ATTACHMENT A
SOLE SOURCE FACILITY JUSTIFICATION TRANSMITTAL

Public Contract Code section 3400 provides, in pertinent part, that:

"(a) The Legislature finds and declares that it is the intent of this section to encourage contractors and manufacturers to develop and implement new and ingenious materials, products, and services that function as well, in all essential respects, as materials, products, and services that are required by a contract, but at a lower cost to taxpayers.

(b) No agency of the state, nor any political subdivision, municipal corporation, or district, nor any public officer or person charged with the letting of contracts for the construction, alteration, or repair of public works, shall draft or cause to be drafted specifications for bids, in connection with the construction, alteration, or repair of public works, (1) in a manner that limits the bidding, directly or indirectly, to any one specific concern, or (2) calling for a designated material, product, thing, or service by specific brand or trade name unless the specification is followed by the words "or equal" so that bidders may furnish any equal material, product, thing, or service. In applying this section, the specifying agency shall, if aware of an equal product manufactured in this state, name that product in the specification. Specifications shall provide a period of time prior to or after, or prior to and after, the award of the contract for submission of data substantiating a request for a substitution of "an equal" item. If no time period is specified, data may be submitted any time within 35 days after the award of the contract.

(c) Subdivision (b) is not applicable if the awarding authority, or its designee, makes a finding that is described in the invitation for bids or request for proposals that a particular material, product, thing, or service is designated by specific brand or trade name for any of the following purposes:

(2) In order to match other products in use on a particular public improvement either completed or in the course of completion."

Nlight Interior/Exterior Lighting Control

This is a sole source procurement because:

- ☑ This is a sole provider of items compatible with existing equipment or systems.
- ☐ This is a sole provider of factory-authorized warranty service.
- ☐ This is a sole provider of goods or services that perform a unique function in order to meet the specialized needs of the District. Please provide specific detail below.

Nlight Interior/Exterior Lighting Control are needed for consistency and capability with on hand parts inventory.

- ☑ There are overriding circumstances upon with the Board can find that the exception found in Public Contract Code section 3400 (c) (2) applies to the identified product(s). Please provide specific detail below as to what those circumstances are, and why this sole source procurement would be in the best interest of the District.

This brand of lighting controller has been in use at the since 2015. During this summer's remodel of Building 600, these devices and system will be centralized by way of server run software. Once this software is installed the District will have remote programming access to all buildings that have the Nlight system installed. The use of other types of controllers would be counter- productive to establishing uniformity and remote access to our systems.

- Potential for system incompatibility and/or failure to integrate with existing HVAC and automated building management systems.
- Inability to coordinate and consolidate remote programming of lighting systems in new and future renovated buildings.

Nlight has been selected by the Facilities team as the remote programming system, recommended for software compatibility, consistency and flexibility with the District's remote building management.

This is a restricted brand or trade name, and no substitutions are allowed because:

☑ The requested product is an integral repair part or accessory compatible with existing equipment or systems.

Existing Equipment/System: Nlight
Manufacturer/Model Number: Nlight NCMPDT, NCMADCX, NPODM, NGWY2

☑ The District has standardized on the requested product, and use of another brand/model would require considerable time and funding to evaluate or implement. Please provide additional detail below.

The District standardized on this type of lighting control system during the campus classroom modifications. This brand has also been used on all remodels and new buildings since 2015. Not using this lighting control device will negate the ability to centralize all building lighting remotely. The planning costs to date transitioning to a standard lighting control and developing a centralized system by way of server run software in the Building 600 would be negated due to not sole sourcing the Nlight control devices.

☑ Please provide details below:

The need for consistency and capability with the planned centralized remote programming software is required.

Supplier or Contractor Information:

Acuity Brands Lighting
One Lithonia Way
Conyers, GA 30012
(770) 922-9000

RECOMMENDATION

Sufficient evidence has been provided upon which the Board can find that the exception found in Public Contract Code section 3400 (c) (2) applies to the identified product(s). Approve a finding to authorize use of the above stated exception for Interior and Exterior Lighting Control in the MiraCosta Design Standards Manual for all the projects in the MM program. Require that said finding be included in all pertinent bid/proposal documents for those projects where such product(s) will be used.

SIGNATURE:

Tom Macias, Facilities Director — **Date** 9/14/18

Geoff Bachanas, PMO Director — **Date** 9/13/18

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ATTACHMENT B
SOLE SOURCE ARCHITECT/ENGINEERING JUSTIFICATION SUMMARY REPORT TRANSMITTAL

September 1, 2018

Re: Nlight Interior & Exterior Lighting Control

Within the Design & Construction Standards MiraCosta CCD has identified or designed various proprietary systems or products that meet specific District performance requirements, allow for seamless integration into existing systems, provide ease of maintenance, and afford a lower total cost of ownership. In these instances, the District is requesting that these systems and products shall be provided without substitution. The following Specification Section 26 09 23 is one that meets these special requirements.

Our experience working with other Colleges and Universities shows that single sources for some materials, products, equipment, and systems is a common approach to achieving best value.

We have reviewed the facility justification transmittal for the above-referenced item and believe that the District's sole-sourcing of this specification section meets the requirements for District's benefit as described above.

Sincerely,

Joe Sion
Associate Principal/Senior Manager

523 W 6th Street #245
Los Angeles CA 90014

MiraCosta College Design And Construction Standards

Item #8a: NLIght NCMPDT Sensor

Catalog Number: | Date: | Project:

OVERVIEW

The **nCM xx RJB** family of nLight ceiling/surface mount occupancy sensors provide a range of networked sensor solutions for applications with finished ceilings (e.g. ceiling tiles, sheetrock, plaster). **nCM xx RJB** family sensors utilize 100% digital Passive Infrared (PIR) detection and are available with several lens options, providing flexibility for multiple mounting height and coverage pattern requirements. Dual technology occupancy detection can also be added as an option for applications where occupants are stationary for long periods of time. All sensors have integrated on/off photocells as a standard feature, with automatic daylight harvesting/dimming control as an available option. Additionally, **nCM xx RJB** family sensors are also available with an optional auxiliary low voltage relay for simple integration with a BMS system or other building system.

nCM xx RJB family sensors are powered via the nLight network bus and typically communicate with one or more nLight enabled luminaires (e.g. Lithonia VTLED Series) or nLight relay/dimming packs to enable control of fixtures individually or in groups. These configurations work standalone and do not require a connection to a larger nLight network.

FEATURES

- 100% digital PIR detection
- Integrated photocell standard (disabled by default) – Photocell views down through sensor lens and when enabled provides two selectable modes of operation
  - On/Off mode: Photocell has full on/off control during periods of occupancy
  - Inhibit mode: Photocell can prevent lights from turning on if adequate daylight is available, but cannot turn lights off
- Optional dimming photocell (ADCX option)
- Optional auxiliary low voltage relay (AR option) for dry contact output - relay only tracks occupancy by default, ignoring switch and photocell commands
- LED status indicator
- Adjustable settings (e.g. occupancy time delays, photocell set-points) via push-button or SensorView software application
- Broadcasts occupancy and photocell information over a local nLight channel
- Remotely upgradeable firmware

Warranty

Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

A+ Capable

This item is an A+ capable component, which has been designed and tested to provide out-of-the-box luminaire compatibility with simple commissioning, when included as part of an A+ Certified™ Solution.

To learn more about A+, visit www.acuitybrands.com/aplus.

AcuityControls

nLight

nCM xx RJB
nCM PDT xx RJB

nCM 9 RJB
nCM PDT 9 RJB

nCM 10 RJB
nCM PDT 10 RJB

nCM 6 RJB

A+ CAPABLE | c UL us LISTED

ORDERING INFORMATION

nCM xx RJB — **Example: nCM PDT 9 ADCX RJB**

Series / Detection		Coverage Type		Options (See Below)	RJ45 Port Location	
nCM	PIR Detection	9	Small Motion 360°		RJB	Rear RJ45 (CAT5e patch cable & RJ45 splitter included)
nCM PDT	Dual Tech (PIR/ Microphonics)	10	Large Motion 360 °			
		6	High Mount 360° (not available with PDT version)			

nCM xx RJB Options

Photocell		Auxiliary Relay		Dual Time Delay [2]		Temp/ Humidity	
[blank]	On/Off Photocell (disabled by default)	[blank]	None	[blank]	Single Time Delay	[blank]	Standard
ADCX	Automatic Dimming Control (of remote dimming output)	AR	Low Voltage Aux. Relay	2P	Dual Time Delay	LT	Low Temp / High Humidity

NOTES:
1. For information on models with side RJ45 ports, see website
2. Not available with **AR** or **ADCX** options

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Sole Source Item #12 - Nlight Interior Exterior Lighting Control

SPECIFICATIONS

Size:	4.55" Dia. (11.56 cm) 1.55" Deep (3.94 cm)
Weight:	6 oz
Mounting:	Ceiling Tile / Sheetrock Surface, 3.5" Octagon Box, Single Gang Handy box
Color:	Matte White
Wires / Cables:	(1) CAT5e patch cable, 1ft (factory installed) (2) 20 AWG wires (**AR** option only)
nLight Bus Power Consumption:	~3mA
nLight Network Connection:	2 RJ-45 Ports (via an included RJ-45 splitter)
Relay Rating (**AR** option only):	1A @ 24 VAC/VDC (resistive only)
Temperature Rating:	Standard: -10° C to 85° C LT Option (PDT): -20° C to 60° C LT Option(PIR): -20° C to 85° C Non-LT Option (PDT): -10° C to 60° C

ROHS Compliant, Title 24 Component

COVERAGE PATTERNS

SMALL MOTION 360 (Model # nCM 9/nCM PDT 9[1])

- Best choice for small motion (e.g. hand movements) detection
- 360° conical shaped pattern
- Provides 12 ft (3.66 m) radial coverage (~500 ft²) when mounted to standard 9 ft (2.74 m) ceiling
- 8 to 15 ft (2.44 to 4.57 m) mounting heights provide 10 to 20 ft (3.05 to 6.10 m) radial coverage

[1] Sensors with Microphonics™ provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is also utilized to prevent non-occupant noises from keeping the lights on.

LARGE MOTION 360 (Model # nCM 10/nCM PDT 10[1])

- Best choice for large motion detection (e.g. walking)
- 360° conical shaped pattern
- Provides ~24 ft (7.32 m) radial coverage (~2000 ft²) when mounted at 9 ft (2.74 m)
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage
- Detection range improves when walking across beams compared to into beams

[1] Sensors with Microphonics™ provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is also utilized to prevent non-occupant noises from keeping the lights on.

HIGH MOUNT 360 (Model # nCM 6)

- Best choice for 15 to 45 ft (4.57 to 13.72 m) mounting heights
- 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical high bay fixture
- Excellent detection of large motion (e.g. walking) up to 35 ft (10.76 m)
- Excellent detection of extra large motion (e.g. forklifts) up to a 45 ft (13.72 m)

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TYPICAL APPLICATIONS

Wiring to an nLight Relay Pack

Wiring an nCM xx ADCX RJB to an nLight Dimming Pack

Wiring to an nLight Enabled Luminaire

TYPICAL APPLICATIONS

The following instructions are for mounting sensor directly to a ceiling tile or sheetrock surface. Sensor's mounting holes also align with standard round fixture or single gang handy box (screws not provided).

1. Using template included with unit, mark spots on ceiling tile/sheetrock for cable hole and mounting anchors/screws
2. Drill 1/2" hole through ceiling surface at location indicated on template
3. Insert provided anchors into ceiling surface at locations indicated on template
4. Remove provided RJ-45 splitter from sensor's attached CAT5e cable and then thread cable (and low voltage wires if **-AR** option included) through hole from underside
5. Mount sensor to anchors using two screws provided
6. Attach provided RJ45 splitter device (model **CAT5 Y**) above ceiling to cable from sensor (see diagram on right)
7. Interconnect CAT-5e cables to/from rest of nLight zone to RJ45 splitter
8. Once power is received via CAT-5e connection, all devices in zone will automatically begin functioning together according to each device's defaults
9. Install decorative sensor lid by rotating clockwise
10. Refer to included instruction card for default settings and directions on push-button programming.

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MiraCosta College Design And Construction Standards

Item #8b: NLIght NCMADCX Sensor

Catalog Number:	Date:	Project:

OVERVIEW

The **nCM ADCX RJB** and **nCM PC RJB** photocell sensors are ceiling/surface mount devices that provide a range of daylight harvesting features for nLight Control System installations with finished ceilings (e.g. ceiling tiles, sheetrock, plaster). The **nCM PC RJB** version provides on/off photocell control by default, while the **nCM ADCX RJB** provides automatic dimming photocell control by default. Ideal for spaces with windows, such as vestibules, corridors, classrooms, or offices, these sensors work by first monitoring daylight conditions in a room. They then signal networked nLight control devices to adjust their dimming outputs (and/or turn lighting off) to obtain maximum energy savings while ensuring adequate lighting levels are maintained.

The **nCM ADCX RJB** sensor controls nLight enabled luminaires (e.g. **VTLED** Family from Lithonia), nLight dimming relay packs (e.g. **nPP16 D** or **nSP5 PCD**), or auxiliary dimming output devices (e.g. **nIO D**). The **nCM PC RJB** switches nLight enabled luminaires or any relay/dimming device in an nLight system (e.g. **nPP16**). Both sensors can also be used together with nLight occupancy sensors. Manual override or adjustment of the dimming level is possible via WallPod dimmers or through the SensorView software.

Both versions are powered via the nLight network bus and can communicate with one or more nLight enabled luminaires or nLight relay/dimming packs to enable control of fixtures individually or in groups. These configurations work standalone and do not require a connection to a larger nLight network.

FEATURES

- Automatic Dimming Photocell Control (**nCM ADCX RJB** model only)
- Full On/Off Photocell Switching Control (disabled by default on **nCM ADCX RJB**)
- Optional Inhibit mode: Photocell can prevent lights from turning on if adequate daylight is available, but does turn lights off (**nCM PC RJB** model only)
- LED status indicator
- Adjustable settings (e.g. set-point) via push-button or SensorView software application
- Broadcasts photocell information over a local nLight channel
- Remotely upgradeable firmware

Warranty
Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

A+ Capable

This item is an A+ capable component, which has been designed and tested to provide out-of-the-box luminaire compatibility with simple commissioning, when included as part of an A+ Certified™ Solution.

To learn more about A+, visit www.acuitybrands.com/aplus.

AcuityControls

nLight

nCM ADCX RJB
nCM PC RJB

Daylight Harvesting Photocell

A+ CAPABLE

c UL us LISTED

ORDERING INFORMATION

nCM						Example: nCM ADCX RJB
Series / Photocell Control Type		**Dual Zone**		**Temp / Humidity**		**RJ45 Port Location**
nCM ADCX	Automatic Dimming Control Photocell	[blank]	Single Zone Control	[blank]	Standard	RJ6 Rear RJ45 (CAT5e patch cable & RJ45 splitter included)
nCM PC	On/Off Control Photocell	DZ	Dual Zone Control	LT	Low Temp / High Humidity	

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SPECIFICATIONS

Size:	4.55" Dia. (11.56 cm) 1.55" Deep (3.94 cm)
Weight:	6 oz
Mounting:	Ceiling Tile / Sheetrock Surface
	3.5" Octagon Box
	Single Gang Handy Box
Color:	Matte White
nLight Network Ports:	2 RJ-45 (via an included RJ45 splitter)
Bus Power Consumption:	~3 mA
Wires/Cables:	(1) 1ft CAT5e patch cable (factory installed)
Temperature Rating:	Standard: -10° C to 85° C
	LT Option: -20° C to 85° C

RoHS Compliant, Title 24 System Component

PHOTOCELL OPERATION

The **nCM ADCX RJB** sensor continuously adjusts a space's lighting to achieve maximum daylight harvesting while maintaining a minimum light level, referred to as the set-point. When no daylight is available, the sensor allows the controlled dimmable lighting to operate at its full bright level. As daylight increases and begins to contribute to the overall light level of the room, the Automatic Dimming Control (ADC) feature starts dimming the room proportionally, eventually reaching the full dim level (or optionally switching off, see paragraph below). As the daylight levels fall, the ADC feature will again take control of the lights; reducing the dim level (increasing the brightness) in order to achieve the necessary total light level. At the point when all daylight contribution is gone, lighting will be back at its full bright level.

The **nCM PC RJB** sensor does not control dimming, but instead signals nLight devices located elsewhere within the sensor's zone to switch a controlled lighting load on when more light is needed. The lights are also signaled to turn off when light is above the set-point plus a 10% safety factor and deadband. The safety factor will prevent the system from cycling when the light level is very near the set-point. The deadband is the level of light contributed by the artificial lights being controlled. This level is tracked so if the lighting conditions change (for example a lamp burns out) the point at which the lights turn off is adapted accordingly. If the photocell can not view the lights being controlled (for example if it is looking up at skylights), there is no deadband and the sensor is said to be working open loop. There is also an adaptive cloud delay (optional) before the photocell turns the lights off to prevent the system from cycling on a cloudy day.

AUTOMATIC DIMMING (nCM ADCX RJB) **ON/OFF CONTROL (nCM PC RJB)**

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WIRING

T568B pin/pair assignment is recommended for all CAT-5e cables. Sensor power is provided via the CAT-5e connection to an nLight power pack/supply, nLight enabled digital luminaire, or nLight Bridge.

Wiring an nCM ADCX RJB to an nLight Dimming Relay Pack

Wiring an nCM PC RJB to an nLight Relay Pack

Wiring to an nLight Enabled Luminaire

Note 1
BLK - 120 VAC
ORN - 277 VAC (or 347 VAC if unit has 347 option)

DEVICE SETTINGS

Several operational settings for the **nCM ADCX RJB** and **nCM PC RJB** are available and configurable through the unit's push-button and/or SensorView software, including:

Common Settings:
- Photocell Broadcasting (Enable/Disable)
- Photocell Broadcasting Channel (1-16)
- LED Indicator (Enabled/Disable)
- Automatic Set-point Calibration Mode
- Blink-back Set-point (in footcandles)
- Set-point (0-200 fc)
- Sunlight Discount Factor (1-10)
- Photocell On/Off Transition Time (45 sec - 25 min)

nCM PC RJB Specific Settings:
- Adaptive Cloud Delay (Enable/Disable)

nCM PC DZ RJB Specific Settings:
- Photocell Pole 2 Broadcasting Channel (1-16)
- Photocell Mode:
  - ¤ Duo - Automatic step dimming
  - ¤ Duo (Never off) - Automatic step dimming with one load always left on
  - ¤ Inhibit - Loads will be held off if sufficient daylight present, but once on will not turn off from daylight
- Dual Zone Off-Point (110 to 200%)

nCM ADCX RJB Specific Settings:
- Override (Full Dim/Full Bright/Normal)
- Switch Tracking (Enable/Disable)
- Switch Tracking Channel (1-16)
- WallPod Dimming Adjustment (Temporary, Photocell Temporary Override, Permanent)
- Occupied Bright Level (1-100%)
- Unoccupied Dim Level (1-100%)
- Dimming Rate
- Photocell On/Off (Enable/Disable)

nCM ADCX DZ RJB
- Photocell Pole 2 Broadcasting Channel (1-16)
- Dual Zone Percentage Offset (-200 to 200%)
- Dual Zone Off-Point (110 to 200%)

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MiraCosta College Design And Construction Standards

Item #8c: NLIght NPOD Controller

Catalog Number: | Date: | Project:

OVERVIEW

The nPODM Series WallPods are nLight-enabled toggle and/or raise/lower switches that provide a user with local control of a lighting zone. These single gang decorator style devices have soft-click buttons and have a green LED indicator for each button. WallPods communicate with other nLight devices via a CAT-5e cable that connects to one of its two RJ-45 connectors. A basic low voltage WallPod can work with an nLight power pack or nLight enabled fixture to provide toggle switch operation. WallPods with the DX option have the added ability to adjust the level of any nLight controlled dimmable lighting.

FEATURES

- Communicates with nLight network
- Remotely configurable/upgradeable
- Soft-click push-button control
- Custom button engraving (WH, IV, AL GY units only)
- 1, 2, or 4 channel on/off
- 1, 2, or 4 channel raise/lower
- "Dynamic" options for custom button names when pairing with Acuity Brands nTUNE fixtures

Warranty

Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

A+ Capable

This item is an A+ capable component, which has been designed and tested to provide out-of-the-box luminaire compatibility with simple commissioning, when included as part of an A+ Certified™ Solution.

To learn more about A+, visit www.acuitybrands.com/aplus.

AcuityControls™

nLight™

nPODM

Wallpod: On/Off & On/Off+Raise/Lower

ORDERING INFORMATION

nPODM — Example: nPODM 2P WH

Series	Preset Type	Dimming Control	Dynamic	Color	Temp/ Humidity
nPODM	[blank] Single channel	[blank] On/off control	[blank] Standard	WH White	[blank] Normal
	2P Two channels	DX On/off + raise/lower control	CCT[1] Correlated color temperature	IV Ivory	LT Low temp
	4P Four channels		GRSC[1] Grayscale	GY Gray	
			COLOR[1] Color control	AL Almond	
				BK Black	
				RD Red	

CUSTOM BUTTON ENGRAVING

- Standard button labeling is shown on back.
- Custom lettering for WH, IV, AL, and GY units can be specified and ordered at: http://www.acuitybrands.com/-/media/Files/Acuity/Products/Controls/nLight/NGRAVE%20110%20pdf.pdf?la=en
- To ensure color uniformity, ordering templates facilitate specifiying all buttons on a unit as custom lettered. Replacing single buttons not recommended.
- Buttons may ship separately and require field installation.

Notes
1. Only available on 2P DX configurations

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Sole Source Item #12 - Nlight Interior Exterior Lighting Control

SPECIFICATIONS

Size:	(not including ground strap) 2.74" H x 1.68" W x 1.63" D (6.96 cm x 4.27 cm x 4.14 cm)
Weight:	2 oz
Mounting:	Single Gang Switch Box or Low Voltage Ring
Color:	White, Ivory, Lt. Almond, Gray, Black, Red
nLight Network Ports:	2 RJ-45
Power Consumption:	< 5 mA
Wires:	None
Temperature Rating:	Standard: -10° C to 70° C LT Option: -40° C to 70° C

RoHS Compliant, Title 24 System Component

WIRING

TYPICAL WIRING

Power to WallPod device is provided via the CAT-5e connection to an nLight enabled fixture, nLight power pack (e.g. **nPP16**), power supply (**nPS80**), or Bridge (**nBRG 8**).

ON/OFF

ON/OFF + DIMMMING (nPODM DX)

3-WAY CONFIGURATION WIRING

WallPods and/or nLight wall switch sensors can be configured together to create zones with multiple switching locations.

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Sole Source Item #12 - Nlight Interior Exterior Lighting Control

DEFAULT LABELING

nPODM | nPODM DX | nPODM 2P | nPODM 2P DX | nPODM 4P | nPODM 4P DX

Dynamic wallpod options feature custom button names when pairing with Acuity Brands nTUNE(TM) fixtures. Reference fixture cut sheets for additional details.

nPODM 2P DX CCT | nPODM 2P DX GRSC | nPODM 2P DX COLOR

Custom lettering for WH, IV, AL, and GY units can be specified and ordered at:
http://www.acuitybrands.com/-/media/Files/Acuity/Products/Controls/nLight/NGRAVE%20110%20pdf.pdf?la=en

INSTALLATION

- Mount WallPod using holes that align with standard single gang switch box or low voltage ring
- Access RJ-45 ports by sliding plastic guard up
- Insert CAT-5e cable(s), T568B wiring convention recommended
- Slide guard back onto metal strap
- Interconnect unit with other nLight devices in lighting zone using CAT-5e cables
- Once power is received via CAT-5e connection, all devices in zone will automatically begin functioning together according to respective device's defaults

Attention! Only use non-booted CAT5e cables.

PROGRAMMING

Refer to instruction card IN-11.3 for directions on programming the sensor via the upper-most left push-button. All buttons are factory set to the matching switch channel (button 1 - channel 1, button 2 - channel 2, etc). For nPODM 4P DX, channels to be controlled are selected first, then the control button (on/off or raise/lower).

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MiraCosta College Design And Construction Standards

Item #8d: NLIght NGWY2 Controller

Catalog Number: | Date: | Project:

OVERVIEW

The nLight Series 2 Gateway (nGWY2) provides time-based and system-wide backbone control of an nLight network and/or XPoint Wireless network as well as acts as the Ethernet interface for SensorView software. Consisting of a control unit and touch screen wall station, the nGWY2 allows for manual activation of system Profiles and provides system diagnostic information to the operator. SensorView is used to configure all available features of the nGWY2, including configuration of schedules and system Profiles.

FEATURES

- Discovers nLight/XPoint Wireless Devices (max 1500 or 400 depending on version)
- Provides System Time Clock
- Stores Time-Based and Input-Activated Profiles
- Manages Forwarding of Global Control Channels Across Bridge Devices and other Gateway
- On-Demand Profile Forwarding Between Gateways
- Communicates Over IP Local Area Network (LAN) with SensorView, Other nGWY2 Devices, XPoint Wireless Bridges, nBACnet, nADR, and nWiFi devices.
- Interfaces with SensorView Software
- Enables Configuration of Devices Through SensorView Software
- Enables Continuous Data Capture for Green Screen
- Remotely Upgradeable
- Touch Screen Control User Interface

SPECIFICATIONS

CONTROL UNIT

Size:	4.90" H x 4.90" W x 1.05" D (12.45cm x 12.54cm x 2.67cm)
Mounting:	4" x 4" Square Box
Ports:	2 nLight Bus Ports (RJ-45), 1 Touch Screen Interface Port (RJ-45), 1 Ethernet Port (RJ-45, 10/100 BaseT), 2 Power Terminal Inputs
Input Current/ Voltage:	160 mA @ 15-28 VDC

TOUCH SCREEN

Size:	5.06" H x 3.50" W x 0.69" D (12.85 cm x 8.89 cm x 1.75 cm)
Mounting:	Single-Gang Low Voltage Switch Box or Ring
Mounting Height:	60 in (152 cm)
Ports:	2 nLight Bus Ports (RJ-45)
Input Current/ Voltage:	60 mA @ 15-28 VDC

POWER SUPPLY

Size:	3.00" H x 2.25" W x 1.88" D (7.62 cm x 5.72 cm x 4.78 cm) (not including ½" chase nipple)
Mounting:	1/2" Knockout
Operating Voltage:	FCS PS10: 120-277 VAC; PS 150 347: 347 VAC
Output Power:	10W~416mA@24VDC (FCS PS10), ~250 mA@ 15 VDC (FCS PS10) (note ~150 mA @ 15 VDC for dual PS 150 347 configuration)
Wires:	18 AWG (2) & 20 AWG (2)

Warranty

Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

AcuityControls

nLight

nLight Gateway

Time Clock, System Controller, and Ethernet Interface

Title 24 System Component

ORDERING INFORMATION

nGWY2			Example: nGWY2 347 KIT
nGWY2			
Series	**Max Devices**	**Voltage**	**Power Supply Kit**
nGWY2	[blank] 1500 Max L400 400 Max	[blank] 120-277 VAC 347 347 VAC	KIT Kit w/ Control Unit, Touch Screen, and Power Supply

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WIRING (DO NOT WIRE HOT)

The nGWY2 CTRL and nGWY2 GFX units are powered via a FCS PS10 power supply wired via each unit's power terminal connectors. Note: For 347 VAC powering, dual PS 150 347 power supplies are provided. Be sure to connect the red power output wires from the PS 150 347 supplies together and then wire to both the nGWY2 GFX and nGWY2 CTRL units.

SYSTEM ARCHITECTURE

nLight and XPoint Wireless networked luminaires and controls can work together in an nLight system backbone. The nLight system backbone (through one or more nGWY2 devices) provides both nLight and XPoint Wireless devices with schedule management and software programming interface. The backbone also provides support for system-wide controls such as master override switches, automated demand response, and BACnet integration. In this architecture, the XPoint Wireless Bridge presents itself as a bridge device with one or multple virtual bridge ports that support up to 250 total associated XPoint Wireless devices per bridge. Virtual bridge ports, which are associated with XPoint Wireless luminaires and devices via SensorView, provide a simple interface for organizing device locations and configuring zone behavior. When combining nLight and XPoint Wireless under nGWY2, the main rules of the nLight backbone will apply: up to 1500 total devices per nGWY2 (nLight or XPoint Wireless), and up to 128 global channels for the entire system.

DESIGN / OPERATION NOTES

- XPoint Wireless Bridges must be on same LAN as nGWY2, recommended to use same subnet.
- A Gateway Touch Screen (nGWY2 GFX) can not be substituted for a Graphic WallPod (nPOD GFX), and vice versa.
- nLight Gateway is required for the following system capabilities: nADR, nBACnet, time based control, on-demand profiles, global channel forwarding, Virtual Wallpods, and continuous data collection into Green Screen.

nGWY2 - TN-707-01

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