



# **PUBLIC LIGHTING SOLUTIONS**



# EFFICIENT, SAFE AND RELIABLE PUBLIC LIGHTING RANGE

DKC is an Italian industrial Group, active in the development of **electrical engineering and energy infrastructure solutions**, according to high-quality, reliable and up-to-code standards. With our internal engineering, direct process monitoring, and made-in-Italy production, our modular and integrated product range is designed to meet the **actual requirements of field installers, designers and operators**.

And DKC's public lighting range is no exception, as it relies on the technical **expertise** we have built over time, also through the time-tested **Conchiglia Line** - a long-time-standing benchmark in this field. This technical background becomes design competence, knowledge of sector-specific requirements, and ability to develop **reliable and advanced solutions**, in line with technical demands. The range is designed to support the creation of

efficient, **safe and reliable systems over time**, ensuring their continued operation, simplifying installation and maintenance work, and guaranteeing compliance with the necessary technical and certification standards. With a comprehensive offering **and expertise tailored** to the sector's needs, DKC is your perfect public lighting partner, providing **cutting-edge solutions you can rely on** to manage your system in a competent, structured manner.

DKC, your public lighting partner

  
NEXT TO YOU



## PATENTED RESET SYSTEM



### ADVANCED PROTECTION, REFINED DESIGN

This innovative flush-mounted shunt and closing system, housed inside the pole, with terminal block and hatch, eliminates all protruding elements. This provides huge aesthetic and functional benefits: enhanced passive safety, better protection of live parts, and a neater, more reliable system that stands the test of time. Moreover, in-pole mounting and full insulation ensure protection even if the hatch is damaged.

#### TECHNICAL FEATURES

- **IP66** protection rating
- **IK08** impact resistance
- **IMQ** certification according to Standard EN 60998-2-1
- For **45x186 slot**
- Aluminium alloy + insulating material hatches
- **2- or 4-pole** terminal block configuration
- Fuse holder **rated up to 10 A**
- Customisable with logo and painting



## POLE-MOUNTED HATCHES

### STRUCTURAL PROTECTION AND FUNCTIONAL ACCESSIBILITY

Designed to ensure a safe and reliable seal of the pole compartment, they protect the internal components and enhance the overall system's operation. Modular range, designed to integrate with terminal blocks and protection systems, adapting to the main installation configurations used in public lighting.

#### MAIN FEATURES

- Available in aluminium alloy + insulating material
- Versions for standard slots 38x132 and 45x186, and for special slots up to 100x350
- Compatible with different pole shapes and diameters
- Fastening systems with triangle-head screws
- IP54 protection rating and IK10 impact resistance
- Customisable with logo and painting



## POLE-MOUNTED TERMINAL BLOCKS



### SAFE CONNECTION, TIDY MANAGEMENT

The core of the public lighting network's power supply system.

Providing safe connections, uninterrupted service and long-term reliability, they increase power management efficiency inside the pole.

The modular and standardised design simplifies site operations and optimises stock management, with this practical solution, easy to install and quick to maintain.

#### THE RANGE INCLUDES:

- 2-pole and 4-pole configurations
- 6 - 35 mm<sup>2</sup> cross sections
- Versions with built-in fuse holder (6.3A - 20A)
- Compatible with standard 38×132 and 45×186 slots, and with special slots
- Suitable for various pole shapes and diameters
- Double insulation according to CEI EN 62262
- Versions with DIN rail for fitting accessories



## NEW TERMINAL BLOCKS WITH PB-FREE TERMINALS

### A SUSTAINABLE RANGE DEVELOPMENT

We updated the Conchiglia Line, by adding terminal blocks with PB-Free aluminium terminals, in line with the latest industry's technical, environmental and regulatory requirements. We removed lead to ensure **the product's full compliance with the RoHS Directive**, in sight of the upcoming European standards on hazardous substances. Beyond a simple update, this conscious design choice will allow today's operators to install **future-proof solutions, anticipating sustainability standards.**

From a technical standpoint, each terminal undergoes a trivalent passivation treatment - environmentally friendly alternative that complies with the main environmental regulations - to prevent galvanic corrosion while maintaining electrical conductivity. Sustainability-wise, being **100% recyclable**, this material provides for **energy savings of up to 95%** during the recovery process, in full alignment with the circular economy model. The new terminal blocks will be integrated into the existing range, as part of the Group's gradual product evolution, to ensure continuity of use and compatibility with existing systems.



## POLE-MOUNTED JUNCTION BOXES

### EXTERNAL JUNCTION AND FLEXIBLE INSTALLATION

Made of fibreglass with an IP43–IP44 protection rating and IK10 impact resistance, and available in 3 different sizes, they are suitable for use in Class II installations. They integrate perfectly into a variety of applications, for an organised and reliable electrical connection management outside the pole. Flexible configuration, provided by different box versions and many accessories available, with pole- or wall-mounting options, and with or without cable protection cover.

#### SOME OF THE MAIN ADVANTAGES:

- Flexible pole- or wall-mounting
- Rugged construction for outdoor use
- Protected connections and operational system continuity
- Compatible with different application configurations
- In accordance with sector-specific compliance requirements
- Empty boxes or boxes with terminal blocks and fuse holders, with or without wiring



## CONTROL PANELS

### OPTIMISED MANAGEMENT AND OPERATIONAL CONTINUITY

General public lighting control units, available in a single-compartment (GP) or double-compartment (GPM) configuration, made of fibreglass with an IP44–IP55 and IK10 rating. They fit perfectly with the Grafi 7 Series street cabinets, and provide intelligent load management, regardless of the lamp type. Versatile layouts and durable materials, to create a tailor-made configuration suitable for any installation requirement, providing complete protection against the weather and temporary faults.

#### SOME OF THE MAIN ADVANTAGES:

- Flexible 1- or 2-compartment configuration with optional metering unit
- Sturdy fibreglass construction for outdoor applications
- Uninterrupted system operation and protection under all weather conditions
- Energy efficiency through optimised control and reduced waste
- Fully equipped with circuit breakers, self-reset relays and photocells



## PHOTOVOLTAIC KITS FOR OFF-GRID LIGHTING SOLUTIONS

Our range of on-grid public lighting solutions is complemented by the stand-alone photovoltaic kits, designed to illuminate those areas not connected to the electricity grid, or for applications where civil works, installation times and infrastructure costs are an issue.

The system combines a PV panel, lamp, storage battery, control unit and mounting structure into a single solution, to ensure uninterrupted service, easy installation and smart operation management.

### A NEW PHOTOVOLTAIC KIT

E.Luma is the next-generation photovoltaic solution for stand-alone urban lighting, featuring a more efficient, smarter system, with advanced monitoring capabilities.

Some of the main features designed to improve its energy efficiency include, the new control unit – developed entirely by DKC engineers – combined with a lithium battery and the new 200 lm/W lamp, to optimise lamp management and lighting performance, while reducing power consumption.

Its connectivity is also evolving: besides point-to-point monitoring via a Bluetooth App – which can be downloaded for free from the digital store – the system is now equipped for remote monitoring through the Energy Portal (a cloud-based application featuring DKC's proprietary protocol), by integrating an optimal module (available on request) to manage the system in a more advanced, centralized way.

### CONTENTS OF THE KIT

- **Light device**  
High-efficiency lamp with up to 60W power rating, dimmable
- **120Wp PV panel**  
Adjustable to various intermediate angles
- **Metal support brackets**  
Made of black-painted steel
- **Storage battery**  
Lithium LiFePO4 12.8V/90Ah
- **Control unit**  
Sets up operating parameters, monitors consumption, optimises operations
- **BLE (standard) and remote connection (optional)**  
Additional LoRaWAN module, available on request
- Pole not included





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