

The Next Generation of Lighting Control









Multiple Solutions, One Platform

NX Distributed Intelligence™ lighting control platform utilizes a Distributed Network Architecture (DNA) that connects intelligent devices including luminaires, controllers, panels, occupancy sensors, photocells, wall switches and dimmers, creating a system with an unmatched level of intelligence, simplicity, scalability and versatility.



Truly Distributed

The Hubbell Control Solutions NX Distributed Intelligence™ lighting control platform is the first of its kind to utilize a distributed network architecture (DNA) which provides users with unmatched system reliability, scalability and simplicity.



Simple

NX provides nearly unlimited lighting control design possibilities and easily self-configures, automatically meeting energy code requirements as devices are connected.



Scalable

The NX platform is designed to scale from a single standalone room to complete networked building with a comprehensive portfolio of panel, room-based and in-fixture controllers, sensors and user interfaces as well as support for Building Automation Systems.



Versatile

NX supports indoor and outdoor applications, wired, wireless and hybrid networked lighting control deployments, and enables emerging applications such as Hubbell Lighting's SpectraSync™ color tuning technology.



In-Fixture Control



- Luminaire-integrated design
- Out-of-the-box operation
- User-friendly Bluetooth® App

Room Control



- Easy plug-in installation
- SmartPORT™ auto-configuration
- · Adaptive energy efficient operation

Networked Building Control



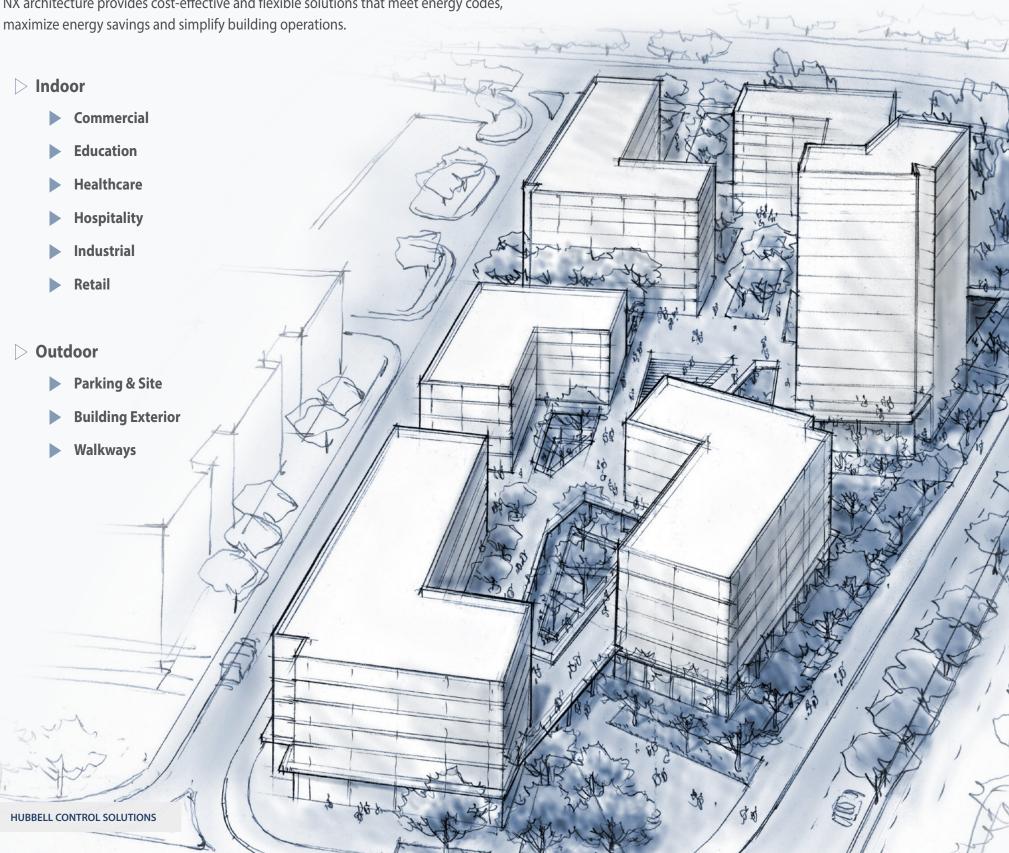
- Networked solution
- Control and monitor software
- Integration with BAS

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NX Delivers Solutions for Any Space or Budget

NX Distributed Intelligence™ platform offers lighting control solutions for virtually any application. Whether indoor or outdoor, wired or wireless, the distributed nature of the NX architecture provides cost-effective and flexible solutions that meet energy codes, maximize energy savings and simplify building operations.





Commercial

- Standalone or networked device and room level controls
- Plug and play vacancy control meets energy codes
- Open and closed loop daylight harvesting options



Education

- Accommodate special classroom lighting control requirements
- Programmed continuous color tuning when combined with SpectraSync™ enabled luminaires
- Single or multi-zone daylight harvesting



Healthcare

- Meet complex switching requirements for patient rooms
- Integration with low voltage bed controls
- Continuous dimming and color tuning options



Hospitality

- Continuous dimming and color tuning of LED luminaires
- Manual, scheduled, and preset scene activated dimming options
- Dim to Warm LED luminaire control is ideal for dining applications



Industrial

- Integrated fixture controls simplify deployment
- Accommodates high mounting heights found in warehouse and manufacturing applications
- Wireless mesh capability enables networking and building wide integration



Parking and Site

- Easily meet outdoor lighting code requirements
- Integrated fixture controls for dual-level motion based control
- Integrated scheduling options with wireless programming

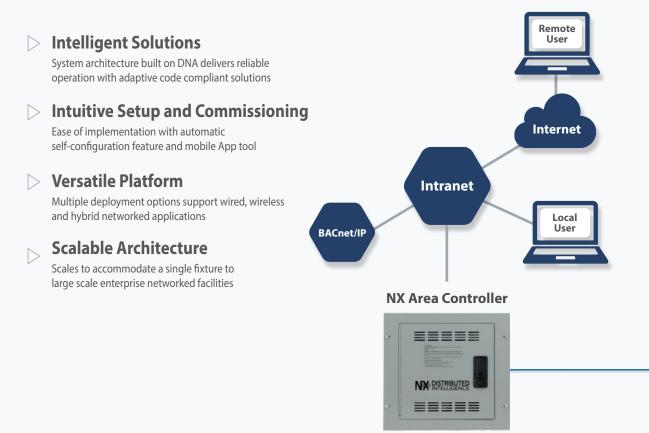


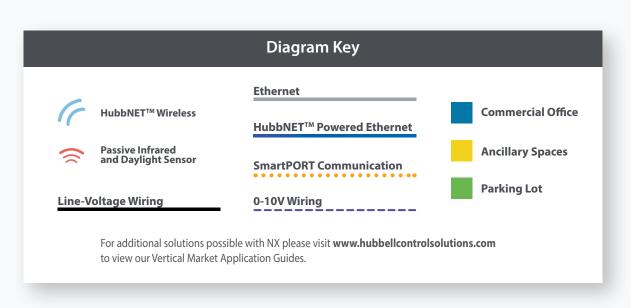
Retail

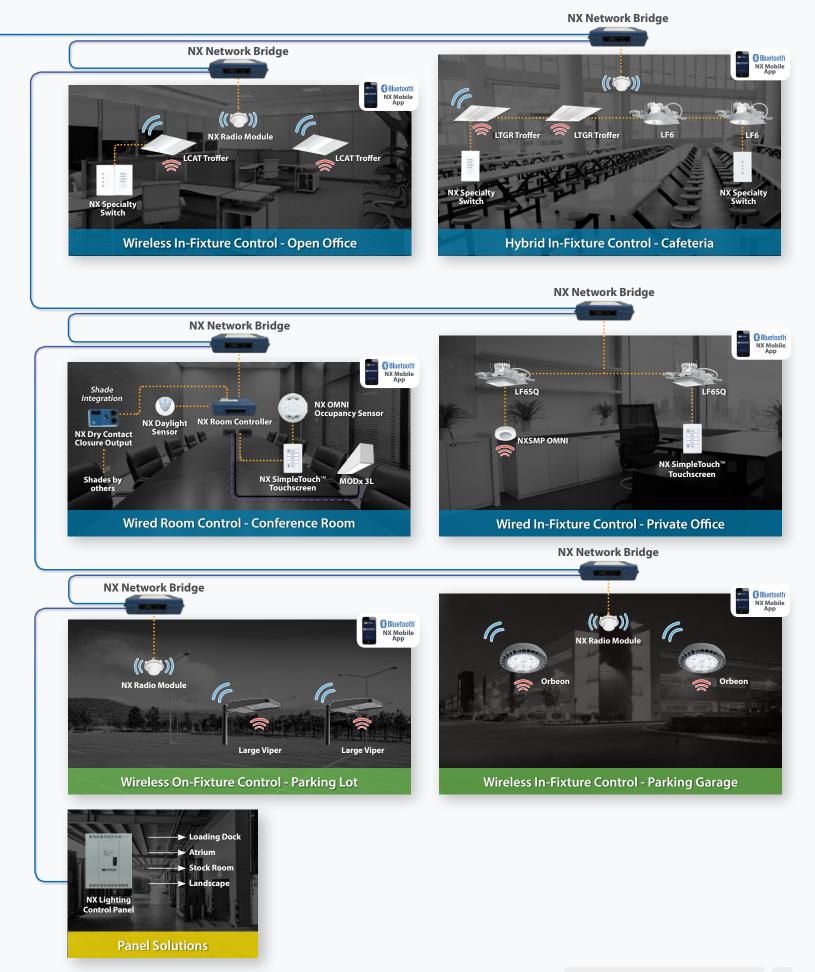
- Lighting control panel solutions offer centralized maintenance
- Flexible schedule based control aligns well with retail requirements
- Scheduling offset from "open/close" time for easy changes

Intelligence is in our DNA

NX utilizes a Distributed Network Architecture (DNA), which enables programming to be stored at the device level. Unlike other platforms, NX's fully distributed design means that each intelligent control can function independently all the way down to the room, fixture and device level. This revolutionary approach to lighting control provides a truly intelligent system that eliminates operational dependencies on software, gateways and servers. Today, many other lighting control systems are dependent on and responsive to higher level controllers in the system architecture.







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Complete Suite of Products

NX Distributed Intelligence™ offers a broad portfolio of controllers, network devices, panels, sensors, and interfaces under one platform to address new construction and retrofit applications.

In-Fixture Controls



In-Fixture Control Modules

- On / Off control and/or two
- Suitable for indoor and outdoor applications
- Wireless programming



In-Fixture Sensor Modules

- Luminaire-integrated design reduces complexity and design time
- · Out-of-the-box operation to meet code and simplify installation
- Bluetooth® enabled sensors available in five versions to address occupancy and daylight dimming



- Provide HubbNET™ wireless network communication
 - Robust and reliable IEEE 802.15.4 2.4GHz radio
 - · Remote, in-fixture and onfixture mounting options



Accessories

- Provide dual RJ45 ports for CAT5 daisy-chain connections
- Offer dual, mini SmartPORT™ connections for In-Fixture modules
- Simple attachment to luminaires

Simple Setup and Control

NX offers several user interface options, each optimized for a variety of use cases.



Device Setup App

The NX Device Setup App provides Bluetooth® wireless setup and configuration of NX Room Control devices and luminaires equipped with an NX In-Fixture module with smart sensor. The mobile App is available in Android™ and iOS® versions for free download from Google Play[™] or Apple[®] stores.



■ IntelliscopeTM

Intelliscope provides a unique and powerful tool for calibrating and testing NX In-Fixture smart sensors. Motion captured by the sensor is displayed in real time relative to the current sensitivity setting making precise calibration possible without the need for repetitive "test mode" trial and error calibration.

Room Controls



Room Controllers

- Intelligent auto-configuration with devices
- Automatic code compliance
- · Cat5 plug and play connectivity
- · UL924 emergency solutions



Occupancy Sensors

- Embedded IntelliDAPT™ self-adaptive technology
- · Passive Infrared, Ultrasonic and Dual Technology versions
- Occupancy or vacancy mode with up to 2000 sq. ft. coverage area



Daylight Sensors

- · Open-loop daylighting controls
- Supports up to 6 lighting zones per room
- Simple setup using the NX mobile App



- Allow third party interfaces
- Support A/V, Dry Contacts and **HVAC** options
- · Enables Bluetooth commissioning with Real Time Clock option



Wall Switch Stations

Single and multi-button wall switch stations are available in specialty pre-configured and programmable smart versions. Both offer a selfconfiguration feature that automatically configures the wall switch stations to perform the logical control and code compliant sequence of operation. All NX wall switch stations can be used with Room Controllers, Panels, or In-Fixture Modules in either standalone or networked applications.



■ NX SimpleTouch[™] Graphic **Wall Station**

The NX SimpleTouch™ Graphic Wall Station provides the ultimate in multi-function operation in a compact single gang package. The NX SimpleTouch™ graphic wall station provides an intuitive and configurable user control for switching, dimming, color tuning using SpectraSync™ technology and activation of groups

Networked Building Controls



Area Controllers

- Central component for enterprise solutions
- Real-time programming and monitoring
- Native BACnet[™] support



Network Bridge

- Connect Room Controllers to HubbNET network
- · Provide communication link for Area Controllers
- CAT5 plug and play connectivity



Network Accessories

- Enable connection of additional
- Provide network connections and power to NX accessories
- · Mount to standard DIN rail



Lighting Control Panels

- Provides programmable switching and dimming of lighting circuits
- · Can be used exclusively or as part of a network solution
- Available in 8, 16, 24, 32 and 48





Area Controller

The NX Area Controller is the central component in an enterprise or building networked system. The interface is web browser based and does not require the installation of any software. A native BACnet[™] interface facilitates a standard TCP/ IP connection providing monitoring and control of lighting by the Building Automation System.



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NX Enabled Lighting Portfolio

NX Distributed Intelligence™ enables Hubbell's portfolio of commercial, industrial and architectural luminaires to further reduce energy consumption and total cost of ownership for simple to complex control environments.

This provides you the breadth and flexibility to address all your project requirements today and in the future.

For a complete list of luminaires with integrated NX options please visit www.hubbellcontrolsolutions.com

Architectural Indoor









MODx 3L

Commercial Indoor











Peloton

Industrial



HUBBELL[®] Industrial Lighting



Architectural & Commercial Outdoor













SpectraSync™ Color Tuning Technology enables dynamic control over the lighting of indoor spaces.

Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with three distinct SpectraSync™ Color Tuning Technologies.



Dim to Warm

Dim to Warm mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed. (Available with 2200K-3000K)



Tunable White

Tunable White offers you the ability to tailor correlated color temperature (CCT) to your personal preference, enhancing task visibility, material and colors and the aesthetics of the space. (Available with 2700K-5000K or 2700K-6500K)



Scheduled White

Scheduled White creates an environment that mimics the rhythm of natural light or follows an alternative user-defined schedule throughout the day, enhancing an occupant's mood and well-being. (Available with 2700K-5000K or 2700K-6500K)

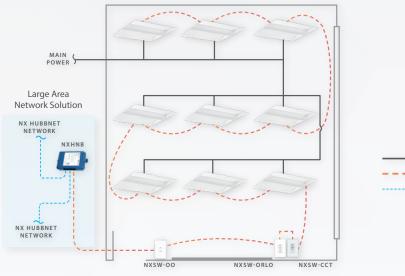
When paired with SpectraSync™ enabled luminaires, NX delivers a comprehensive color control solution, simplifying setup and code compliance through self-configuration and a Bluetooth® interface with mobile application.





- Complete control solutions for applications using SpectraSync color tuning technology
- Simplified installation with device auto-configuration and plug-n-play connectivity
- Free Bluetooth® enabled mobile app for ease of configuration
 Available for both iOS and Android devices
- Intuitive app interface and user-friendly wall stations for precise control

Typical NX Distributed Intelligence Layout for In-fixture Control



MAIN POWEI

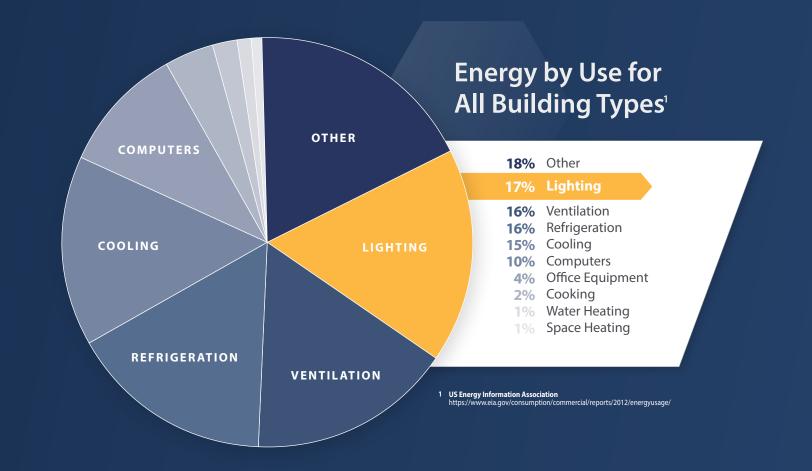
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Energy Savings and the Building Environment

Lighting comprises 17% of the total energy consumption in a building. While commercial lighting energy use continues to decline as a result of increased LED lighting efficacy and more stringent energy codes, there are still opportunities for energy savings. For example, additional savings can be seen through controlling plug loads and the deployment of dimmable LED luminaires controlled with occupancy or daylight sensors.

Additional HVAC Savings

Native BACnet™ Integration with Building Management Systems (BMS) allows an exchange of occupancy and daylight information to help manage energy strategies and promote additional energy efficiency improvements through other building systems, such as HVAC. Integrating lighting control equipment through BACnet has the added benefit of reducing the initial equipment cost, reducing wall and ceiling clutter by eliminating the need for duplicate sensors and leveraging Hubbell Controls Solutions advanced sensor technology. Enabling BMS control of dimmable LED luminaires may represent an additional point of control which reduces the overall thermal load within a conditioned space.







Standards & Code

ENERGY CODES NX SCALABLE SOLUTIONS State of the second s

	IEC	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		/ Fixture	Room	Building
INDOOR						
High End Trim				~	~	~
Local Control	C405.2.2.3	9.4.1.1 (a)	130.1 (a)	~	~	~
Multi Level Control	C405.2.2.2	9.4.1.1 (b)	130.1 (b)	~	~	~
Scheduling	C405.2.2.1	9.4.1.1 (i)	130.1 (c) 4	~	~	~
Occupancy Sensor Full OFF	C405.2.1.1	9.4.1.1 (h)	130.1 (c) 6	~	~	~
Occupancy Senor Partial ON	C405.2.1.1	9.4.1.1 (c)	130.1 (c) 5	~	~	~
Occupancy Sensor Partial OFF	C405.2.1.2	9.4.1.1 (g)	130.1 (c) 6	~	~	~
Continuous Daylighting	C405.2.3	9.4.1.1 (e)	130.1 (d)	~	~	~
Plug Load Control		8.4.2	130.5 (d)	×	~	~
Demand Response			130.1 (e)	Contact Closure	Contact Closure	BACnet™
BMS Integration				Contact Closure	Contact Closure	BACnet
O U T D O O R						
Astronomical Timeclock	C405.2.5(2)	9.4.1.4 (b)	C405.2.2.3	~		~
Setback	C405.2.5(3)	9.4.1.4 (d)	C405.2.2.3	~		~
Daylight OFF	C405.2.5(1)	9.4.1.4 (a)	C405.2.2.3	~		~
Demand Response				Contact Closure		BACnet
BMS Integration				Contact Closure		BACnet

Code Compliance at Every Level of Scalability

From a single standalone fixture solution to a complete networked building approach, NX can maximize energy savings and meet or exceed today's energy code requirements.



High End Trim - An artificial maximum light output set below actual maximum light output for each space



Continuous Daylighting - Automatically turns lights down to a reduced level or off based on the amount of daylight present in a space

Daylight OFF - Automatically turns the lights off based on the amount of daylight



Local Control - Manual lighting controls that control all the lights in that space and requires human intervention

Multi-level control - Providing additional light levels in a space beyond Full ON and Full OFF

Plug Load Control - Automatically turns off designated receptacles in response to all occupants leaving the space or time of day



Demand Response - A defined temporary reduction of lighting load or load shedding in response to a request from an energy authority such as a utility or regional transmission operator



Scheduling - Controls light levels based on facility schedule

Astronomical Timeclock - Controls light levels based on sunrise/sunset and project location



BMS Integration - The data exchange for control and monitoring from a facilities Building Management System or Energy Management System using a common protocol such as BACnet™



Full OFF - Automatically turns the lights off within a set period of time after all occupants leave the space

Partial ON - Automatically turns lights on to a reduced level between full on and full off when occupants enter the space

Partial OFF - Automatically turns lights down to a reduced level between full on and full off after all occupants leave the space



Setback - Automatically turns lights down to a reduced level after all occupants leave the area

Comprehensive Support Options to Meet Project Needs



CERTIFIED FIELD TECHNICIAN

HUBBELL° Control Solutions



Phone and Online Support

While it is our goal to provide you with intelligent, simple and scalable control solutions, customer experience level and project complexity may necessitate additional support during the design development, construction and post-occupancy stages of a project.

The Hubbell Control Solutions support team is available for consultation to evaluate multiple control scenarios to identify the ideal lighting control device or system to meet energy code requirement and customer criteria. Additionally, our team of friendly and experienced professionals is enabled to assist on-site personnel, such as installation contractors, third party integrators, certified field technicians and facilities personnel, to quickly resolve issues and provide additional support.

Design Service

Our team of lighting control system design professionals are available to provide sensor layouts, networked system design services and third party integration support for new and retrofit projects. Our goal is to provide you with on-time and accurate delivery of design deliverables optimized for your specific application, compliant with local building codes and project specifications.

On-site Support

Hubbell Control Solutions offers on-site support service to ensure your project goes smoothly. While Hubbell Control Solutions products are designed with simplicity in mind, some projects may benefit from a Certified Field Technician to perform an on-site pre-installation walk-through, after-hours and remote startup assistance, occupant training, sensor tuning, preset programming and other pre/post-occupancy services.

Warranty

Hubbell Lighting provides a 5-year limited warranty for LED luminaires and Hubbell Control Solutions devices.







ALERA LIGHTING

ARCHITECTURAL AREA LIGHTING

BEACON PRODUCTS

COLUMBIA LIGHTING

COMPASS

DUAL-LITE

HUBBELL CONTROL SOLUTIONS

HUBBELL INDUSTRIAL LIGHTING

HUBBELL OUTDOOR LIGHTING

KIM LIGHTING

KURT VERSEN

LITECONTROL

PRESCOLITE

WHITEWAY



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