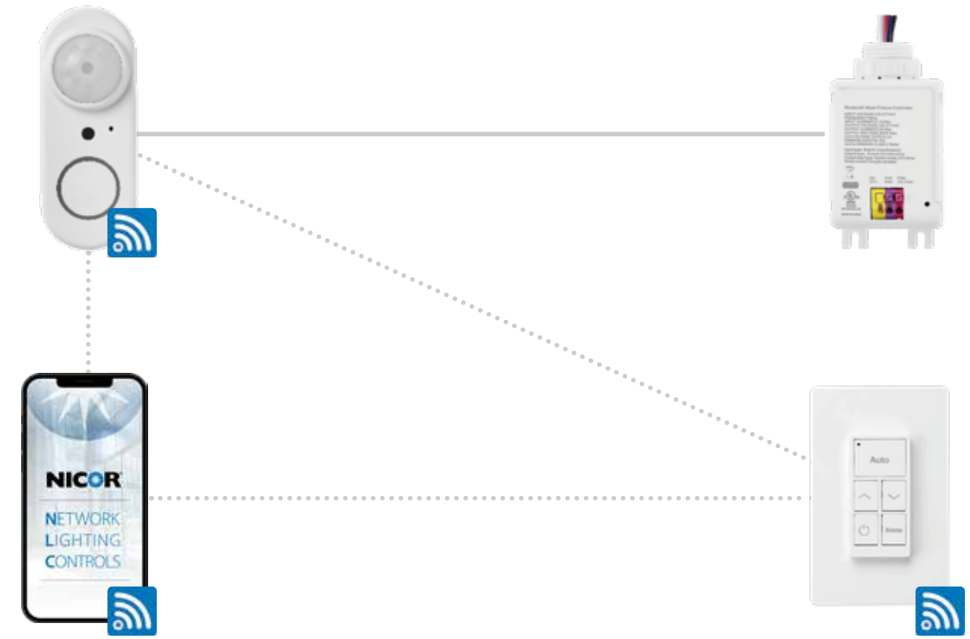
NICOR®

NLC Brochure

Download

NICOR's New NLC App



NICOR's Network Lighting Controls (NLC) is a wireless network of components comprised of passive infrared (PIR) motion/daylight sensors, load controllers, power packs, wall controls and system nodes. Each component utilizes Bluetooth Low Energy (BLE) Mesh to remotely control and operate luminaires separately or together as a zone. The NLC system can control up to 100 luminaires per zone across multiple rooms with NICOR's NLC app, available on major app marketplaces.

Commercial Grade Lighting Controls Systems for Everyone

Take Control

NICOR's NLC app provides an intuitive, easy-to-use interface to control the full assortment of NLC components. Available on Android and iOS.

System Ready

NICOR's Network Lighting Controls system is designed with simple scaling solutions in mind. All devices are compatible with new and existing framework.

Benefits

Get control of your energy usage! Create comfortable, well-lit spaces with significant energy savings.

Stay Protected

The NLC system achieves UL Gold (1376) level protection and operates on a localized data-encrypted mesh network for added security.

Features

With daylight harvesting, occupancy settings and scheduling built in, energy savings come standard.

Flexible Solutions

The NLC system features simple scaling solutions to easily add controls to new or existing networks with downward compatible software updates while maintaining seamless, uninterrupted operation.

NLC Sensors

Energy saving sensors offer daylight harvesting, occupancy settings, and scheduling

NLC Sensor Optics

Each Fresnel lens provides 360° of high-density coverage at various heights.

NLC Wall Switches

Wireless, battery-powered remote control of NLC enabled luminaires as a handheld or wall switch.

NLC Power Supply's

Inline and wireless Bluetooth power supply's install directly to any 1/2-inch knockout

Easily control lighting **from a single fixture to an entire building**

NICOR's NLC lineup includes a variety of components, each constructed to a higher standard to provide reliable and long-term lighting control solutions. The NLC system is designed to accommodate any framework with the ability to scale up from individual luminaires to entire establishments. Occupancy sensors, power packs, and wall switch controls can be added to pre-existing luminaires to provide wireless control and automation.

The Bluetooth wireless mesh network allows for enhanced scalability as each individual component acts as a node, further extending the wireless capability of the system. Zones and Groups can be created to organize and control devices on multiple luminaires across rooms or sections. NLC systems can be scaled up to support up to 100 devices per group, with unlimited regions in the NICOR NLC App.

Maximize **Control** and **Efficiency**, at your fingertips

By adding a simple Energy Monitoring Dongle (consult factory), energy usage can be captured and monitored system-wide down to individual luminaires. The captured data can then be exported to a CSV file for further analysis.

Get control of your energy usage! Create comfortable, well-lit spaces with significant energy savings. With daylight harvesting, occupancy settings, and scheduling built into each NLC sensor, energy savings come standard.

Safe and **Secure Commissioning** with **NICOR NLC App**

Device Security
Uses **128-bit encryption** for its secure mesh network.

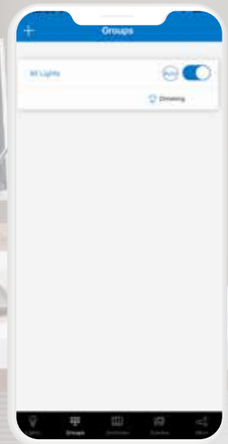
Easy Updates
Wireless technology allows you to **securely update your system**.

Stay Secure
All NLC components meet UL's Gold level cybersecurity standards.

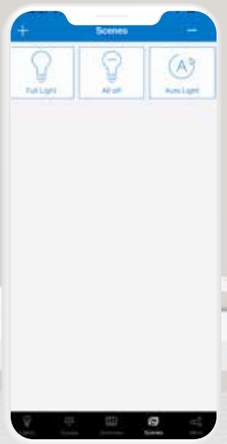
The NLC system meets UL's Gold (1376) level IoT security rating to protect each connected device on the network. The Bluetooth Low Energy (BLE) Mesh acts as a localized network for superior protection from outside sources. Each device on the Mesh network acts as a node on the system acting independently from one another for added security. Data transmission between devices is secured with 128-bit data encryption protocols, eliminating the need for a hub, gateway, or internet connection. Every NLC component is inherently secured right out of the box; no work or setup required. Whether you're in the design or remodel phase, NICOR's Network Lighting Controls system is designed to fit any new or existing framework with added security measures.

Limitless Configurations

Zones

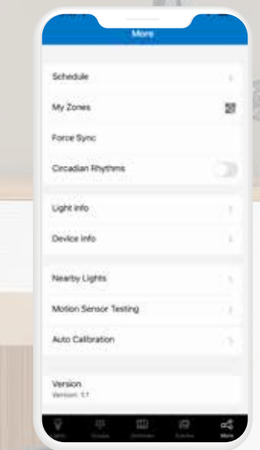


Groups



Scenes

Occupancy/Vacancy



Daylight Harvesting

Task/Trim Tuning

Set Schedules

Limitless Configurations
Each individual NLC luminaire or device acts independently from the next. This allows for a limitless combination of settings and features to meet any application requirement.

Zones
NLC Luminaires can be grouped together in unlimited configurations within zones. The NLC Network can accommodate unlimited zones with the ability to scale up to provide coverage for entire sites. Each zone can control up to 100 devices.

Groups
Create groups of luminaires or devices that share similar settings to quickly configure rooms or spaces. Integrate groups within zones for easy scaling with no limit to the number of groups that can exist.

Scenes
Create preset lighting scenes within the NLC app to apply specific brightness and color temperatures stored in the NLC network. Scenes can be controlled with the app or NLC connected wall switches.

Occupancy/Vacancy
Completely adjustable, dual-time delays with light level reduction can help save energy in unoccupied rooms/zones. Settings can easily be adjusted using the NLC App.

Daylight Harvesting
Continuous dimming technology automatically adjusts light levels while factoring in the natural lighting in the space. This helps provide energy savings while reducing the need for artificial lighting during daylight hours.

Task/Trim Tuning
Light levels can be adjusted to match predetermined visual requirements of a given space. Each NLC enabled luminaire can be adjusted to limit its maximum lumen output to save on energy costs.

Set Schedules
Set-up your lighting system according to your schedule. Create simple on/off automations at certain times of the day or week to eliminate unnecessary energy consumption.

Integrated Sensors

NLCSPIHW1WH

The NLCSPIHW1WH is an integrated low-voltage Bluetooth wireless PIR/Daylight sensor. It provides 360° coverage at heights ranging from 8 to 15ft with a coverage diameter of 48ft (when mounted at a 15ft height). The NLCPS1 can be secured directly to any 1/2-inch knockout using the threaded nut included.

NLCSPFW1WH

The NLCSPFW1WH is an integrated low-voltage Bluetooth wireless PIR/Daylight sensor. It provides 360° coverage at heights ranging from 15 to 18ft with a coverage area extending out to 32ft (when mounted at a 18ft height). The NLCSPFW1WH comes factory installed on mid-range luminaires. Pair it with the NLCPS1 as a power supply/fixture controller(integral to luminaire from factory).

Ceiling Mount Sensors

NLCSPCWNBWH

The NLCSPCWNBWH is a low-voltage Non-Bluetooth PIR/Daylight Sensor. It provides 360° coverage at heights ranging from 8 to 15ft with a coverage diameter of 48ft (when mounted at a 15ft height). For use with NLCPS2 Only.

NLCSPCW1WH

The NLCSPCW1WH is a low-voltage Bluetooth wireless PIR/Daylight sensor. It provides 360° coverage at heights ranging from 8 to 15ft with a coverage diameter of 48ft (when mounted at a 15ft height).

NLCSPCMOUNT1

The NLCSPCMOUNT1 is a recessed ceiling mount designed to work with NICOR's NLCSPCW1WH wireless PIR/Daylight sensor. The adjustable spring-loaded retention tabs provide a secure fit within a 1.60" diameter cut-out.

External Sensors

NLCSPEW1WH

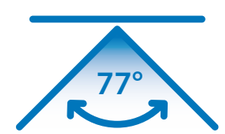
The NLCSPEW1WH is a line-voltage Bluetooth wireless PIR/Daylight sensor. It operates at 10A (max) load at 120/277V to control luminaires. It provides 360° coverage at heights ranging from 8 to 40ft and installs into any 1/2 knockout wired directly to the luminaire or junction box nearby.

NLCSPEJ1WH

The NLCSPEJ1WH is a low-voltage Bluetooth wireless PIR/Daylight sensor. The integrated 3.5mm jack is designed for easy installation with socket sensor enabled luminaires. It provides 360° coverage at heights ranging from 8-40ft. Setup and commissioning requires the NICOR NLC mobile app (Android/iPhone). Lens options sold separately.

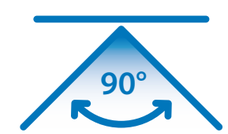
Sensor Optics

NLCLHN1WH



Beam Angle

NLCLHW1WH



Beam Angle

NLCLMW1WH

Beam Angle

The NLC Occupancy Lenses are designed to work with NLC sensors. Each Fresnel lens provides 360° of high-density coverage at various heights. Each sensor lens can simply twist and lock into NICOR compatible sensor modules, making it ideal for manufacturing facilities, warehouses, other large installation spaces.

Power Supply's

NLCPS1

The NLCPS1 is an inline power pack designed to provide low-voltage (12V) control of NLC luminaire sensors. It operates at 10A (max) load at 120/277V and provides 0-10V dimming capability to luminaires. The NLCPS1 can be secured directly to any 1/2-inch knockout using the threaded nut included.

NLCPC1

The NLCPC1 is a Bluetooth wireless zone and plug load controller. It operates at 20A (max) load at 120/277V to control luminaires and plug loads while providing 0-10V dimming capability to luminaires. The NLCPC1 can be secured directly to any 1/2-inch knockout using the threaded nut included.

NLCPC2

The NLCPC2 is a Bluetooth wireless zone load controller for use with the NLCSPCWNBWH NON-Bluetooth ECO-Sensor. It operates at 10A (max) load at 120/277V to control luminaires while providing 0-10V dimming capability to luminaires. The NLCPC2 can be secured directly to any 1/2-inch knockout using the threaded nut included.

Accessories

Wall Switches

The NLC Bluetooth Wireless Wall Switch Series offers two unique switch designs in 3-button and 5-button configurations. Both provide wireless remote control of NLC enabled luminaires as a handheld device or wall-mounted switch. NLC Wireless wall switches are battery powered by a standard CR style batteries. Setup and commissioning requires the NICOR NLC mobile app available on Android and iPhone(iOS) Devices. For wall mounting, add the NLCWP wall switch base with faceplate.

Mounting Accessories

Optional low-voltage, in-line socket mounts are available to provide mounting capability for compatible sensors requiring a 3.5mm jack. The H12VSOCKET can be secured to any ½-inch knockout on the luminaire or nearby junction box. The adjustable mounting arm can be added to the socket base to provide adjustability up to 90°.

Where to Start

1

Preparation Work

- Define Control Narrative and SOO
- Install lights and test power

2

Set Lights, Groups and Scenes

- Connect lights to app
- Create Groups/Generate QR Code
- Group lights together
- Create Scene Settings
- Add a switch control
- Set switches and timers

3

Set Sensor Lights

- Fix sensor parameters
- Configure light linkage levels
- Set Auto Light levels

4

Project Delivery

- Share QR Code

Need assistance in determining the best solution or need a layout of the lighting controls on your plans?

If your project requires a lighting controls layout our application engineers can provide recommended solutions and floor plans showing what NLC enabled luminaires and control components to use for your project. To request assistance visit www.NICORLighting.com/Network-Lighting-Controls and submit a Lighting Controls Layout Request with either .PDF or .DWG drawings of the space. For questions contact nlc@nicorlighting.com

The Making of a Layout

Our application engineers will help you satisfy your customer's requirements; from specific lighting control solutions to working space requirements and more. Your customized report provides an in-depth look at how NICOR's NLC solutions are the perfect fit for any project.

- Exporting layout drawings as .DWG or .PDF
- Layouts showing placement on drawings, descriptions of products used with quantities
- Solution system specifications provided
- Turnaround in 1–2 days

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Warehouse Locations:

Albuquerque, NM
Atlanta, GA
Buford, GA
Detroit, MI
Folcroft, PA
Roseville, CA

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LIT-NLC-BR 20230403