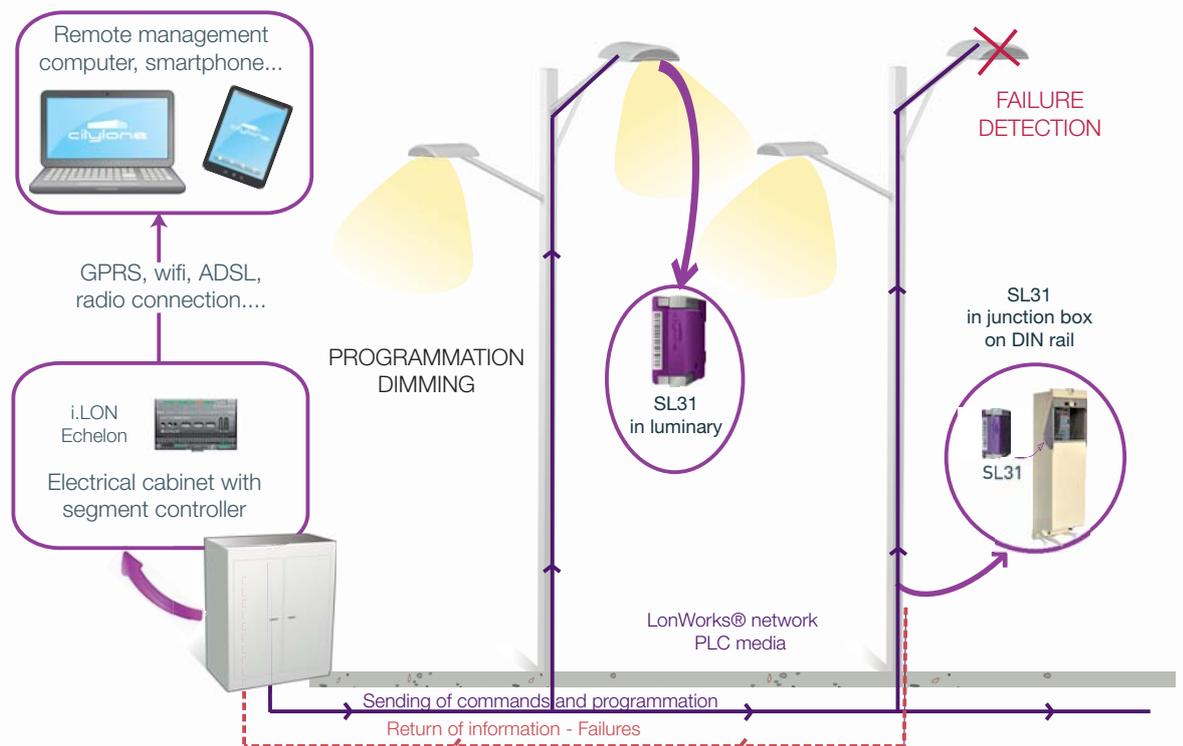


Operating principle

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 mm ² single-stranded , 2.5 mm ² 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
SL31-EDA4 Available in autonomous (-AM) or driven (-P) or remote management version (-T)	Controller for management of up to 4 DALI ballasts 1 power output (600W -3A) 2 outputs for control up to 4 DALI ballasts 1 NO/NC auxiliary relay
SL31-EDA-ECS Available in autonomous (-AM) or driven (-P) or remote management version (-T)	Controller for management of up to 2 DALI ballasts 1 power output (600W -3A) 1 output for control up to 2 DALI ballasts 1 NO/NC relay 1 dry entry contact
SL31-ED-ECS Available in autonomous (-AM) or driven (-P) or remote management version (-T)	Controller for management of 1-10V ballasts 1 power output (600W-3A) 1 output for dimming 1-10V 1 NO / NC relay 1 dry entry contact
SL31-1T Available in autonomous (-AM) or driven (-P) or remote management version (-T)	On/off controller for any kind of ballasts 1 power output (600W -3A) 1 NO/NC relay
Measure Option (-M)	Measurement of U, I, Power factor, Temperature