# Driver DL-PAK 70

OPTIMIZE MAINTENANCE AND PERFORMANCE OF YOUR STREET LIGHTING

LACROIX

# When the search for savings leads to performance

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

# TODAY'S CHALLENGES

for municipalities, operators and installers

...

**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.).

**Adapting** to new usages.

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

**Meeting** environmental challenges.

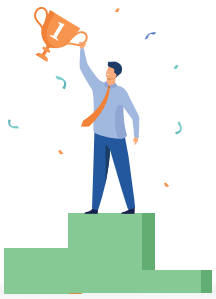
...

# ARE SHAPING TOMORROW'S IMPROVEMENTS

for street lighting installations.

**Easing** maintenance operations.

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



**Improving** performance.

- Power factor.
- Efficiency.

**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!

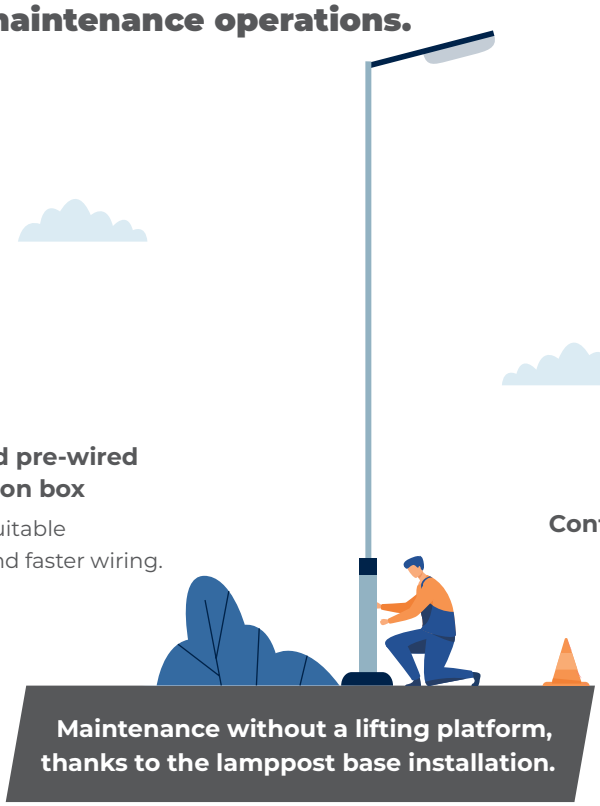
- Isolated (SELV).
- Class-2 compatible.
- IP65 for durable operation in an outdoor environment.
- Highly resistant to network disruptions.
- Lighting stability.
- Designed for 100,000 hours' operating time.

* Please contact us

# Installation in the lamppost base

## for more efficient maintenance

**Optimise the time on your installation and maintenance operations.**



**Assembled pre-wired with junction box**

to ensure a suitable connection and faster wiring.

**Configuration with power off.**

**Maintenance without a lifting platform, thanks to the lamppost base installation.**

**Flexible installation.**

**Simple reprogramming from a smartphone**

thanks to NFC contactless technology.

**Suitable for any type of existing installation, it is free of the various constraints (dimensional, supply or obsolescence) of original equipment drivers thanks to the lamppost base installation.**

# 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.

# Eco-designed 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%.**

DESIGNED AND MADE IN FRANCE

**28.3 kg CO2 equivalent**

throughout the product's lifecycle.

* compared to the previous generation.

# 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.

## Smart features built into the light point to maximise energy savings.

up to 50% savings ITD

### Integrated self-dimming

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

up to 50% savings DALI

### Dimming using the DALI protocol

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

up to 80% savings PILOT

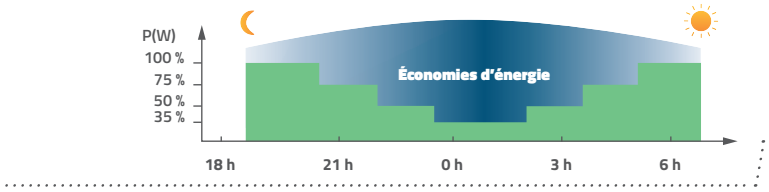
### Dimming/boost using the PILOT function

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.**

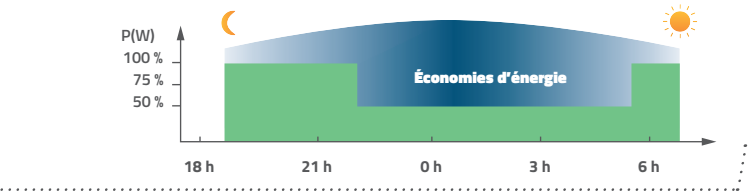



## Dimming via voltage regulator

**DIM/V**

up to 35% savings

Works with street lighting systems equipped with voltage regulators in electrical cabinets.
Dimming activated and controlled by the decrease in grid voltage.

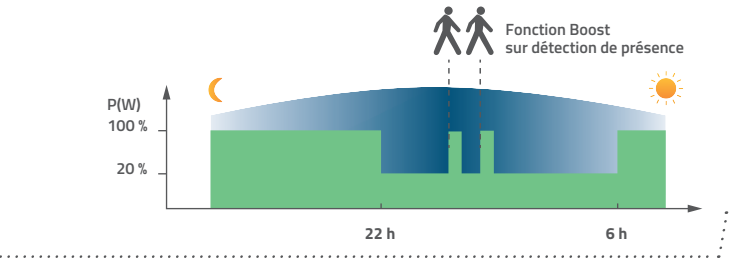



## Constant Light Output

**CLO**

up to 30% savings

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

**POL**

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

| COMPATIBILITY BETWEEN FUNCTIONS | ITD | 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 |
| P | 49.5 mm | 49.5 mm |
| E | / | 139 mm |

# DL-Pak 70

| SMART FUNCTIONS | | |
|---|---|---|
| Light Source | | LED |
| Type of LED control | | Constant current |
| Dimming functions | | 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<br>- Powered, in DALI |
| **TECHNICAL CHARACTERISTICS** | | |
| Electrical | 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 |
| | 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 |
| Mechanical | Casing | Self-extinguishing PC |
| | IK (EN 62262) | IK08 |
| | 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%) |
| Environment | Ambient temperature | -25°C +60°C |
| | 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 |

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