TLACS-A

Adaptive lighting control system for area lighting

- For improved safety and security
- Perfect for wave-blocking materials environment
- Self-commissioned
- Remote access via an intuitive user interface
- Smart City ready

NYX HEMERA Technologies Inc.

Adaptive Power Line Lighting Control

• Nyx Hemera Technologies' TLACS-A

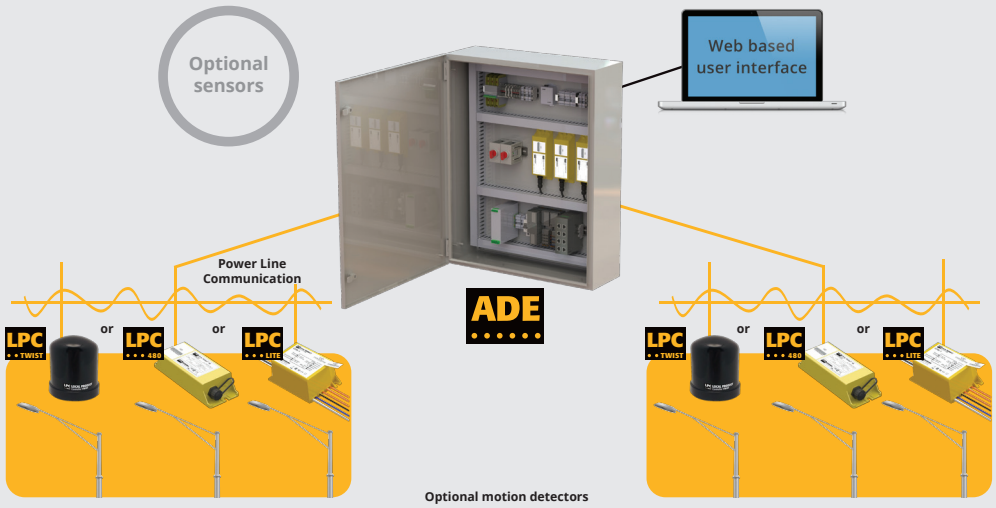
TLACS-A is a turnkey solution for controlling and monitoring any outdoor area needing a higher level of safety and security and seamless communication in infrastructures with concrete, steel structures, or other materials blocking wireless communication. The TLACS-A design performs where wireless communication technologies are not always effective, as this is often the case in sites like detention centers, seaports, power plants, refineries, parking lots, and other remote areas where wireless networks are not accessible.

Using power line communication for the control and monitoring, TLACS-A offers a higher level of security since it is hardly hackable remotely. With individual lighting control and monitoring, TLACS-A is the perfect solution for areas where security is an issue.

Easy to operate and install, it doesn't require any digging to install control wires. Any electrical contractor can perform the installation and commissioning as it is a plug-and-play solution with no software configuration required.

An intuitive and customized user interface is available to control and monitor the status of the lighting system.

TLACS-A



The TLACS is an intelligent addressable lighting control system using advanced power line communication to control and monitor the lighting system status. Already used in over 100 infrastructures worldwide, TLACS-A is a simplified version adapted for the specifics needs of outdoor area lighting. It uses the wires that feed the luminaires to achieve two-way communication.

There are two main modes of operation. In automatic mode, the system controls the light intensity based on a set of configuration rules such as a time-based schedule, motion detection mode, outdoor luminance sensing, etc. In the manual mode of operation, the light intensity is upon commands from designated engineering stations.

The system shall switch ON, DIM, or turn OFF every luminaire. At least 12 stages of dimming/ switching shall be provided to allow adjustment to the lighting.

The TLACS-A is mainly composed of an Area Dimming Enclosure (ADE) and a Local Product Controllers (LPC) that can be installed into the luminaire pole (LPC 480) or on a 7-pin socket (LPC-Twist). It shall be able to perform the following functions (as a minimum):

- Communicate over power line between the ADE and LPCs
- Upgrade the firmware through the communication network
- Have a configurable failsafe switching mode (on/off);
- Control up to 256 LPCs per ADE
- Have a communication failure detection
- Adapt the luminaire output to compensate for the Light Loss Factors (LLF)
- Can work in 120 – 480 VAC powerline network

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Smart Area Lighting

Increased security, monitoring, energy management in sensitive area with TLACS-A.

Nyx Hemera Technologies

Nyx Hemera Technologies develops and markets lighting control systems for road tunnels, underpasses, and areas. For almost 15 years, the TLACS has been installed in over 100 infrastructures with major luminaire manufacturers worldwide. In addition, Nyx Hemera Technologies offers turnkey services – from feasibility analysis to after-sales service.

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