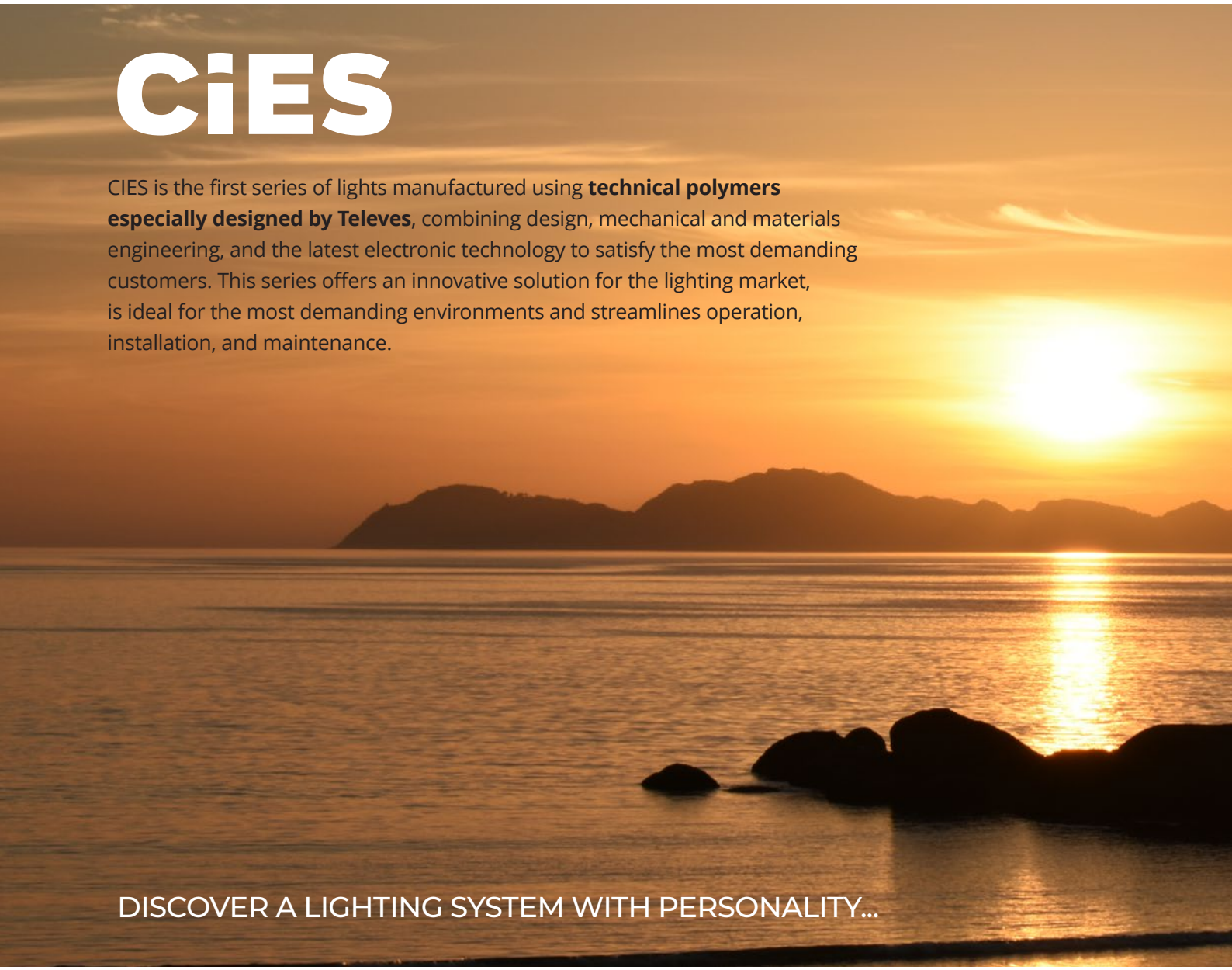
CiES

ECOLOGICAL LIGHTS MADE OF TECHNICAL POLYMER

INDESTRUCTIBLE IN ANY SETTING

Televes®



CiES

CIES is the first series of lights manufactured using **technical polymers especially designed by Televes**, combining design, mechanical and materials engineering, and the latest electronic technology to satisfy the most demanding customers. This series offers an innovative solution for the lighting market, is ideal for the most demanding environments and streamlines operation, installation, and maintenance.

DISCOVER A LIGHTING SYSTEM WITH PERSONALITY...

CIES features a slightly wavy design that evokes the coastal tides surrounding the natural park of the Atlantic Islands of Galicia.

Created in a marine island environment, CIES is known for its excellent durability in the face of extreme weather conditions, including its **immunity to corrosion and resistance to UV damage**.

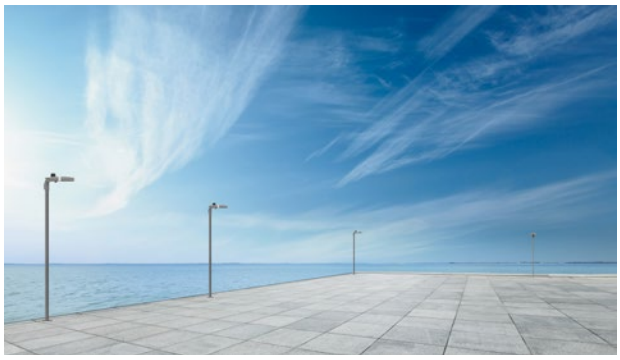
The robustness of the Galician archipelago is embodied in the **superior strength** of the lighting system, which **stands up to blows and impacts**. By contrast, its **light and mellow design** blends with the island's dunes.

The cool breeze of the Atlantic flows effortlessly through the heart of CIES, as its specialized technical polymer dissipater offers **excellent thermal conductivity**. This results in a ventilated core that is **highly resistant to heat**, maintaining a cool temperature which **maximizes the lighting's longevity**.

Inspired by a protected natural park, CIES lighting uses **recyclable materials** and **minimizes the carbon footprint** of its manufacturing process to promote **environmental preservation and respect**.

CIES... Born to shine... designed to last...

We offer two different CIES ranges, depending on the application



ILUMINACIÓN URBANA E INTERURBANA

The outside of industrial facilities, shopping malls, recreation areas, sports facilities, parking lots.

LIGHTING FOR CITIZEN SAFETY

Crosswalks in city and inter-city streets, near schools and parks; streets with low foot traffic; residential neighborhoods; housing developments; pathways; bike lanes; parking lots, etc

INNOVATION AND ENGINEERING DEFINE ITS STYLE

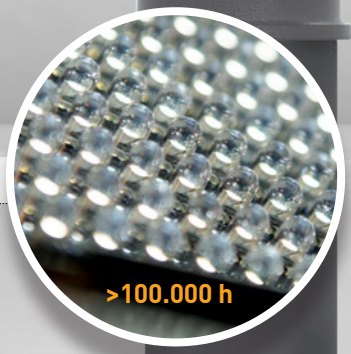
CiES

INVULNERABLE IN ANY ENVIRONMENT

- Durable in any surroundings, especially in adverse weather conditions (high levels of humidity, salinity, pollution, etc.)
- Made with corrosion-proof materials: technical polymers with a proprietary formula and stainless steel
- No mixed metals (eliminates galvanic corrosion)
- Casing resistant to damage from continuous exposure to UV rays.
- IK10 anti-vandalism rating, extremely durable and impact resistant.
- Operate in extreme temperatures: from -30ºC to 40ºC
- Immune to common mode surges.

100% ELECTRICAL SAFETY

- Casing made from a non-conductive technical polymer
- Electrical insulation: Class II+ and SELV
- Automatic electrical disconnection when opened
- Proprietary ultra-safe LED driver: IP67 casing, ENEC certified with integrated surge protection (10KV)



IMPECABLE GESTIÓN TÉRMICA

- Exclusive dissipater made from a proprietary technical polymer, optimized to guarantee high thermal conductivity
- Enclosure with high thermal conductivity which maintains an optimal temperature within the lighting fixture
- Electronics compartment separated from the LEDs
- Pressure compensator which minimised the absorption of dust and humidity
- Thermal protection of the electronics, maximizing the light's lifetime (L90B10 >100,000h at 25ºC) and improving its efficiency (up to 160 lm/W)

EASY INSTALLATION AND MAINTENANCE

- Cover can be removed and fixed in place without tools
- Self-cleaning: the grooves on the top channel rain, helping to clean the fixture
- All components can be replaced quickly on-site
- Light with an easy-to-handle size
- Single arm for horizontal and vertical installation, with an adjustable angle (±15°)

A WORLD OF POSSIBILITIES...

- Standard two-tone, with finish options in any color from the RAL range
- Wide selection of color temperatures (3SCDM)
- Different types of optics:CRI>70, with CRI>80 and CRI>90 available to order
- Intensity regulation or configurable dimming

CONNECTIVITY AND SENSORS (BY RANGE)

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A BETTER WORLD A GREENER WORLD

CiES

CIES RESPECTS THE ENVIRONMENT AND FOLLOWS THE 3 R'S

REDUCE
Our production process has a carbon footprint which is 50% lower than that for equivalent products in aluminum.

RE-USE
The lighting fixture can live on in the infrastructure, thanks to sustainable replacement of the LED driver and module which supports the circular economy.

RECYCLE
The lighting fixture is made up of 100% recyclable materials.

SUPPORTING THE QUALITY OF THE NIGHT SKIESO

CIES helps preserve a starry sky and limits light pollution. Thanks to its responsible design and the optics used, it minimizes light emissions to the upper hemisphere (<0.1%).

Because of this, the system complies with the Canary Islands Institute of Astrophysics (IAC) requirements, and is suitable for use in areas with special protections against light pollution.

URBAN AND INTERURBAN **CIES**

ECOLOGICAL LIGHTS MADE OF TECHNICAL POLYMER
INDESTRUCTIBLE IN ANY SETTING

CIES is the perfect lighting system for urban and interurban street lights, as it combines design, durability, and technology.

Its specialized optics offer high performance for public lighting, such as highways and streets. Additionally, it offers series that are ready to connect with tele-management nodes, thereby optimizing energy efficiency, improving perception of the service, and facilitating integration in Smart City environments.

INOX

Modern, functional style:

Practical design in a high-tech polymer that combines the convenience of tool-free installation and maintenance with excellent durability in extreme environments

CO_2

Committed to the environment:

From its manufacture in 100% recyclable materials in a process that minimizes its carbon footprint, to its high energy efficiency and outstanding durability

Unique, customizable design:

Customized configuration of different lighting parameters to adapt to any situation, including the optics, color temperature, light color, and more

Maximum electrical protection:

The insulated casing and automatic shut-off system when the light is opened ensure electrical safety during maintenance tasks

CIES offers several series, which are differentiated by the type of lighting management, with different operating modes to manage turn-on and shut-off or the level of intensity.

E-SERIES

Standard lights with two adjustment options (by reference): With ON/OFF control, With pre-programmed dimming

Ref. 600600 CIES E 12 LED 39W

Ref. 601600 CIES E 24 LED 53W

E4-SERIES

Includes certified, programmable D4i drivers, with DALI2 communication, CLO regulation, and programming by NFC

Ref. 600602 CIES E4 12 LED 40W

Ref. 601602 CIES E4 24 LED 70W

T-SERIES

It allows the lights to be programmed in a group from the electrical panel (Ready2Mains), has CLO regulation, and programming by NFC

Ref. 601604 CIES T 24 LED 70W

Ref. 600604 CIES T 12 LED 40W

N-SERIES

Ready to connect to ANSI C136.41 NEMA NBIoT nodes, thereby integrating into tele-management environments with sensors

Ref. 600800 CIES N 12 LED 39W

Ref. 601800 CIES N 24 LED 53W

Ref. 601802 CIES N 24 LED 70W

Z-SERIES

Ready to connect to Zhaga Book 18 NBIoT nodes, thereby integrating into tele-management environments with sensors.

Has certified D4i drivers

Ref. 600902 CIES Z 12 LED 40W

Ref. 601902 CIES Z 24 LED 70W

Responsible lighting:

Helps preserve the night sky and quality of the night, lighting only areas of interest to limit light pollution as much as possible

URBAN AND INTERURBAN **CIES**

CONNECTED LIGHTING

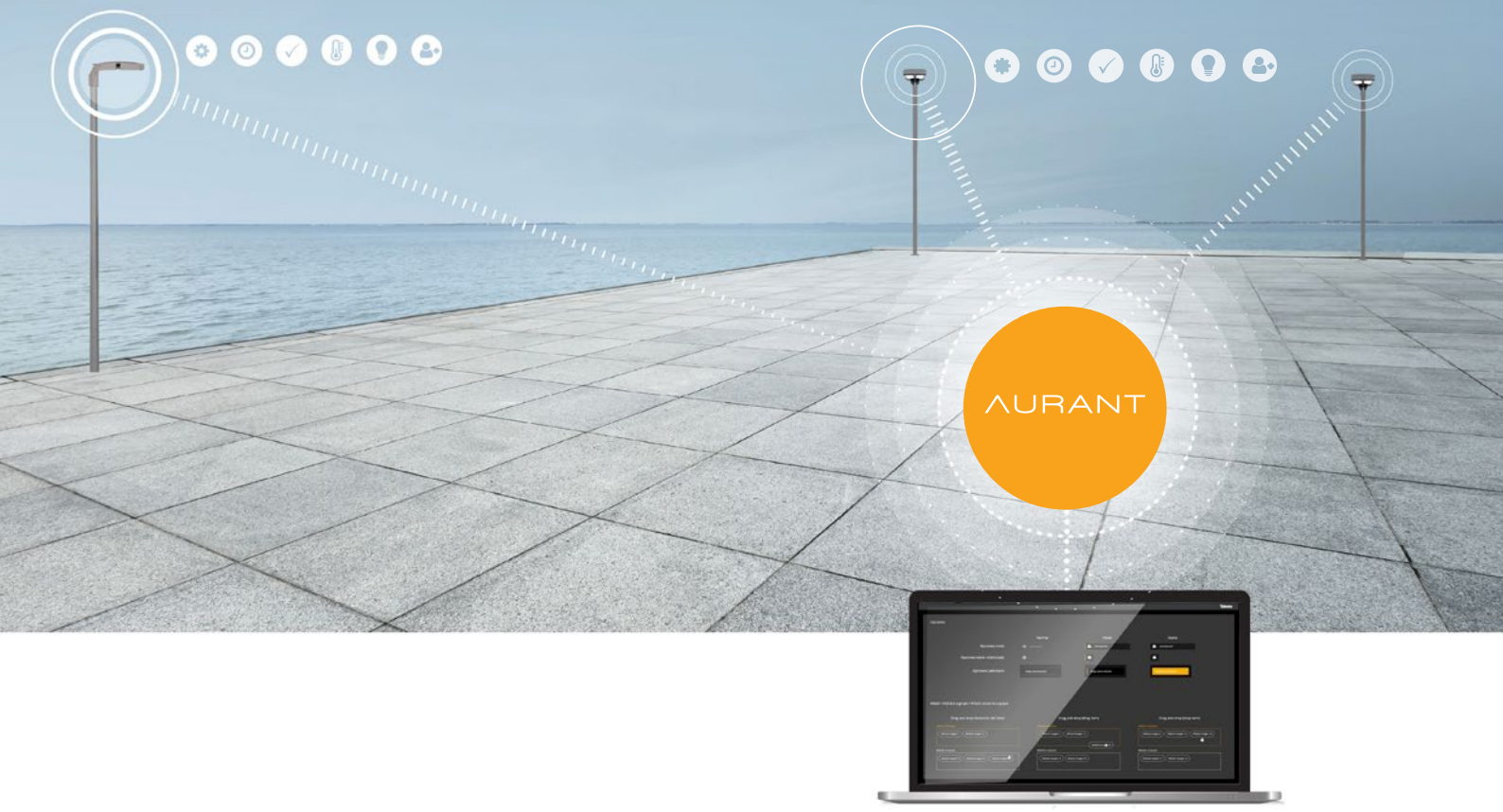
MAXIMIZES THE PERFORMANCE OF THE LIGHTING NETWORK THANKS TO TELE-MANAGEMENT

CIES includes the N and Z series, which are compatible with installing NBIoT nodes, providing connectivity and smart capabilities to the lighting system.

The nodes communicate bi-directionally with the Aurant Lighting Module platform, controlling each light remotely and obtaining operations and status data in real time. Smart lighting management reduces spending and improves the quality of the service, as the lighting adapts to the real needs of each part of the city.

Our most complete tele-management solution includes the infrastructure (IaaS, SaaS, security, etc.) and the service (connectivity, support, maintenance, etc.). A Full Service solution to take the first step toward building a Smart City.

Ref. 694801 Full Service Remote Management for LED Lightning Module. Annual fee for luminaire



Aurant has an intuitive, **user-friendly interface**. Below are some of its more advanced functions:

MONITORING DASHBOARD

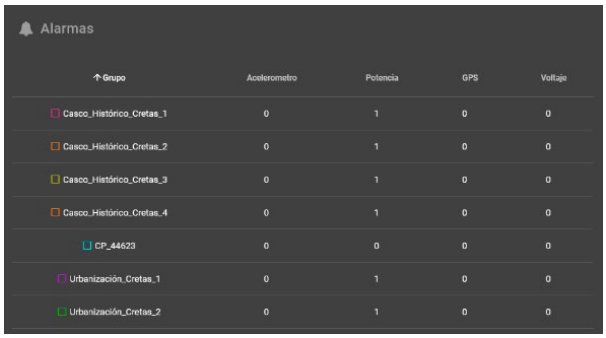
Customize your dashboard to take care of every key point in the system. Having all the information organized and centralized in just one interface makes it easier to make decisions and to obtain the desired results.

Reduce consumption, optimize savings and enhance your network efficiency.

LIGHT CONTROL MAP

Monitor the whole inventory of connected luminaires – automatically geopositioned. Each light point features a color to quickly detect incidents.

Operate straight over nodes or groups of luminaires by just clicking them.



ALARM PANEL

Receive alarms in your phone and address any failure as soon as possible.

Generate custom reports including performance data about each node.

Configure customized notifications to monitor the status of the lighting network.

ADVANTAGES OF TELE-MANAGEMENT WITH AURANT:

It increases savings:

Gradual regulation of lighting and on/off control for each light allow cities to improve energy efficiency and reduce costs

It improves the service:

Light where you need when you need it, reinforcing levels in specific points of the network depending on citizens' real needs

It optimizes maintenance:

Monitoring the network ensures early detection of any malfunction, allowing cities to respond quickly to any incident

It promotes sustainability:

Responsible lighting with smart controls limits light pollution, protecting the night sky and biodiversity

CIES CROSSWALK

SMART LIGHTING
TO PROTECT CITIZEN SAFETY

CIES Crosswalk is the smart lighting solution for crosswalks designed to improve road safety. It combines specific optics for crosswalks with motion sensors. When a pedestrian is detected, the light in the crosswalk increases, ensuring visibility and reducing the risk of accidents.

It also contributes to public safety when installed on streets that see low foot traffic at night. The lighting level increases when a person is detected, improving visibility and making it easier to spot potential dangers, acting as a crime deterrent.

Additionally, the lighting level is lower when no movement is detected, optimizing energy savings and protection for the environment, without compromising citizen safety.

Ref. 600992 CIES Crosswalk 12 LED 40W

Ref. 601992 CIES Crosswalk 12 LED 70W

It reinforces road safety:

The system reduces the risk of accidents by improving pedestrian visibility in crosswalks

It improves public safety:

The light increases when pedestrians are detected on streets or paths with little foot traffic to improve visibility, detect dangers, and reduce the likelihood of attacks, robberies, and damage

Precise lighting:

The special optics ensure the entire crosswalk area and the pedestrian are lit. They are available in right and left so they can be installed on either side of the crosswalk, making use of existing lampposts

Sensor synchronization:

The sensors communicate with one another to simultaneously illuminate a crosswalk, or progressively light a path

Customized programming:

The sensors' parameters can be configured, such as response time, the time a light remains lit at 100%, and communication between sensors

Variety of colors:

It highlights the presence of streetlights for crosswalks, as they stand out in a color different from the rest of the lighting

Profitability:

The motion sensors regulate the level of light based on real needs to increase energy and economic savings and obtain a quick return on investment

CIES CROSSWALK

SENSOR-BASED LIGHTING

COMPLETE THE CIES CROSSWALK SOLUTION WITH MOTION SENSORS

CIES Crosswalk has a Zhaga connection interface which connects to the motion sensor on the bottom of the light to regulate the level of light when pedestrians are detected. Thanks to the sensor's high sensitivity, it is capable of detecting people up to 14 m away, notifying the light to modify its lighting level.

The motion sensor includes Bluetooth technology that allows it to communicate with nearby sensors, up to 35 m away. Thus, crosswalks are lit from both sides simultaneously, providing light over the entire pedestrian area.

Types of sensors by application:

Ref. 693021 Motion and Light Sensor 180º

Ref. 693022 Motion and Light Sensor 360º

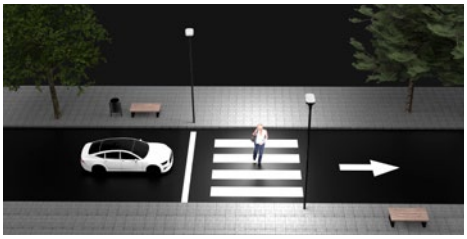
CROSSWALKS:

Detection angle of 180º, oriented toward the back part of the light to act when there are pedestrians on the sidewalk, without being confused by passing cars.

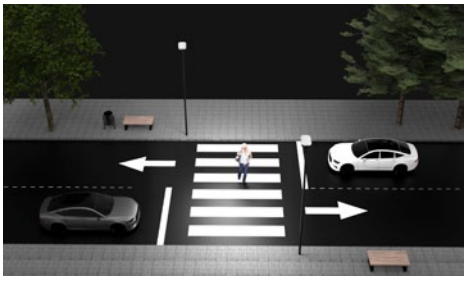
PATHS AND PEDESTRIAN AREAS:

Detection angle of 360º, to detect pedestrians in all directions.

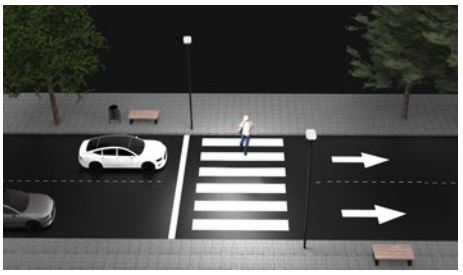
USAGE EXAMPLES



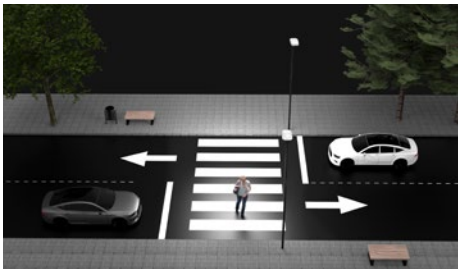
One lane and one direction. Both optics facing the left.



Two lanes and two directions. Both optics facing the left.



Two lanes and one direction. Both optics facing the left.



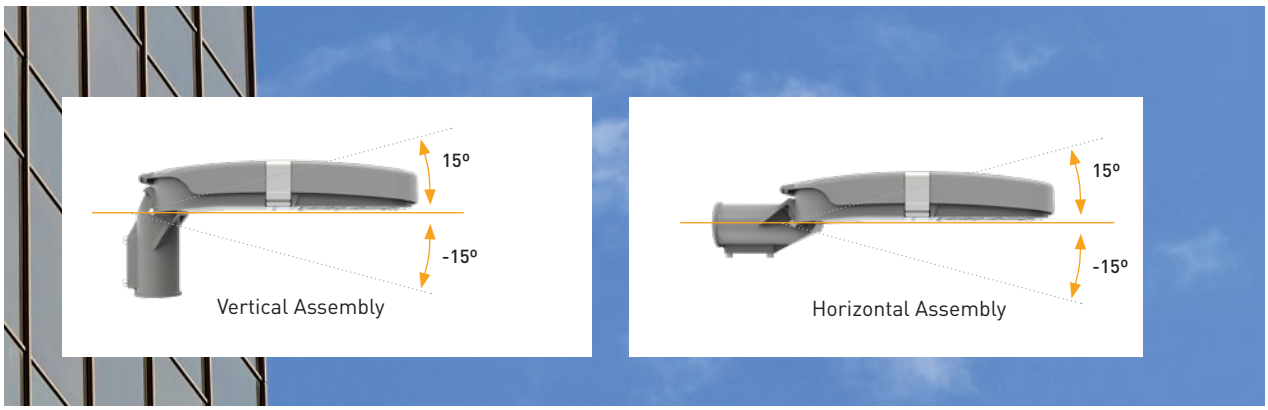
Two lanes and two directions. One optic facing the left and the other the right

Progressive lighting. Asymmetric optic for walks.

ACCESSORIES TO COMPLETE THE SYSTEM

SUPPORTING ARM

- A single accessory included for horizontal and vertical installation
- Very strong and durable: made from a specially-formulated technical polymer
- Rotate the lighting unit up to 30º
- Fits posts, columns, and arms with Ø 42 to 60 mm
- Colour can be customised on request



Adapters available for poles and columns of different diameters:

Ref. 690010 Pole Adapter Ø30-40mm

Ref. 690012 Pole Adapter Ø42mm

Ref. 690013 Pole Adapter Ø76mm

Ref. 690021 Column Support Ø76mm


690010/2/3


690021

SURGE PROTECTOR MODULE

- Accessory for protection against extreme surges (up to 10KV) produced by electrical storms
- Compliant with standards UL1449 and IEC61643-11 for Class II
- Reduces maintenance costs and increases the product's lifetime
- Supports a maximum current of 10,000 A

Ref. 692101Surge protection device Class II

CYLINDRICAL COLUMNS

- Columns for installation on posts, available in different heights: 4, 5, 6, 7, 8 and 9 m
- Manufactured in glass fiber: an insulating material that is immune to rust and corrosion, anti-magnetic and fire-resistant
- Very lightweight, which facilitates installation and transportation and reduces carbon emissions
- 100% electrical safety on the entire light structure
- Color injected during manufacturing to achieve excellent durability without deterioration

Ref. 690604 Fiberglass Column 4m

Ref. 690605 Fiberglass Column 5m

Ref. 690606 Fiberglass Column 6m

Ref. 690607 Fiberglass Column 7m

Ref. 690608 Fiberglass Column 8m

Ref. 690609 Fiberglass Column 9m

WALL SUPPORT

- Minimalist support for installing the light on walls or facades
- Highly resistant and durable: made from 316 stainless steel
- Makes good use of space: no column or post required to affix the light

Ref. 690020 Wall support

TIMELESS VALUES
FOR PROFESSIONAL LED LIGHTING

Combining their extensive experience in electronic technology, metal structure manufacturing, and polymer component injection, Televes offers a complete catalogue of indoor and outdoor solutions within the Televes Professional LED Lighting range. Televes' luminaires allow for energy savings of up to 80% as compared to conventional lighting systems. They stand out for their first-class engineering and their excellence in thermal management that ensure a long maintenance-free working life.

Televes Corporation is at the heart of a group of technological companies representing global leadership in design and development of equipment for all types of telecom infrastructures in cities, buildings and homes.

Televes Corporation groups more than 20 companies that work together pursuing the common goal of designing, developing and manufacturing in Spain high quality products and solutions for various sectors in the field of telecommunications, such as transmission and distribution of television services, implementation of multiservice networks in Hospitality, development of advanced eHealth platforms, as well as integrating solutions for professional LED lighting projects.

Televes Corporation reaches over 100 countries directly through its 11 international subsidiaries (Spain, Portugal, France, United Kingdom, United Arab Emirates, Italy, United States, Germany, China, Poland, Russia, Scandinavia) and through an extensive network of professional distributors.

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