

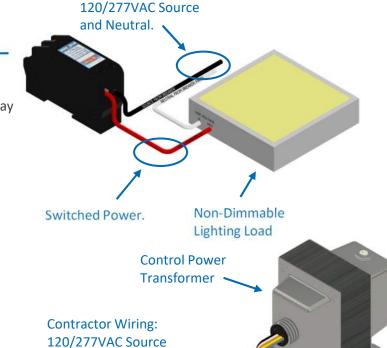


FOR THE LIFE OF YOUR BUILDING.

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Factory Wiring

Control Power Terminal Block

*120VAC Connection Shown

Factory Wired: Low Voltage Panel Raceway



NXL-R32i Shown

APPLICATION OVERVIEW

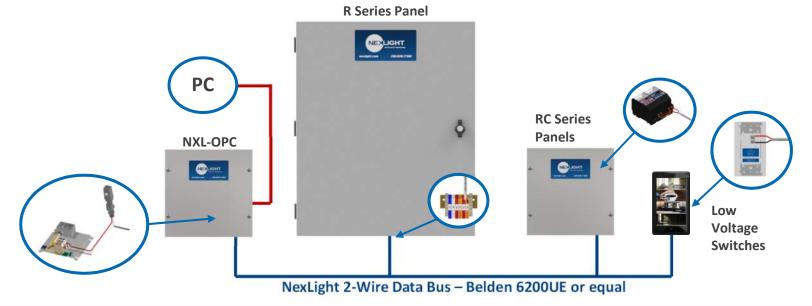
The R Series Panels are stand-alone relay panels that serve as the primary point of connection in the 2-Wire NexLight Lighting Control System. Utilizing the CRC1201, the R Series panels provide a Graphic User Interface for monitoring and control of all addresses on your lighting control system. Networking multiple (up to 250) standard panels (R Series and/or D Series) is easily done through a standard Ethernet (CAT5E or greater) Local Area Network. This networking approach allows for a truly segmented network design, while retaining the advantage of leveraging the reliability and simplicity of the NexLight 2-Wire Data Bus.

and Neutral.

Etherne

- Networkable via Ethernet.
- Programming, Monitoring and Remote Override available through Graphic User Interface (GUI).
- Utilizes the CRC7000 Mechanically Latching Relay backed by NexLight's 20-Year Relay Warranty.

TYPICAL RISER

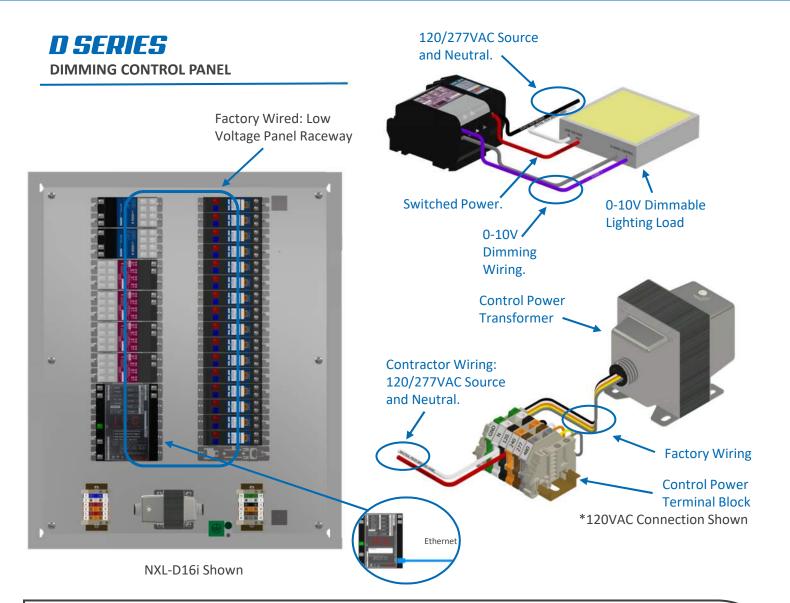


PANEL SCHEDULE

Information supplied by building IT Department		PANEL NAME:			→	IP /	ADDRESS:			
Record the control circuit wired to the terminal block		MOUNTING LOCATION: TRANSFORMER FEED: PANEL TYPE: NXL-R32s LEFT SIDE				DEFAULT	SUBNET MASK: DEFAULT GATEWAY: NEL DIMENSIONS: 30,00"H x 24,00"W x 6,00"D RIGHT SI			NEXLIGHT
		LOAD DESCRIPTION		SOURCE	ADDRESS	DEVICE	DEVICE	ADDRESS	SOURCE	LOAD DESCRIPTION
Record the Lighting _ Load Description			Ţ		0-1	CRC7000	CRC7000	0-2		
Record the source			\dashv		0-3	CRC7000	CRC7000	1-2		
circuit breaker			+		1-3	CRC7000	CRC7000	1-4		
					2-1	CRC7000	CRC7000	2-2		
					2-3	CRC7000	CRC7000	2-4		
					3-1	CRC7000	CRC7000	3-2		
					3-3	CRC7000	CRC7000	3-4		
					4-1	CRC7000	CRC7000	4-2		

STEPS TO INSTALLATION

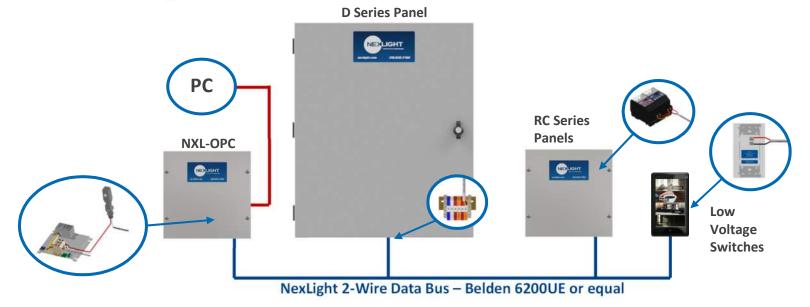
- 1. Mount the R Series Panel in the desired location.
- 2. Wire the CRC7000 Relay to the Source and Lighting Load.
 - Record the Source and Lighting Load Description on the part number specific Panel Schedule.
- 3. Connect Line Voltage to the Control Power Terminal Blocks.
 - Record the circuit breaker designation in the appropriate field at the top of the Panel Schedule.
- 4. Proceed with wiring the NexLight 2-Wire Data Bus; Reference the Table of Contents for specific applications.



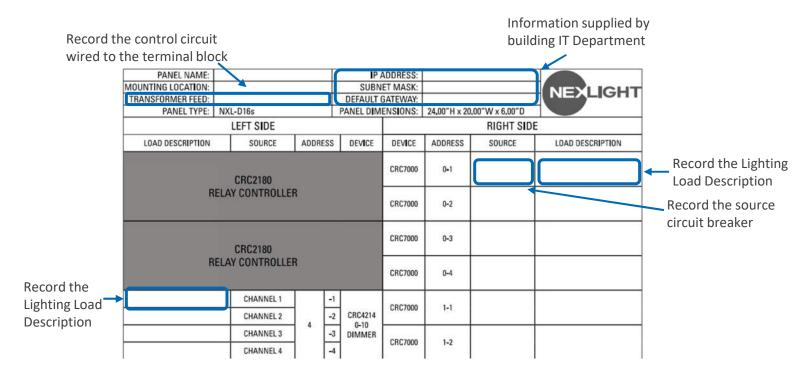
The D Series Panels are stand-alone 0-10V dimming panels that serve as the primary point of connection in the 2-Wire NexLight Lighting Control System. Utilizing the CRC1201, the R Series panels provide a Graphic User Interface for monitoring and control of all addresses on your lighting control system. Networking multiple (up to 250) standard panels (R Series and/or D Series) is easily done through a standard Ethernet (CAT5E or greater) Local Area Network. This networking approach allows for a truly segmented network design, while retaining the advantage of leveraging the reliability and simplicity of the NexLight 2-Wire Data Bus.

- Networkable via Ethernet.
- Programming, Monitoring and Remote Override available through Graphic User Interface (GUI).
- Utilizes the CRC7000 Mechanically Latching Relay backed by NexLight's 20-Year Relay Warranty.
- 100 mA of Sinking Current per Dimming Channel.

TYPICAL RISER

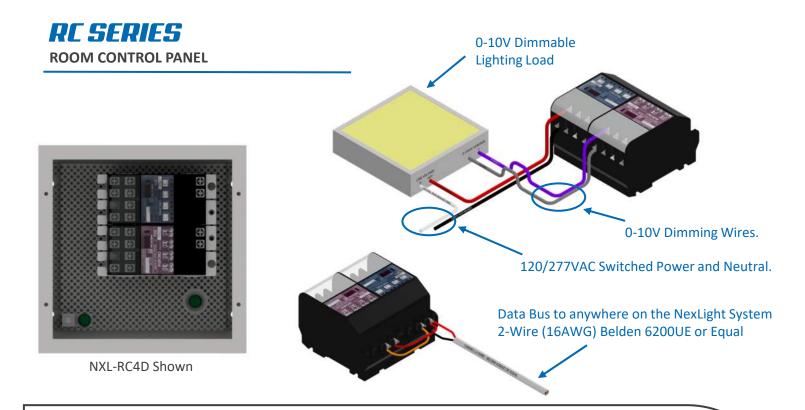


PANEL SCHEDULE



STEPS TO INSTALLATION

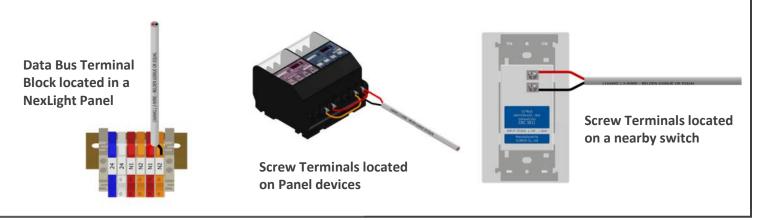
- 1. Mount the D Series Panel in the desired location.
- 2. Wire the CRC7000 Relay to the Source and Lighting Load.
 - Record the Source and Lighting Load Description on the part number specific Panel Schedule.
- 3. Wire the CRC4214 0-10V Dimming Channel to the Lighting Load.
 - Record the Lighting Load Description on the part number specific Panel Schedule.
- 4. Connect Line Voltage to the Control Power Terminal Blocks.
 - Record the circuit breaker designation in the appropriate field at the top of the Panel Schedule.
- 5. Proceed with wiring the NexLight 2-Wire Data Bus; Reference the Table of Contents for specific applications.



The RC Series Panels are an Auxiliary Panel for use in distributed system designs connected to the NexLight Lighting Control System. The small enclosure can easily be mounted in the controlled space to run smaller lighting Loads (10A or less per zone). The distributed network approach reduces the need for line voltage home runs to the main lighting control panel. There is no transformer for control power, the only control power required is supplied by the NexLight 2-Wire Data Bus. The RC Series provides up to 4 Zones each in either On/Off or Dimming applications.

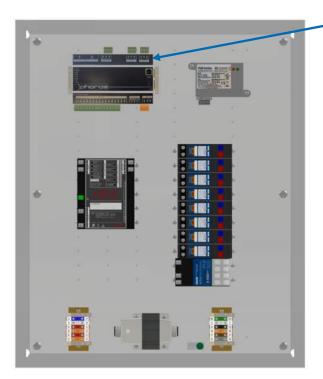
APPLICATION HIGHLIGHTS

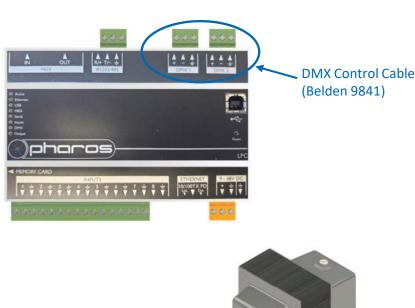
- Easily Expand the control capacity of a NexLight Lighting Control System.
- Use as an auxiliary panel for an R Series, D Series or a Custom Panel.
- Programming, Monitoring and Remote Override available through Main Panel Graphic User Interface (GUI).

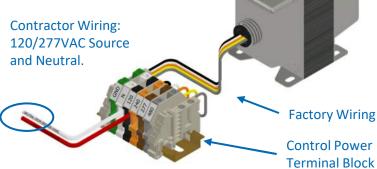


DMX SERIES

LIGHTING CONTROL PANEL







*120VAC Connection Shown

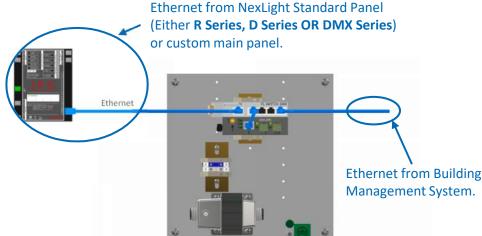
APPLICATION OVERVIEW

The NexLight® DMX Series lighting control panel provides control of DMX controllable lighting by combining two powerful and reliable control systems, Pharos Architectural and NexLight. The DMX Series provides versatile control as a standard offering from NexLight, with configurations available in 1, 2 or 4 universes. These lighting control panels come in a NEMA/Type 1 enclosure and are factory wired in NexLight's UL508A shop, ready to accept DMX control cable (Belden 9841). Networking multiple panels together using the global addressing feature provides seamless control from a single platform allowing for full integration between DMX fixtures and traditional lighting fixtures. The easy-to-use Graphic User Interface (GUI) may be accessed through a Personal Computer (PC) for real-time programming, monitoring and override of your traditional lighting loads or DMX timelines. The scheduling function is also accessed through the GUI and provides the end user with full control of the system whether on-site or from a remote location.

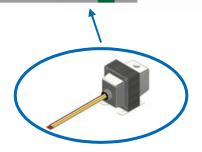
- Includes a comprehensive set of pre-loaded timelines and schedules
- The power of Pharos Architectural combined with the reliability of NexLight
- Full Integration of DMX Lighting with Traditional Building Lighting
- Fixture brand agnostic programming capabilities
- BACnet connectivity for BMS available by adding NXL-BMS accessory panel
- Graphic User Interface through a PC with a built-in Real Time Clock (RTC) for scheduling

BACnet PROTOCOL CONVERSION PANEL





Description	Wire Color
Neutral	Black
120VAC	White
240VAC	Orange
277VAC	Yellow
480VAC	Gray

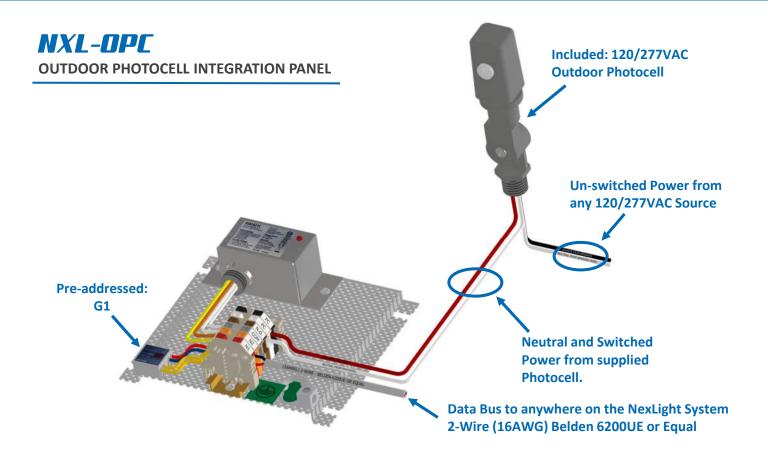


120/277VAC Connection for Power Supply; Reference Table on the left for the correct Voltage.

APPLICATION OVERVIEW

As a standard, all NexLight lighting control panels utilizing the IPC or SPC controller include native Modbus TCP/IP support. If you require BACnet protocol for integrating into your Building Management System, the NXL-BMS is the accessory panel you need. To implement this solution, the installer simply needs to supply power to the included Transformer, connect the main NexLight panel to an available port on the included ethernet switch in the NXL-BMS panel via Ethernet (CAT5E or greater). The BACnet system can then connect either via Ethernet to another available port on the ethernet switch or via RTU connection on the BMS protocol converter in the NXL-BMS panel. The only remaining task is for the Building Management Integrator to set the communication of the device to match their BMS network and Map the NexLight System Points using the supplied points list.

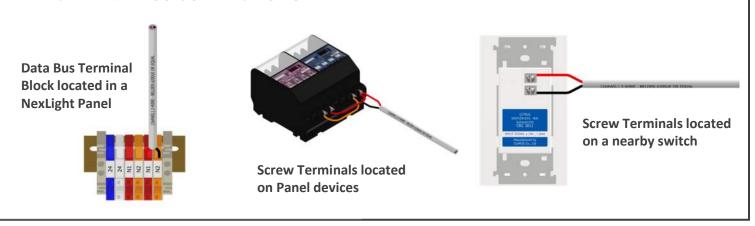
- Simple BMS integration using BACnet Protocol.
- Solution for any R Series, D Series, DMX Series or a Custom Main Panel.
- Allows Building Management to override any point on the NexLight System including dimming levels of dimmed lighting loads.



The NXL-OPC is an Accessory Panel designed to easily allow the addition of an outdoor photocell into a NexLight Lighting Control System. The small enclosure can easily be mounted near the outdoor photocell, minimizing the line voltage run lengths. This is a multi-voltage solution that simplifies installation for the installing contractor.

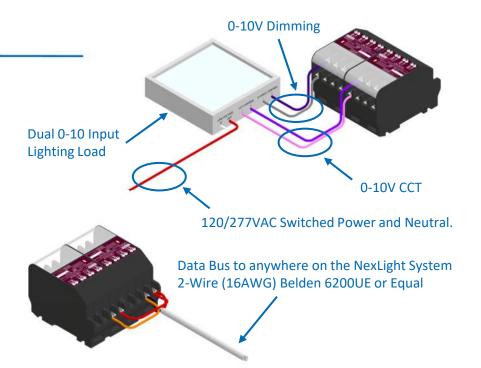
APPLICATION HIGHLIGHTS

- Included 120/277VAC Outdoor Photocell
- Use with R Series, D Series or a Custom Panel.
- Fully Addressable to provide group control of relays.
- Ability to add a Disable-Address for the outdoor photocell.



NXL-OOP5 0-10V EXPANSION PANEL



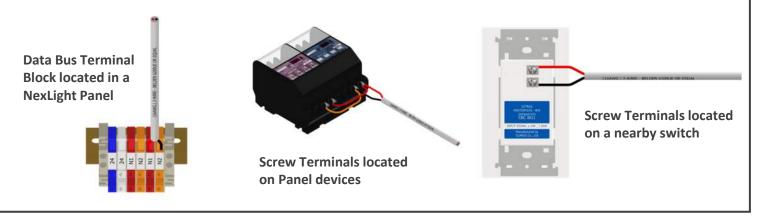


APPLICATION OVERVIEW

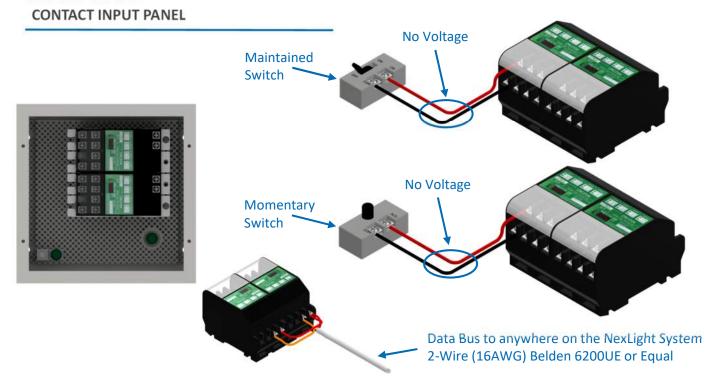
The NXL-00P5 is a Dimming Expansion Accessory Panel that allows for the easy addition of 0-10V Dimming Channels to the NexLight Lighting Control System. The small enclosure can easily be mounted in the controlled space or wherever additional 0-10V channels are required. The use of 0-10V for Correlated Color Temperature (CCT) can be achieved by using the 0-10V Control provided in this solution. There is no transformer for control power, the only control power required is supplied by the NexLight 2-Wire Data Bus. The NXL-00P5 provides up to 8 Channels of 0-10V Sinking for either CCT or Dimming applications.

APPLICATION HIGHLIGHTS

- (8) 0-10V Control Channels (100mA Sinking Current per channel).
- Use with R Series, D Series or a Custom Panel.
- Expanded Capacity of the NexLight System using a "building block" solution.
- Physical High and Low trim level potentiometers to accommodate final adjustment.



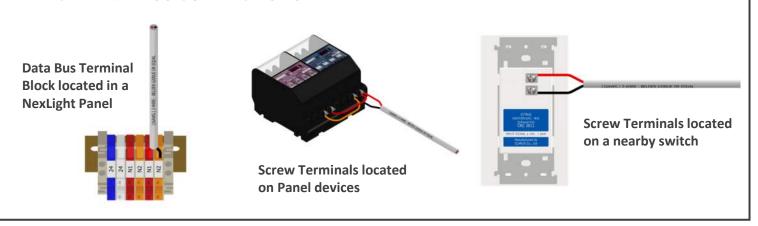




The NXL-AVI is a Contact Input Accessory Panel commonly used for integration of A/V systems with the NexLight Lighting Control System. The small enclosure can easily be mounted adjacent to the system providing contact closures. Contact Closures may be momentary or maintained allowing flexibility in achieving the desired sequence of operation. The NXL-AVI requires no transformer for control power, the only control power required is supplied by the NexLight 2-Wire Data Bus to provide up to 8 Contact Inputs.

APPLICATION HIGHLIGHTS

- (8) Contact Inputs that accept "Dry" Contact Closures.
- Use with R Series, D Series or a Custom Panel.
- Simple integration of 3rd party systems and devices into the NexLight System.



2-Wire Network

LOW VOLTAGE ADDRESSABLE SWITCHES





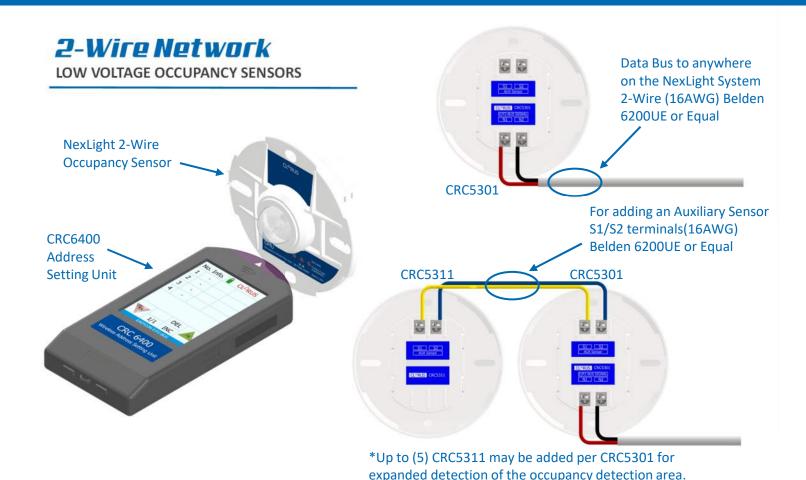
APPLICATION OVERVIEW

The NexLight Lighting Control System features fully addressable switches that provide the flexibility to control any addresses on the 2-Wire Data Bus. Addresses created within the Graphic User Interface (GUI) are assigned to the switches using the CRC6400 Address Setting Unit. The available address types include Individual (IND), Group (GRP) & Scene (SCN). No supplementary power supply is required for control power, the only connection needed is to the NexLight 2-Wire Data Bus. Switches come in 1, 2, 3, 4, or Dimmer Configurations. Real time adjustments for manually adjusting light levels require a Low Voltage Dimmer Switch configuration.

APPLICATION HIGHLIGHTS

- Use with R Series. D Series. DMX Series or a Custom Main Panel.
- Simple User Level control of NexLight System using a Low Voltage 2-Wire connection.





The NexLight Lighting Control System features fully addressable ceiling mount occupancy sensors that provide the flexibility to control any addresses on the 2-Wire Data Bus. The CRC5301 Occupancy Sensor Main Unit (OMU) accepts addressing from the CRC6400 Address Setting Unit. Configuration of how the sensor operates is ladder-less and performed within the Graphic User Interface (GUI). This sensor is ideal for corridor High/Low operations in addition to classrooms, offices, lobbies because you can easily disable the sensor operation during scheduled timeframes. No supplementary power supply is required for control power, the only connection needed is to the NexLight 2-Wire Data Bus.

APPLICATION HIGHLIGHTS

- Use with R Series, D Series or a Custom Panel.
- Ladder-less configuration through the NexLight Graphic User Interface (GUI).

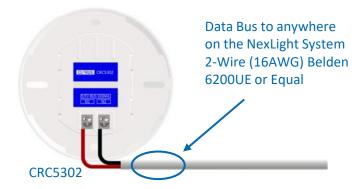


2-Wire Network

LOW VOLTAGE DAYLIGHT SENSORS





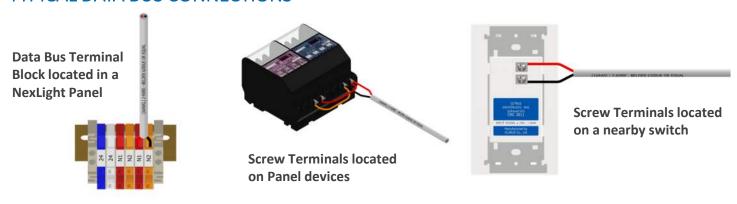


APPLICATION OVERVIEW

The NexLight Lighting Control System features a fully addressable daylight sensor that provides the flexibility to control any addresses on the 2-Wire Data Bus. The CRC5302 Optimizing Daylight Unit (ODU) accepts addressing from the CRC6400 Address Setting Unit. Configuration of what daylight zones are controlled by the sensor is ladder-less and performed within the Graphic User Interface (GUI). This sensor can be used for multiple panel-controlled zones, so there is no need for multiple daylight sensors within a single daylight harvesting zone. No supplementary power supply is required for control power, the only connection needed is to the NexLight 2-Wire Data Bus.

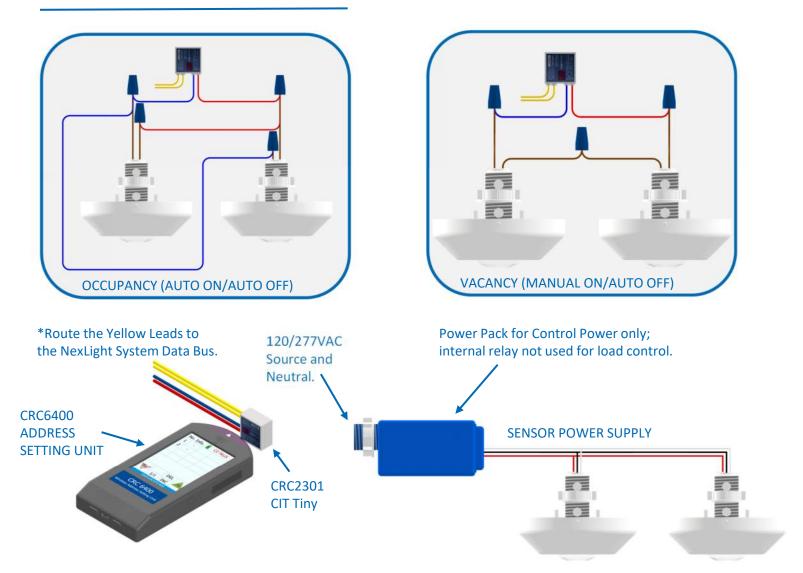
APPLICATION HIGHLIGHTS

- Use with R Series, D Series or a Custom Panel.
- Ladder-less configuration through the NexLight Graphic User Interface (GUI).



2-Wire Network

STAND-ALONE SENSOR INTEGRATION

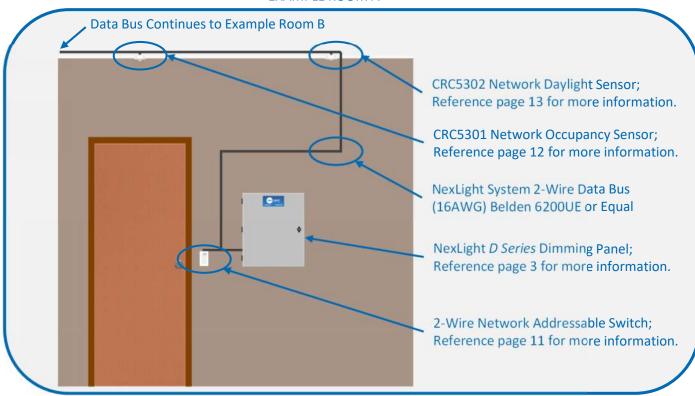


APPLICATION OVERVIEW

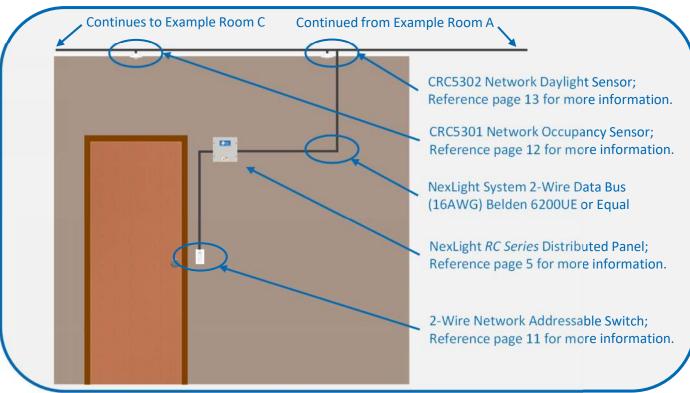
Integrating Stand-alone sensors into the 2-Wire NexLight Lighting Control System can be done using any sensor that has a Form-C Relay wired to a CRC2301 CIT Tiny. Wiring the CRC2301 to achieve Occupancy operation, is a matter of landing the red and blue leads onto the common and normally open (wired in parallel for multiple sensors); reference Occupancy Diagram above. Wiring to achieve Vacancy operation, is a matter of landing the red and blue leads onto the common and normally closed (wired in series for multiple sensors); reference Vacancy Diagram above. The power pack is only required for powering the sensors, the isolated relay in the power pack may be used for plug load in the space if desired. Wire the Yellow leads on the CRC2301 to anywhere on the NexLight 2-Wire Data Bus Network.

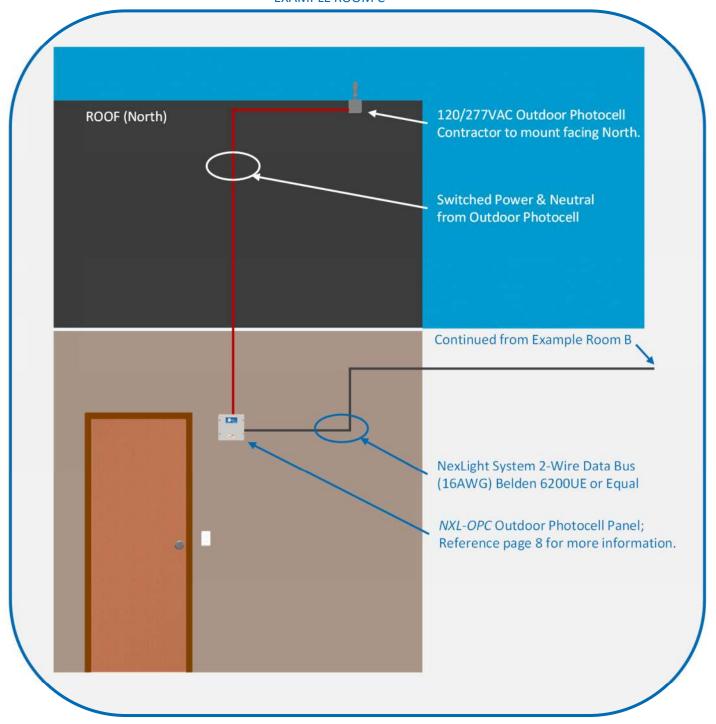
- Acts as a potential plug load solution.
- Programming, Monitoring and Remote Override available through the NexLight Graphic User Interface (GUI).
- Ability to disable sensor operation using an optional individual address within the CRC2301.

EXAMPLE ROOM A



EXAMPLE ROOM B

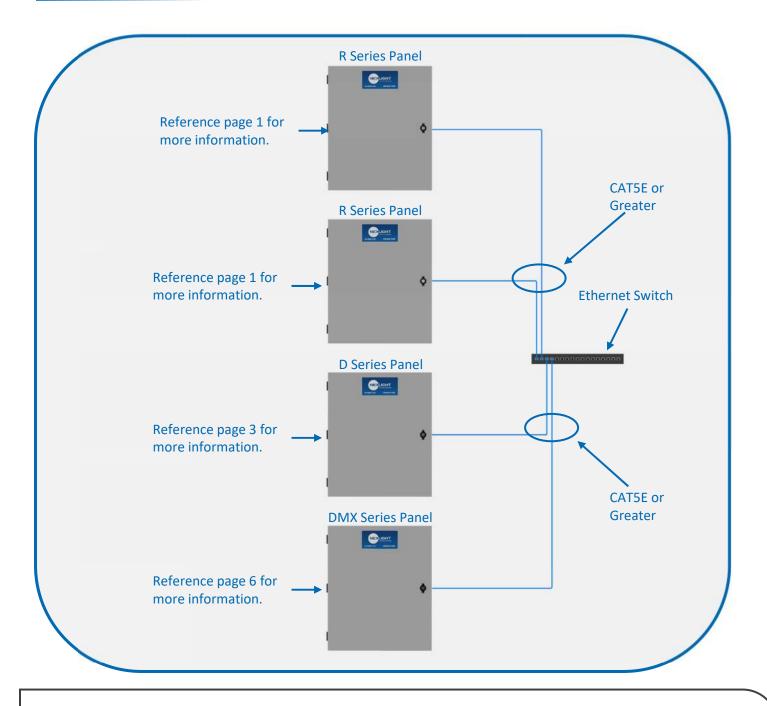




Using the 2-Wire Data Bus Network, the NexLight System can provide up to 256 Individual points of control using *Individual Addresses* (IND). The Individual Addresses may be Grouped for simultaneous control using *Group Addresses* (GRP), the user also has the option of Creating Scenes using *Scene Addresses* (SCN). All configuration of Group and Scene Addresses is achieved using the Graphic User Interface (GUI).

Like the configuration of Group and Scene Addresses, scheduling system events is also achieved within the System GUI.

APPLICATION OF EQUIPMENT



APPLICATION OVERVIEW

Networking multiple NexLight 2-Wire Systems is done through a Local Area Network (LAN) by changing the IP Address of each Main panel withing the Graphic User Interface (GUI). The Main Panel on the NexLight System utilizes a CRC1201 IPC (256 address capacity) Central Processing Unit (CPU). Using this approach provides Networking of up to 250 Separate NexLight 2-Wire Systems and allows for scaled solutions to suit any building. With up to 256 points of control per NexLight 2-Wire System, NexLight can accommodate a Network of up to 64,000 points of control using the most reliable and stable Network in the Industry.