

SL31 Compact smart controller for street-lighting installation in the junction box

SL31 controllers can control DALI or electronic ballasts (1-10V) or magnetic in ON/OFF or dimming, in a compact case installed directly into the junction box of the pole or in the luminaire (depending on versions).

Based on LonWorks® protocol, open and interoperable (opened language), they can operate in autonomous or driven mode or integrated into a remote management system.



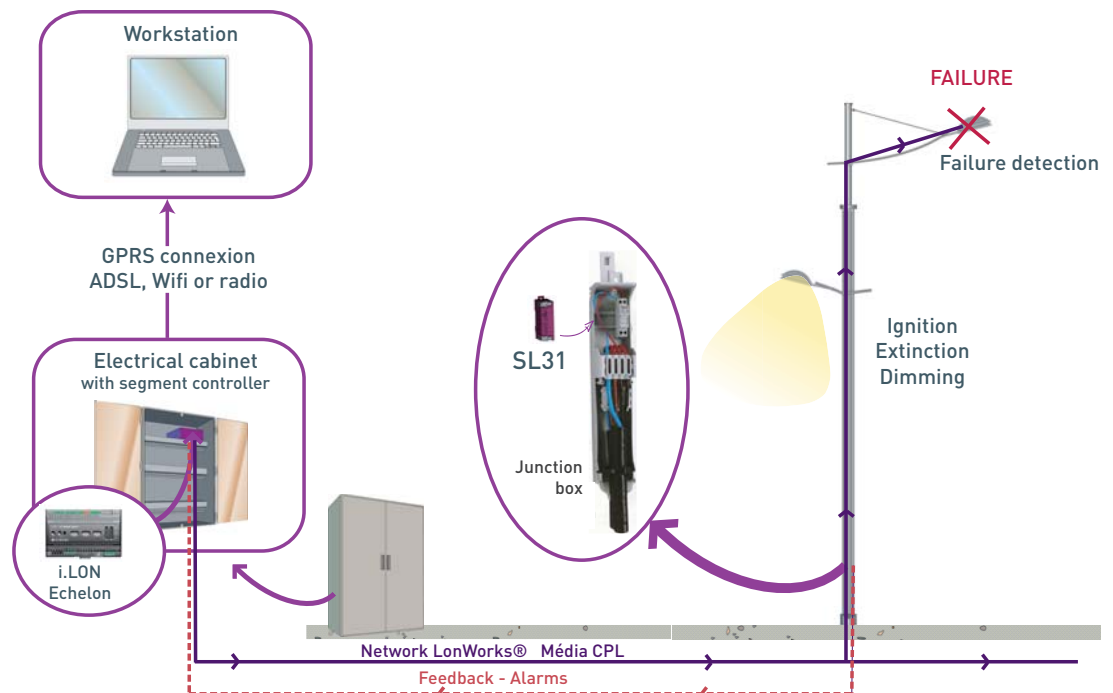
Operating principle

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

It allows to :

- **drive and control** any type of **electronic(DALI, 1-10V) or magnetic ballast (ON/OFF or dimming)**
- **control ignition, extinction and dimming** of an outdoor lighting (to adjust light levels as needed, depending on time schedule)
- get the operating status of each lamp / ballast and sends **alarm** in case of failure (see technical datasheet)
- control each lighting point or a group of lighting points in real time and follow consumption when **integrated in a remote management system**.
- **manage** the power of an **additional element** (festive lighting, video surveillance ...) or **switch off the ballast** during the day (for permanently powered network) thanks to its relay (mandatory use for 1-10V).

In option, it allows measurement of instantaneous parameters (voltage, current, power factor), recording of accumulations (power) and alarm feedback for 1-10V versions.



Mechanical Specifications

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

Electrical Specifications

Powering	195 to 265VAC (FD version) 88 to 265 VAC (others versions) / 50 to 60Hz
Output current	3A 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)

CPL Specifications

Communication	CPL - 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 or in luminary (see versions)

Environment

Storage Temperature	-25°C to +75°C	Use Temperature	-25°C to +60°C (+45°C for FD)
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	1 power output (600W -3A) 2 outputs for control up to 4 DALI ballasts 1 NO/NC auxiliary relay
SL31-EDA-ECS	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	1 power output (600W-3A) 1 output for dimming 1-10V 1 NO / NC relay 1 dry entry contact
SL31-1T	1 power output (600W -3A) 1 NO/NC relay
SL31-FD-M	1 power output (250W -3A) + measure included - no relay 1 connection control for control of magnetic ballast
Measure Option	Measurement of U, I, Power factor, T°



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