DEMAND MORE THAN JUST LIGHT FROM YOUR STREET LIGHTING
YOUR SMART TERRITORY THANKS TO IMPROVED STREET LIGHTING

Dynamic lighting (interaction, depending on traffic density), variable-message signs, traffic signals, PA systems, market plots, water distribution stations, CCTV cameras...

...are services for citizens and sources of security and functionality for businesses (city centre appeal, quality of service, information) to live the city on a daily basis.

Today, each of these services can be connected to the lighting network or operate from their own dedicated power grid. Tomorrow, we can offer new services to citizens and encourage new uses.

That’s the whole point of the smart city, built on an improved street lighting network. In order to connect third-party services to the street lighting network and offer a range of services that are adapted to new urban uses, a 24-hour permanent power supply is essential. This power supply will be sourced from the street lighting network in your community.

Tomorrow, citizens will be able to access the Internet by connecting to their city’s WiFi, or recharge their electric bikes by connecting to a lamp post, as well as benefit from many other uses that are yet to be imagined.

Sofia can recharge her electric bike via her city’s lighting network, and then leave to meet her friend.

Morgane can walk down the street confidently – the CCTV camera in her neighbourhood is connected to her city’s lighting network 24 hours a day, and Nestor benefits too.

At the market, Adam can use his city’s lighting system to make his candy floss, to the delight of all the locals with a sweet tooth.

Thanks to their city’s lighting network, Jack and Julia can surf the web on their WiFi-connected mobiles and check the showing times of the next film being screened at the cinema.
This network covers the entire territory. The number of light points is in line with the frequenting of living areas. The LED revolution represents the 1st step towards energy reductions. We can go even further by introducing smart street lighting.

Renovating lighting infrastructure and making it intelligent is an important driver for operational savings. These savings allow communities to invest in their smart city.

The existing electricity grid serves as a carrier for the distribution of energy, meeting needs in the best way possible: powering communication networks (WiFi, LPWAN, 4G/5G relays), electric charging stations (USB, vehicle, bicycle), noise sensors, pollution sensors, weather sensors… and other applications that are yet to be imagined.

TEGIS LIGHTING PLUS 24/7
INTELLIGENT STREET LIGHTING MANAGEMENT ECOSYSTEM FOR 24-HOUR OPERATION

Transform any street lighting network into a permanent supply grid for new services, in a simple manner and without any civil engineering:
- By integrating a Tegis control unit into the street lighting cabinet
- By integrating TNX4 nodes and the TNX associated relay into the candelabra masts

Sustain and adapt your infrastructure to the pace of your changing needs:
- Either all cabinets or only few of them operate 24/7
- Intelligent management of public lighting can easily evolve into 24-hour intelligent management of street lighting and associated third-party services

Central and monitor the cabinet, lighting points and third-party services, powered by the street lighting network:
- Remote configuration on the LX Connect interface
- Dimming control at light points - DALI
- Third-party services – dry contact
- Programming of groups of light points or third-party services independently of power cabinets
- Real-time monitoring of each light point and its associated third-party service
- Fault analysis

Collect and analyse the power consumption of the cabinet, light points and third-party services, powered by the street lighting network:
- Electrical measurements of light points and third-party services in snapshots, daily reporting of consumption indexes for light points and third-party services
- Energy counting
- Analysis of consumption distribution between light points and third-party services

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Our expertise:
- 40 years’ experience in electrical connection and protection
- 20 years’ experience in smart management

Street lighting, the Keystone of your Smart City
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The LX Connect platform is easy to navigate, giving access to the control configuration, monitoring, consumption reporting and installation analysis, from the cabinet to the light points and associated third-party services.

The LX Connect is available with a web interface that gives automatic access to the latest features.

The LX Connect is scalable with a secure environment.

To third-party services:
- Consumption measurement
- Distribution of consumption

Every node is a transmitter, receiver and repeater. 2 DALI outputs, up to 4 lighting fixtures per DALI output.

Energy measurement:
- Class 0,5 for light points
- Class 1 for third-party services

Operating temperature:
- -25 to +55°C

Operating voltage:
- 230 V

Certification:
- TNX24 state light

Distance between 2 nodes: 150 m

Breaking power:
- 2 A – 230 V

Dimensions in mm (W × H × D):
- 36 × 85 × 43 – 2 modules/DIN Rail
- 18 × 85 × 43 – 1 module/DIN Rail

Energy measurement:
- Class 0,5 for light points
- Class 1 for third-party services

Standby power consumption:
- 0.55 W

Breaking power:
- 6 A – 230 V

Dimensions in mm (W × H × D):
- 18 × 85 × 43 – 1 module/DIN Rail

Certification:
- Entry 0–12 V
- 1 ON/OFF 230 V dry-contact output, to power light points
- 1 ON/OFF 230 V dry-contact output, to power third-party services

Refer to TNX24 datasheet for max. Inrush current.
PAPER FROM SUSTAINABLY MANAGED FORESTS.