Driver DL-PAK 70



OPTIMIZE MAINTENANCE AND PERFORMANCE OF YOUR STREET LIGHTING





Maintenance savings, performance and true ease of maintenance.

energy savings: the new generation of LED drivers makes it possible to both power new lights and maintain existing installations, while delivering high



for municipalities, operators and installers



ARE SHAPING TOMORROW'S IMPROVEMENTS

for street lighting installations.



Taking into

consideration the increasing constraints on the operating budgets of urban areas.



Integrating new maintenance activities.

Gradual expiry of manufacturer warranties for LED lights.

Managing a wide variety of drivers within installations (size, power, etc.).



Easing maintenance operations.

- ▶ Reducing the number and time of work operations.
- Spacing out maintenance operations.

Improving performance.

Power factor.

Efficiency.



to new usages.

Today, ethe light points are dimmed about 50% of their used time





Continuing energy-saving efforts.



The universal solution

for powering your outdoor LED lighting

A single LED driver reference, dedicated to new and existing installations, suitable for all types of installation.

A 10–700 mA configurable current for a wide power range of 0.25–70 W.

Installation at the lamppost base or in light fixtures*.

A limited number of references for easier management.



DESIGNED TO LAST!

- Isolated (SELV).
- Class-2 compatible.
- ▶ IP65 for durable operation in an outdoor environment.
- Highly resistant to network disruptions.
- Lighting stability.
- Designed for 100,000 hours' operating time.





High performance

both dimmed and on full power

Across a wide operating range:

A stable and efficient power factor.

▶ Very high efficiency.

Innovation recognised and validated by two patents.





Also

The DL-Pak 70 driver is compatible with our smart management and sensing solutions.

SensyCity*

Tegis*

Recognised know-how and expertise from LACROIX City's Street Lighting Business Unit for 20 years.







Gesigned for a controlled environmental impact

The new generation of the DL-Pak 70 has been developed to limit its energy consumption and environmental impact throughout its life cycle.

A reduction of more than **25**% in the product's mass*.

Standby mode consumption devided by 7.

A **41**% reduction in the carbon footprint*.

Improved recyclability rate to reach 89%.



28.3 kg CO2 equivalent

throughout the product's lifecycle.

Energy Savings are immediate

▶ Energy performance greater than 91.5%, even at 50% of its load capacity.

many dimming options.

▶ Consumption in standby mode is very high performance, less than 0.2 W.

Number of drivers per output optimised thanks to the low inrush current.





Integrated self-dimming

Up to six timing transitions per night. Power levels adjustable from 0% to 100%. Can filter possible daylight start-ups.



Dimming using the DALI protocol

Suitable for any management mode using the DALI protocol: sensing, smart management, etc.



Dimming/boost using the PILOT function

Operation controlled by pilot wire. Configurable dimming or boost level.

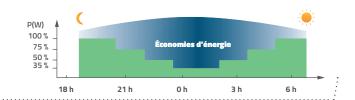
All functions can be easily configured with our MyDL-Pak application.



- Adapted to operational needs outdoors.
- Power-off configuration by NFC or with power on using DALI.
- Tool to help with initial technical light point diagnostics (connections, LED panel, driver, network variation, etc.)

Scheduled for release in 2021.



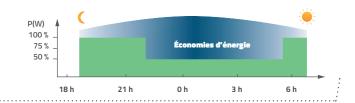


Dimming via voltage regulator



Works with street lighting systems equipped with voltage regulators in electrical cabinets.

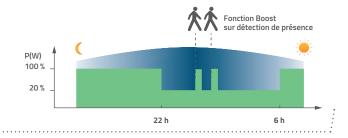
Dimming activated and controlled by the decrease in grid voltage.



Constant Light Output



Lowers power at the beginning of life of the installation, then increases it up to the end of life to compensate for the loss of flow from the light source.



Power On Level



Lowering (<100%) on installation start-up.

COMPATIBILITY BETWEEN FUNCTIONS	ІТВ	DALI	PILOT
ITD		•	•
DALI	•		•
PILOT	•	•	
DIM/V			
CLO	•	•	•
POL	•	•	•

Configurations tailored

to your specific needs

Many configurations are possible, including single and double drivers.





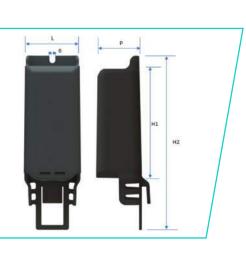


DL-Pak Renovation Kit: a quick and easy solution to keep your existing equipment in optimal condition.

- Reduced number of control gear references.
- Easy to implement on any existing installation.
 - Positioned in the base of the lamppost base to facilitate maintenance.

Dimensions

	DL-PAK 70	DL-PAK 70 Lantern
H1	123 mm	123 mm
H2	197 mm	172.5 mm
L	59 mm	59 mm
Р	49.5 mm	49.5 mm
Е	/	139 mm
	•	•



DL-Pak 70

SMART FUNCTIONS				
Light Source		LED		
Type of LED control		Constant current		
Dimming fund	tions	ITD, DALI, Pilot, DIM/V		
Additional functions		CLO, POL		
Configuration		Programmable constant current - Power off, contactless NFC, with MyDL-Pak, dedicated application, in factory or on site - Powered, in DALI		
TECHNICA	L CHARACTERISTICS			
	Power supply	220–240 V/50–60 Hz		
	Electrical class	Class-2 compatible, Isolated (SELV)		
	Output voltage	18–115 V		
	Number of LEDs	6 LED min. ; 34 LED max.		
	Output power	0.25–70 W		
	Dimming range @ Pmax	0% ; 1,4%100%		
	Output current	10–700 mA		
Electrical	Performance @ Pmax/50% Pmax/25% Pmax	≥92.5%/≥91.5%/≥88%		
	Power factor @Pmax/22% Pmax/13% Pmax	>0.99/≥0.95/≥0.9		
	Inrush current/Pulse time	20 A/400 μs		
	Number of drivers per output (protection by DPN 16 A curve b)	Up to 17 DL-Pak 70 drivers		
	Consumption in standby mode – dimming at 0%	<0.2W		
	Immunity to overvoltages (differential mode)	7 kV		
	Immunity to overvoltages (common mode)	7 kV		
	Casing	Self-extinguishing PC		
	IK (EN 62262)	IK08		
Mechanical	IP (EN 60529)	IP65		
	Max. distance from the light source	15 m		
	Weight	580 g		
	Dimensions	see opposite		
Estimated lifetime		100,000 hours at Tc <68°C (90%)		
	Ambient temperature	-25°C +60°C		
Environment	Humidity	10–95 %		
Certification		CE		
		ENEC		
		SELV		
Product standards		EN61347-1/EN61347-2-13		
		EN62384		
		EN61547		
		EN55015/EN61000-3-2/EN61000- 3-3		
Warranty period		5 years		

Out

lout Uou Pm



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