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IECC APPLICATION GUIDE



NX Lighting Controls' advanced systems and lighting controls offer a comprehensive portfolio of simple, scalable and seamless solutions for indoor and outdoor applications from a single partner. Our advanced lighting control technologies provide intuitive and flexible deployment options to meet code, enhance comfort, increase energy savings and improve operating efficiency for enterprises of any size. NX Lighting Controls' product suite includes distributed and centralized, wired and wireless systems, luminaire integrated sensors, color tuning controls, panels, occupancy sensors, photocell sensors, and emergency relays.



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IECC establishes minimum requirements for energy-efficient buildings using prescriptive and performance related provisions. For more information, visit https://codes.iccsafe.org.

The recommendations in this document are based on our understanding and interpretation of the code. In order to ensure full compliance, please reference the official published code.



IECC CODE REQUIREMENTS FOR TYPICAL BUILDING SPACES

IECC APPLICATION GUIDE



| | INTERIOR CONTROL | | | | RECEPTACLE PLUG LOAD CONTROL | PARKING GARAGE CONTROLS | EXTERIOR CONTROLS | ADDITIONAL EFFICIENCY PACKAGES CONTROL |
|--------------------------------------|--|-----------------------------|---|--|---|---|--|---|
| Control Requirement | Occupancy Sensor | Timeclock | Light Reduction | Daylight Responsive Controls | Receptacle (Plug load control) | Parking garage Control | Exterior Controls | Enhanced Lighting Controls |
| Code Provision | C405.2.1 | C405.2.2 | C405.2.2.2 | C405.2.3 | C405.t1 | C405.2.8 | C405.2.7 | C4056.3 |
| Code Summary | Occupancy Sensor controls shall be installed to control lights. Shall be manual on or not more than 50%. Shall turn off within 20 minutes after occupancy. | occupancy sensor control | Where not provided with occupancy sensor controls lighting shall be provided with light-reduction controls. Spaces shall have a manual control. Luminaries controlled by daylight responsive controls are exempt. | Daylight responsive controls are required in spaces of more than 150 Watts of primary sidelight or top light daylight zones. Additionally, within 300 Watts of a sidelight zone. Shall dim continuously from full to 15% of full light output. Secondary daylight zones shall extend 2 times the height of the fenestration. | At least 50% of all 125V, 15 and 20 amp receptacles & at least 25% of branch circuit feeders installed for modular furniture not shown on the construction documents. | Shall be controlled by an occupants sensor or time control. Reducing luminaire by not less the 30% with no activity for 20 minutes. Does not include areas with 1.5 lumens or less. 20 ft within perimeter wall will have daylight responsive control by 50%. Entrances and exits shall be separately controlled. | Lighting shall be automatically turned off when daylight is present. Building Façade and landscape lighting shall automatically shut off no later than 1 hr. after business closing to not earlier than 1 hr. before business opening. All other exterior lighting shall be reduced by 50% either midnight to 6 am or during any time with no activity after 15 minutes or 1 hr. after business to 1 hr. before business | All luminaires be functionally controlled with manual on and off lighting controls. Option #2 out of 8 Continuous dimming + Addressed individually + not more than 8 luminaries in a daylight zone + Digital control with Reconfiguration based on addressability + Load Sheading + Individual user control + occ sensor reconfiguration through system |
| Enclosed Office | • | | | • | • | | | • |
| Open Office | • | | | • | • | | | • |
| Conf. Meeting, Multi- Purpose | • | | | • | • | | | • |
| Classroom, Lecture Hall, Training | | | | • | • | | | • |
| Lobby | • | | | • | • | | | • |
| Corridor | | | | • | | | | • |
| Restroom | | | | • | | | | • |
| Locker Rooms | | • | • | • | | | | • |
| Warehouse/Storage | • | | | • | | | | • |
| Parking Area, Interior | • OR | • | | | | • | | • |
| Exterior Lighting | • OR | • | | | | | • | • |



CLASSROOM / LECTURE HALL / TRAINING ROOM

| | Code Provision | Minimum Control Type | Requirement |
|------------------------------|-------------------|--|---|
| OCC SENSOR CONTROL | C405.2.1 | Occupancy Sensor shall incorporate manual control to allow occupants to turn off lights | Automatically shuts off lighting power after vacancy of 20 minutes or less. Shall be manually on or automatically on to no more than 50%. |
| DAYLIGHT RESPONSE CONTROL | C405.2.3 | Full range dimming controllers with daylight sensors in primary and secondary daylight zone. | Daylight responsive controls are required in spaces of more than 150 Watts of primary sidelight or top light daylight zones. Additionally, within 300 Watts of a sidelight zone will have a secondary daylight zone in from the window 1 times the height of the window to the floor. Shall dim continuously from full to 20% of full light output. Secondary daylight zones shall extend 2 times the height of the fenestration. |
| RECEPTACLE CONTROL | C405.10 | Occupancy sensor turns lights off within 20 minutes of all occupants leaving | 50% of all 125 V, 15 & 20-amp receptacles. Plug-in devices shall NOT comply – MUST be hardwired Receptacle |

CONFERENCE / MEETING / MULTI-PURPOSE ROOM

| | Code Provision | Minimum Control Type | Requirement |
|------------------------------|-------------------|--|---|
| OCC SENSOR CONTROL | C405.2.1 | | Automatically shuts off lighting power after vacancy of 20 minutes or less. Manual or auto to <50%. |
| DAYLIGHT RESPONSE CONTROL | C405.2.3 | Full range dimming controllers with daylight sensors in primary and secondary daylight zone | Daylight responsive controls are required in spaces of more than 150 Watts of primary sidelight or top light daylight zones. Additionally, within 300 Watts of a sidelight zone will have a secondary daylight zone in from the window 1 times the height of the window to the floor. Shall dim continuously from full to 20% of full light output. Secondary daylight zones shall extend 2 times the height of the fenestration. |
| RECEPTACLE CONTROL | C405.11 | Occupancy sensor turns lights off within 20 minutes of all occupants leaving | 50% of all 125 V, 15 & 20-amp receptacles. Plug-in devices shall NOT comply – MUST be hardwired Receptacle. |





ENCLOSED OFFICE OR OPEN OFFICE <300ft²

| | Code Provision | Minimum Control Type | Requirement |
|---------------------------------|-------------------|--|---|
| OCC SENSOR CONTROL | C405.2.1 | Occupancy Sensor shall incorporate manual control to allow occupants to turn off lights. | Automatically shuts off lighting power after vacancy of 20 minutes or less. Shall be manually on or automatically on to no more than 50%. |
| DAYLIGHT RESPONCE CONTROL | C405.2.3 | Full range dimming controllers with daylight sensors in primary and secondary daylight zones. | Daylight responsive controls are required in spaces of more than 150 Watts of primary sidelight or top light daylight zones. Additionally, within 300 Watts of a sidelight zone will have a secondary daylight zone in from the window 1 times the height of the window to the floor. Shall dim continuously from full to 20% of full light output. Secondary daylight zones shall extend 2 times the height of the fenestration. |
| RECEPTACLE CONTROL | C405.11 | Occupancy sensor turns of within 20 minutes of all occupants leaving. | 50% of all 125 V, 15 & 20-amp receptacles. Plug-in devices shall NOT comply – MUST be hardwired Receptacle. |

OPEN OFFICE > 300ft²

| | Code Provision | Minimum Control Type | Requirement |
|---------------------------------|-------------------|---|---|
| OCC SENSOR CONTROLS | C405.2.1 | Occupancy sensor in zones controlled separately of no more than 600 ft ² . | Each zone permitted to turn on automatically upon occupancy. Adjacent zones are permitted to turn on to no more than 20%. Zones will turn off within 20 minutes after all zones are unoccupied. |
| TIME CLOCK CONTROL | C405.2.2 | Minimum 7 day clock with holiday "shutoff". Program and time backup for minimum 10 hour power loss. With override switch not to control more than 5000 ft ² | Automatically turns lights off when space is scheduled to be unoccupied. |
| DAYLIGHT RESPONSE CONTROL | C405.2.3 | Full range dimming controllers with daylight sensors in primary and secondary daylight zones. | Daylight responsive controls are required In spaces of more than 150 Watts of primary sidelight or top light daylight zones. Additionally, within 300 Watts of a sidelight zone will have a secondary daylight zone in from the window 1 times the height of the window to the floor. Shall dim continuously from full to 20% of full light output. Secondary daylight zones shall extend 2 times the height of the fenestration. |
| RESPONSE CONTROL | C405.11 | Occupancy sensor turns off within 20 minutes of all occupants leaving. | 50% of all 125 V, 15 & 20-amp receptacles. Plug-in devices shall NOT comply – MUST be hardwired Receptacle. |





CORRIDOR

| | Code Provision | Minimum Control Type | Requirement |
|---------------------------------|-------------------|---|---|
| OCC SENSOR CONTROL | C405.2.1 | Occupancy Sensor shall incorporate manual control not required. | Automatically shuts off lighting power after vacancy of 20 minutes or less. Full Automatic on permitted. |
| DAYLIGHT RESPONSE CONTROL | C405.2.3 | Full range dimming controllers with daylight sensors in primary and secondary daylight zones. | Daylight responsive controls are required in spaces of more than 150 Watts of primary sidelight or top light daylight zones. Additionally, within 300 Watts of a sidelight zone will have a secondary daylight zone in from the window 1 times the height of the window to the floor. Shall dim continuously from full to 20% of full light output. Secondary daylight zones shall extend 2 times the height of the fenestration. |

RESTROOM

| | Code Provision | Minimum Control Type | Requirement |
|---------------------------------|-------------------|---|--|
| OCC SENSOR CONTROLS | C405.2.1 | Occupancy Sensor shall incorporate manual control to allow occupants to turn off lights. | Automatically shuts off lighting power after vacancy of 20 minutes or less. Shall be manually on or automatically on to no more than 50%. |
| DAYLIGHT RESPONSE CONTROL | C405.2.3 | Full range dimming controllers with daylight sensors in primary and secondary daylight zones. | Daylight responsive controls are required in spaces of more than 150 Watts of primary sidelight or top light daylight zones. Additionally, within 300 Watts of a sidelight zone will have a secondary daylight zone in from the window 1 times the height of the window to the floor. Shall dim continuously from full to 20% of full light output. Secondary daylight zones shall extend 2 times the height of the fenestration |





STORAGE ROOM

| | Code Provision | Minimum Control Type | Requirement |
|---------------------------------|-------------------|---|---|
| OCC SENSOR CONTROL | C405.2.1 | Occupancy Sensor shall incorporate manual control to allow occupants to turn off lights. | Automatically shuts off lighting power after vacancy of 20 minutes or less. Shall be manually on or automatically on to no more than 50%. |
| DAYLIGHT RESPONSE CONTROL | C405.2.3 | Full range dimming controllers with daylight sensors in primary and secondary daylight zones. | Daylight responsive controls are required in spaces of more than 150 Watts of primary sidelight or top light daylight zones. Additionally, within 300 Watts of a sidelight zone will have a secondary daylight zone in from the window 1 times the height of the window to the floor. Shall dim continuously from full to 20% of full light output. Secondary daylight zones shall extend 2 times the height of the fenestration. |

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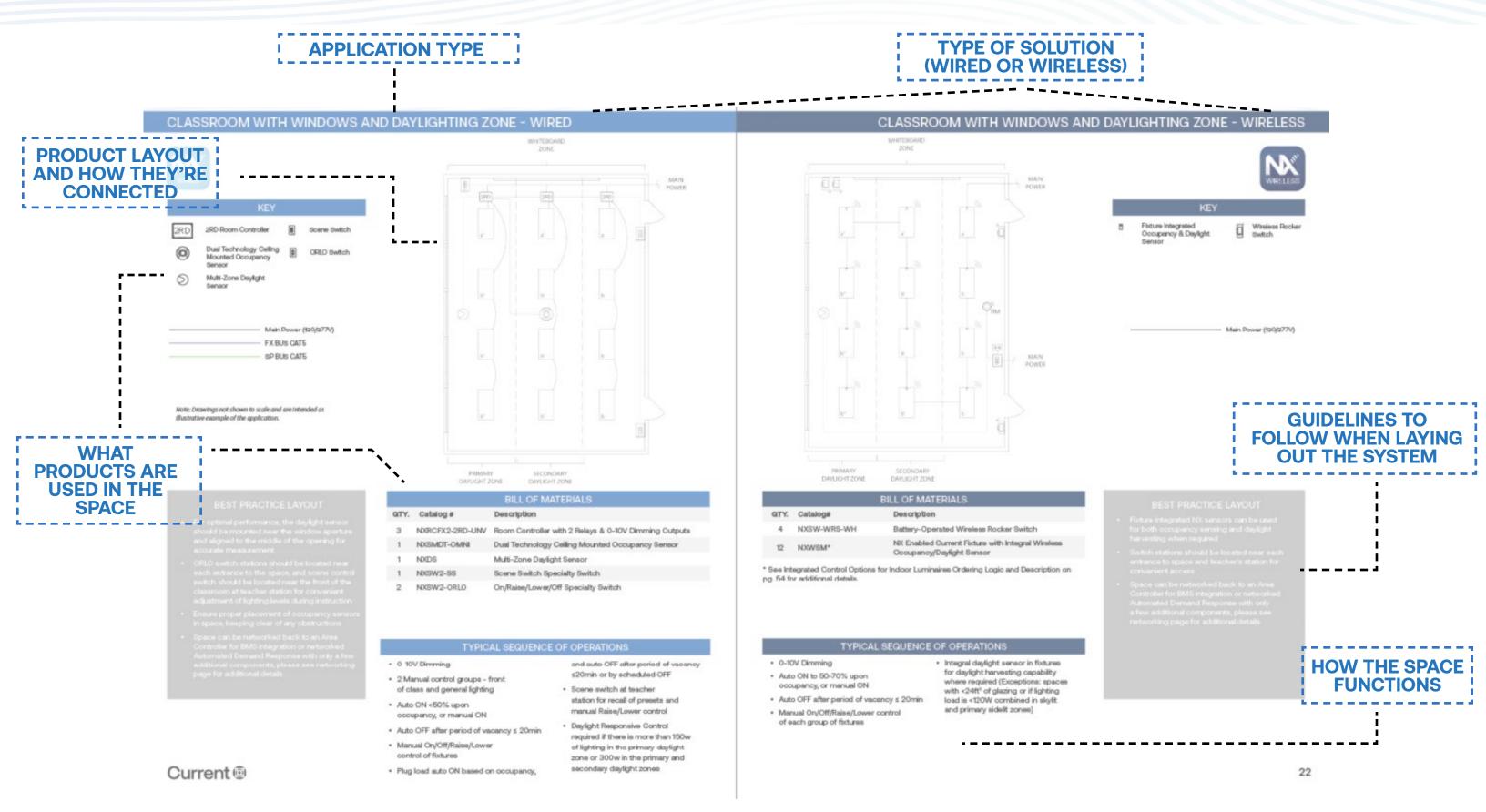
NOTES



HOW TO USE THIS GUIDE

IECC APPLICATION GUIDE





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ENCLOSED OFFICE OR OPEN OFFICE <300ft2 - WIRED

ENCLOSED OFFICE OR OPEN OFFICE <300ft2 - WIRELESS



KEY

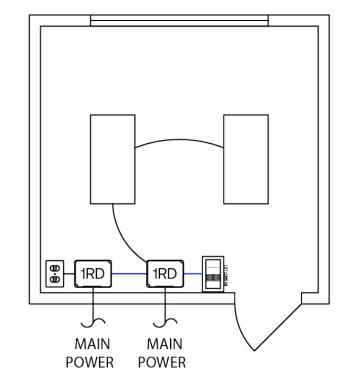
1RD Room Controller

Dual Technology Wall Switch Occupancy

Controlled Receptacle

Main Power (120/277V) FX BUS CAT5

Note: Drawings not shown to scale and are intended as illustrative example of the application.



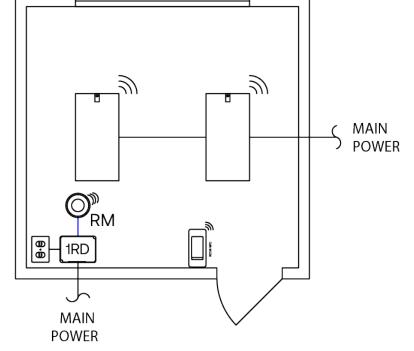
BEST PRACTICE LAYOUT

- NX LightHAWK can be used for occupancy sensing, daylight harvesting, as well as manu-on/raise/lower/off control of lighting load in

| | | BILL OF MATERIALS |
|------|-----------------|---|
| QTY. | Catalog # | Description |
| 1 | NXSMDT-LH1 | Dual Technology Wall Switch Occupancy Sensor |
| 2 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output |

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- · Lighting Manual ON/Auto OFF after period of vacancy ≤ 20 min
- Manual On/Off/Raise/Lower control of fixtures
- Plug load auto ON based on occupancy, and auto OFF after period of vacancy ≤ 20min or scheduled to turn off based on time clock
- Daylight Responsive Control required if there is more than 150w of lighting in the primary daylight zone or 300w in the primary and secondary daylight zones



| 1RI | | 1RD Room Controller | | Wireless Rocke Switch |
|-----|----|---|----------------------|---|
| | RM | Radio Module Controlled Receptacle | e | Fixture Integrated Occupancy & Daylight Sensor |
| | | | - Main P - FX BUS | ower (120/277V) S CAT5 |
| | | : Drawings not shown to scal rative example of the applica | | intended as |

KEY

| BILL OF MATERIALS | | | | |
|-------------------|-----------------|---|--|--|
| QTY. | Catalog # | Description | | |
| 1 | NXSW-WRS-WH | Battery-Operated Wireless Rocker Switch | | |
| 1 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output | | |
| 1 | NXRM2-H | Radio Module | | |
| 2 | NXWSM* | NX Enabled Current Fixture with Integral Wireless Occupancy/Daylight Sensor | | |

* See Integrated Control Options for Indoor Luminaires Ordering Logic and Description on pg. 50 for additional details

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- · Lighting Manual ON/Auto OFF after period of vacancy ≤ 20 min
- Manual On/Off/Raise/Lower control of fixtures
- · Plug load auto ON based on occupancy, and auto OFF after period of vacancy ≤ 20min or scheduled to turn off based on time clock
- Integral daylight sensor in fixtures for daylight harvesting where required (more than 150w of lighting in the primary daylight zone or 300w in the primary and secondary daylight zones)



IECC APPLICATION GUIDE



OPEN OFFICE >300ft2 WITH WINDOWS AND DAYLIGHTING ZONE - WIRED

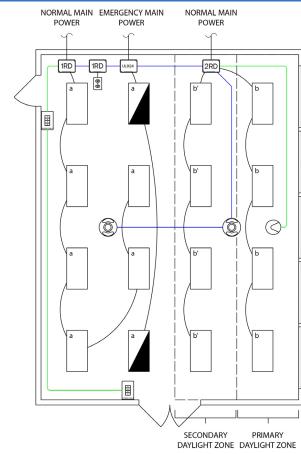


KEY UL924 1RD Room Controller **Dual Technology Ceiling** ORLO Switch Mounted Occupancy 2RD Room Controller Multi-Zone Daylight Controlled Receptacle Main Power (120/277V) FX BUS CAT5 SP BUS CAT5

Note: Drawings not shown to scale and are intended as illustrative example of the application.

BEST PRACTICE LAYOUT

- Switch stations should be located near each



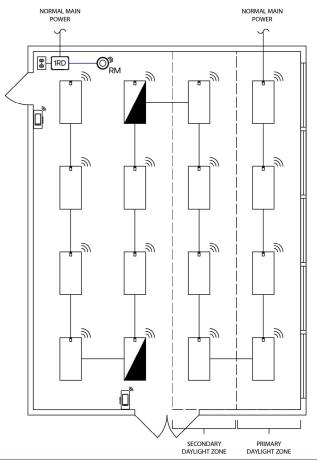
| BILL OF MATERIALS | | | |
|-------------------|-----------------|---|--|
| QTY. | Catalog # | Description | |
| 2 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output | |
| 2 | NXSW2-ORLO | On/Raise/Lower/Off Specialty Switch | |
| 1 | NXRCFX2-2RD-UNV | Room Controller with 2 Relays & 0-10V Dimming Outputs | |
| 2 | NXSMDT-OMNI | Dual Technology Ceiling Mounted Occupancy Sensor | |
| 1 | NXDS | Multi-Zone Daylight Sensor | |
| 1 | NXRC-UL924-UNV | Emergency Room Controller with 1 Relay & (2) 0-10V Dimming Outputs | |

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- · Auto ON upon occupancy for each occupancy control zone not exceeding 600ft²
- · Auto OFF after period of vacancy ≤ 20min for each occupancy zone
- Manual On/Off/Raise/Lower control of fixtures

- · Plug load auto ON based on occupancy, and auto OFF after period of vacancy ≤ 20min or scheduled to turn off based on time clock
- Daylight Responsive Control required if there is more than 150w of lighting in the primary daylight zone or 300w in the primary and secondary daylight zones

OPEN OFFICE >300ft2 WITH WINDOWS AND DAYLIGHTING ZONE - WIRELESS



Wiring shown assumes emergency fixtures ordered with integral battery backup. Please see fixture spec sheet for details on ordering options.

BILL OF MATERIALS QTY. Catalog # Description NXRCFX2-1RD-UNV Room Controller with 1 Relay & 0-10V Dimming Output NXRM2-H Radio Module NXSW-WRS-WH Battery-Operated Wireless Rocker Switch NX Enabled Current Fixture with Integral Wireless NXWSM* Occupancy/Daylight Sensor

*See Integrated Control Options for Indoor Luminaires Ordering Logic and Description on pg. 50 for additional details

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- · Auto ON upon occupancy for each occupancy control zone not exceeding 600ft²
- · Auto OFF after period of vacancy ≤ 20min for each occupancy zone
- · Manual On/Off/Raise/Lower control of fixtures

- Plug load auto ON based on occupancy, auto OFF after period of vacancy ≤ 20min
- · Fixture Integrated Daylight Responsive Control required if there is more than 150w of lighting in the primary daylight zone or 300w in the primary and secondary daylight zones



KEY

1RD Room Controller

Fixture Integrated Occupancy & Daylight Sensor

Wireless Rocker

Radio Module

Controlled

Receptacle

Main Power (120/277V) FX BUS CAT5

Note: Drawings not shown to scale and are intended as *illustrative example of the application*.

- Switch stations should be located near each

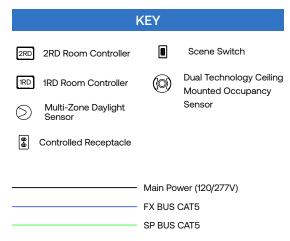


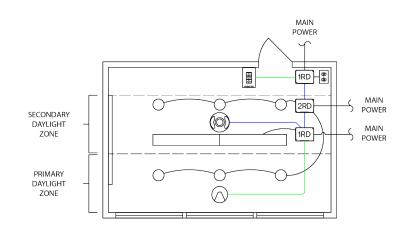
IECC APPLICATION GUIDE

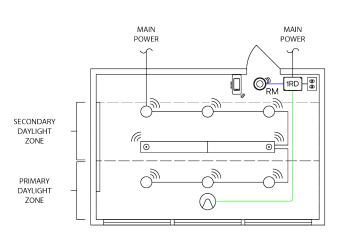


CONFERENCE ROOM - WIRED CONFERENCE ROOM - WIRELESS











Multi-Zone Daylight
Sensor

IRD 1RD Room Controller

Wireless Rocker
Switch

Controlled Receptacle

Main Power (120/277V)

FX BUS CAT5

SP BUS CAT5

KEY

Note: Drawings not shown to scale and are intended as illustrative example of the application.

Note: Drawings not shown to scale and are intended as illustrative example of the application.

BEST PRACTICE LAYOUT

- For optimal performance, the daylight sensor should be mounted near the window aperture and aligned to the middle of the opening for accurate measurement
- Switch stations should be located near each entrance to the space
- in space, keeping clear of any obstructions
- Space can be networked back to an Area Controller for BMS integration or networked Automated Demand Response with only a few additional components, please see networking page for additional details

| BILL OF MATERIALS | | | |
|-------------------|-----------------|---|--|
| QTY. | Catalog # | Description | |
| 2 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output | |
| 1 | NXSW2-SS | Scene Switch Specialty Switch | |
| 1 | NXRCFX2-2RD-UNV | Room Controller with 2 Relays & 0-10V Dimming Outputs | |
| 1 | NXSMDT-OMNI | Dual Technology Ceiling Mounted Occupancy Sensor | |
| 1 | NXDS | Multi-Zone Daylight Sensor | |

| TYPICAL S | SEQUENCE C | F OPERATIO | NS |
|-----------|------------|------------|----|

- 0-10V Dimmable fixtures
- Auto ON <50% upon occupancy, or manual ON
- Auto OFF after period of vacancy ≤20min
- Scene switch for recalling programmed presets and manual Raise/Lower of activated scene
- Plug load auto ON based on occupancy, or OFF based on time clock
- Ceiling mounted daylight sensor for multi-zone daylight harvesting where required (Exceptions: in spaces with less than 150w of lighting in the primary daylight zone or 300w in the primary and secondary daylight zone)

| BILL OF MATERIALS | | | |
|-------------------|-----------------|--|--|
| QTY. | Catalog # | Description | |
| 1 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output | |
| 1 | NXRM2-H | Radio Module | |
| 1 | NXSW-WRS-WH | Battery-Operated Wireless Rocker Switch | |
| 1 | NXDS | Multi-Zone Daylight Sensor | |
| 2 | NXWRM* | NX Enabled Current Fixture with Integral Wireless Occupancy/Daylight Sensor | |

^{*} See Integrated Control Options for Indoor Luminaires Ordering Logic and Description on pg. 50 for additional details.

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- Auto ON to 50-70% upon occupancy, or manual ON
- Auto OFF after period of vacancy ≤20min
- Scene switch for recalling programmed presets and manual Raise/Lower of activated scene
- Plug load auto ON based on occupancy, and auto OFF after period of vacancy ≤20min
- Ceiling mounted daylight sensor for multi-zone daylight harvesting where required (more than 150w of lighting in the primary daylight zone or 300w in the primary and secondary daylight zones)

- For optimal performance, the daylight sensor should be mounted near the window aperture and aligned to the middle of the opening for accurate measurement
- Switch stations should be located near each entrance to the space
- Space can be networked back to an Area Controller for BMS integration or networked Automated Demand Response with only a few additional components, please see networking page for additional details
- For indoor spaces, place radios within 100' line of sight of at least two other wireless devices



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CLASSROOM WITH WINDOWS AND DAYLIGHTING ZONE - WIRED



KEY

2RD Room Controller



ORLO Switch

Dual Technology Ceiling

Mounted Occupancy Sensor

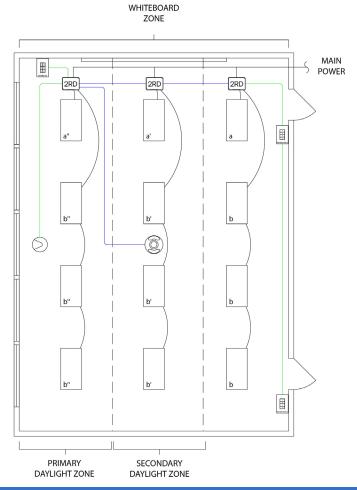
Multi-Zone Daylight

Main Power (120/277V) FX BUS CAT5 SP BUS CAT5

Note: Drawings not shown to scale and are intended as illustrative example of the application.

BEST PRACTICE LAYOUT

- should be mounted near the window aperture and aligned to the middle of the opening for



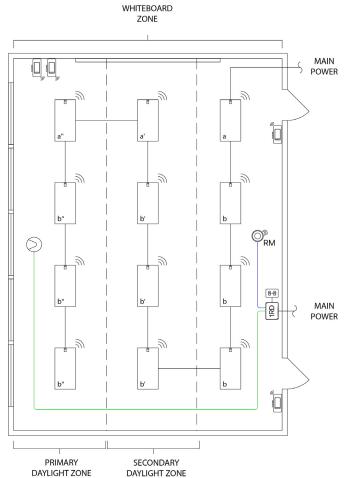
| BILL OF MATERIALS | | | |
|-------------------|-----------------|---|--|
| QTY. | Catalog # | Description | |
| 3 | NXRCFX2-2RD-UNV | Room Controller with 2 Relays & 0-10V Dimming Outputs | |
| 1 | NXSMDT-OMNI | Dual Technology Ceiling Mounted Occupancy Sensor | |
| 1 | NXDS | Multi-Zone Daylight Sensor | |
| 1 | NXSW2-SS | Scene Switch Specialty Switch | |
| 2 | NXSW2-ORLO | On/Raise/Lower/Off Specialty Switch | |

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimming
- 2 Manual control groups front of class and general lighting
- Auto ON <50% upon occupancy, or manual ON
- Auto OFF after period of vacancy ≤ 20min
- · Manual On/Off/Raise/Lower control of fixtures
- · Plug load auto ON based on occupancy,

- and auto OFF after period of vacancy ≤20min or by scheduled OFF
- · Scene switch at teacher station for recall of presets and manual Raise/Lower control
- Daylight Responsive Control required if there is more than 150w of lighting in the primary daylight zone or 300w in the primary and secondary daylight zones

CLASSROOM WITH WINDOWS AND DAYLIGHTING ZONE - WIRELESS



| | MAIN POWER | | |
|----------|-------------------|--|--|
| | > | | |
| M | | | |
| 1RD — ⊕. | MAIN POWER | | |
| | , | | |
| | | | |

| • | Fixture Integrated Occupancy & Daylight Sensor | | Wireless Rocker Switch |
|------------|--|-----------|---------------------------|
| \bigcirc | Multi-Zone Daylight Sensor | | Radio Module |
| 1RD | 1RD Room Controller | 9 | Controlled Receptacle |
| | | | |
| _ | | — Main Po | ower (120/277V) |

KEY

Note: Drawings not shown to scale and are intended as illustrative example of the application.

| BILL OF MATERIALS | | | |
|-------------------|-----------------|--|--|
| QTY. | Catalog# | Description | |
| 4 | NXSW-WRS-WH | Battery-Operated Wireless Rocker Switch | |
| 12 | NXWSM* | NX Enabled Current Fixture with Integral Wireless Occupancy/Daylight Sensor | |
| 1 | NXRM2-H | Radio Module | |
| 1 | NXDS | Multi-Zone Daylight Sensor | |
| 1 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output | |

^{*} See Integrated Control Options for Indoor Luminaires Ordering Logic and Description on pg. 50 for additional details.

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimming
- Auto ON to 50-70% upon occupancy, or manual ON
- Auto OFF after period of vacancy ≤ 20min
- Manual On/Off/Raise/Lower control of each group of fixtures
- Integral Daylight Responsive Control required if there is more than 150w of lighting in the primary daylight zone or 300w in the primary and secondary daylight zones



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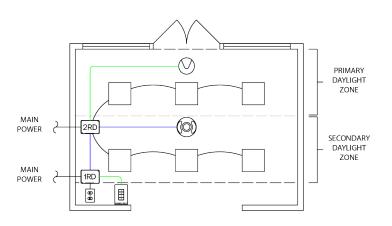
LOBBY - WIRED LOBBY - WIRELESS

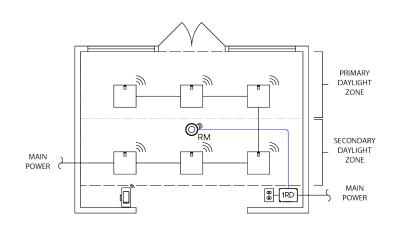


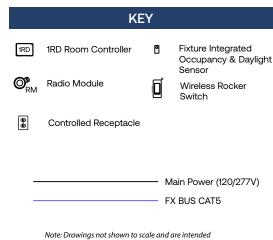


Multi-Zone Daylight Sensor Multi-Zone Daylight Mounted Occupancy Sensor IRD 1RD Room Controller ORLO Switch ZRD 2RD Room Controller Main Power (120/277V) FX BUS CAT5 SP BUS CAT5

Note: Drawings not shown to scale and are intended as illustrative example of the application.







as illustrative example of the application.

BEST PRACTICE LAYOUT

- For optimal performance, the daylight sensor should be mounted near the window aperture and aligned to the middle of the opening for accurate measurement
- Switch stations should be located near each entrance to the space
- Ensure proper placement of occupancy sensors in space, keeping clear of any obstructions
- Controller for BMS integration or networked
 Automated Demand Response with only a few
 additional components, please see networking
 page for additional details

| BILL OF MATERIALS | | | | |
|-------------------|-----------------|---|--|--|
| QTY. | Catalog # | Description | | |
| 1 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output | | |
| 1 | NXRCFX2-2RD-UNV | Room Controller with 2 Relays & 0-10V Dimming Outputs | | |
| 1 | NXSMDT-OMNI | Dual Technology Ceiling Mounted Occupancy Sensor | | |
| 1 | NXSW2-ORLO | On/Raise/Lower/Off Specialty Switch | | |
| 1 | NXDS | Multi-Zone Daylight Sensor | | |

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- Auto ON to Full
- Auto OFF after period of vacancy ≤20min
- Manual On/Off/Raise/Lower control of fixtures
- Plug load auto ON based on occupancy, and auto OFF after period of vacancy ≤20min
- Daylight Responsive Control required if there is more than 150w of lighting in the primary daylight zone or 300w in the primary and secondary daylight zones

| BILL OF MATERIALS | | | |
|-------------------|-----------------|--|--|
| QTY. | Catalog # | Description | |
| 1 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output | |
| 1 | NXRM2-H | Radio Module | |
| 1 | NXSW-WRS-WH | Battery-Operated Wireless Rocker Switch | |
| 6 | NXWSM* | NX Enabled Current Fixture with Integral Wireless Occupancy/Daylight Sensor | |

^{*} See Integrated Control Options for Indoor Luminaires Ordering Logic and Description on pg. 50 for additional details.

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- Auto ON to Full
- Auto OFF after period of vacancy ≤20min
- Manual On/Off/Raise/Lower control of fixtures
- Plug load auto ON based on occupancy, and auto OFF after period of vacancy ≤20min
- Integral Daylight Responsive Control required if there is more than 150w of lighting in the primary daylight zone or 300w in the primary and secondary daylight

- Fixture integrated NX sensors can be used for both occupancy sensing and daylight harvesting when required
- For indoor spaces, place radios within 100' lin of sight of at least two other wireless devices
- Switch stations should be located near each entrance to the space
- Space can be networked back to an Area
 Controller for BMS integration or networked
 Automated Demand Response with only a few
 additional components, please see networking
 page for additional details



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ELEVATOR LOBBY - WIRED

ELEVATOR LOBBY - WIRELESS



KEY

(0)

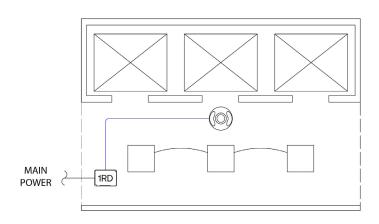
1RD Room Controller

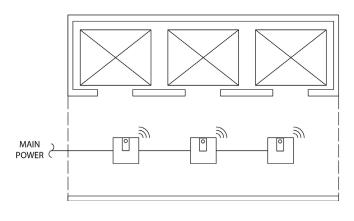
Dual Technology Ceiling Mounted Occupancy Sensor

Main Power (120/277V)

FX BUS CAT5

Note: Drawings not shown to scale and are intended as illustrative example of the application.







Fixture Integrated
Occupancy & Daylight
Sensor

———— Main Power (120/277V)

Note: Drawings not shown to scale and are intended as illustrative example of the application.

BEST PRACTICE LAYOUT

- For optimal performance, the daylight sensor should be mounted near the window aperture and aligned to the middle of the opening for accurate measurement.
- Ensure proper placement of occupancy sensors in space, keeping clear of any obstructions
- Space can be networked back to an Area
 Controller for BMS integration or networked
 Automated Demand Response with only a few
 additional components, please see networking
 page for additional details

| BILL OF MATERIALS | | | |
|-------------------|-----------------|---|--|
| QTY. | Catalog # | Description | |
| 1 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output | |
| 1 | NXSMDT-OMNI | Dual Technology Ceiling Mounted Occupancy Sensor | |

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- Auto ON to Full
- Reduce lighting to 50% power after a period of vacancy ≤20 min
- Daylight Responsive Control required if there is more than 150w of lighting in the primary daylight zone or 300w in the primary and secondary daylight zones.

| | BILL OF MATERIALS | | | |
|------|-------------------|---|--|--|
| QTY. | Catalog # | Description | | |
| 1 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output | | |
| 1 | NXRM2-H | Radio Module | | |
| 6 | NXWSM* | NX Enabled Current Fixture with Integral Wireless Occupancy/Daylight Sensor | | |

^{*} See Integrated Control Options for Indoor Luminaires Ordering Logic and Description on pg. 50 for additional details.

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- Auto ON to Full
- Reduce lighting to 50% power after a period of vacancy ≤20 min
- Integral Daylight Responsive Control required if there is more than 150w of lighting in the primary daylight zone or 300w in the primary and secondary daylight zones

- Fixture integrated NX sensors can be used for both occupancy sensing and daylight harvesting when required.
- For indoor spaces, place radios within 100' lin of sight of at least two other wireless devices
- Space can be networked back to an Area Controller for BMS integration or networked Automated Demand Response with only a fev additional components, please see networkin page for additional details



IECC APPLICATION GUIDE



CORRIDOR - WIRED CORRIDOR - WIRELESS





1RD Room Controller



Dual Technology Ceiling Mounted Occupancy

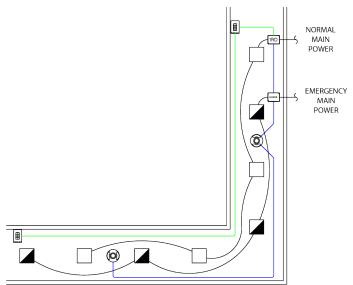


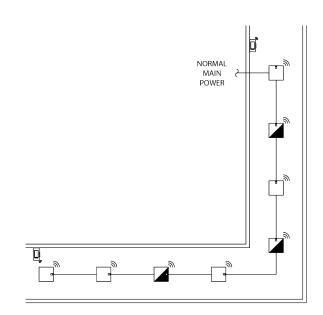
UL924 Room

ORLO Switch

Main Power (120/277V) FX BUS CAT5 SP BUS CAT5

Note: Drawings not shown to scale and are intended as illustrative example of the application





Wireless Rocker Fixture Integrated Occupancy & Daylight

Main Power (120/277V)

KEY

Note: Drawings not shown to scale and are intended as illustrative example of the application.

BEST PRACTICE LAYOUT

| BILL OF MATERIALS | | |
|-------------------|-----------------|--|
| QTY. | Catalog # | Description |
| 1 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output |
| 1 | NXRC-UL924-UNV | UL924 Emergency Room Controller with 1 Relay & (2) 0-10V Dimming Outputs |
| 2 | NXSW2-ORLO | On/Raise/Lower/Off Specialty Switch |
| 2 | NXSMDT-OMNI | Dual Technology Ceiling Mounted Occupancy Sensor |

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- · Auto full ON upon occupancy
- Partial OFF to ≤50% after period of vacancy ≤ 20min
- Manual On/Off/Raise/ Lower control of fixtures

* See Integrated Control Options for Indoor Luminaires Ordering Logic and Description on pg. 50 for additional details.

Occupancy/Daylight Sensor

Wiring shown assumes emergency fixtures ordered with integral battery backup. Please see

BILL OF MATERIALS

Battery-Operated Wireless Rocker Switch NX Enabled Current Fixture with Integral Wireless

Description

TYPICAL SEQUENCE OF OPERATIONS

• 0-10V Dimmable fixtures

QTY. Catalog #

2 NXSW-WRS-WH

NXWSM*

· Auto full ON upon occupancy

fixture spec sheet for details on ordering options.

- Partial OFF to ≤50% after period of vacancy ≤ 20min
- Manual On/Off/Raise/ Lower control of fixtures



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PUBLIC RESTROOM - WIRED PRIVATE OR SINGLE RESTROOM - WIRED



KEY

1RD Room Controller



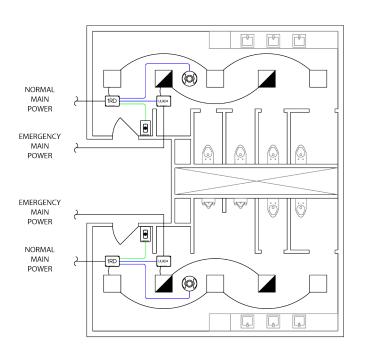
Key Switch

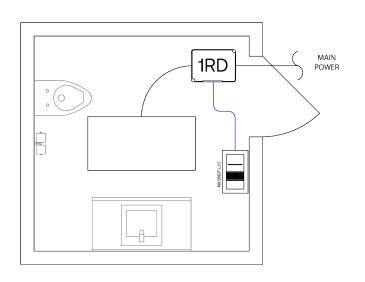
UL924 Room

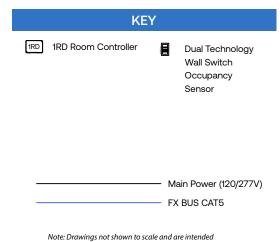
Dual Technology Ceiling Mounted Occupancy Sensor

Main Power (120/277V) FX BUS CAT5 SP BUS CAT5

Note: Drawings not shown to scale and are intended







as illustrative example of the application.

BEST PRACTICE LAYOUT

| BILL OF MATERIALS | | | |
|-------------------|-----------------|---|--|
| QTY | . Catalog # | Description | |
| 2 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output | |
| 2 | NXRC-UL924-UNV | UL924 Emergency Room Controller with 1 Relay & (2) 0-10V Dimming Outputs | |
| 2 | NXSW2-KEY | Digital Key Switch | |
| 2 | NXSMDT-OMNI | Dual Technology Ceiling Mounted Occupancy Sensor | |

| Catalog # | Description |
|----------------|---|
| XRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output |
| XRC-UL924-UNV | UL924 Emergency Room Controller with 1 Relay & (2) 0-10V Dimming Outputs |
| XSW2-KEY | Digital Key Switch |
| XSMDT-OMNI | Dual Technology Ceiling Mounted Occupancy Sensor |
| | |

| TYPICAL | SEQUE | NCE OF | OPERAT | IONS |
|----------------|-------|--------|---------------|------|

- 0-10V Dimmable fixtures
- Auto ON to Full
- Auto OFF after period of vacancy ≤20min

| BILL OF MATERIALS | | |
|-------------------|-----------------|---|
| QTY. | Catalog # | Description |
| 1 | NXSMDT-LH1 | Dual Technology Wall Switch Occupancy Sensor |
| 1 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output |

- 0-10V Dimmable fixtures
- Auto ON to Full upon occupancy, or manual
- Auto OFF after period of vacancy ≤20min
- Manual On/Off/Raise/Lower control of fixtures

- sensing, daylight harvesting, as well as manual on/raise/lower/off control of lighting



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WAREHOUSE - WIRED WAREHOUSE - WIRELESS



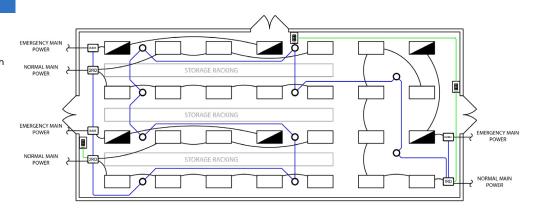


ZRD 2RD Room Controller High Mount PIR Occupancy Sensor UL924 Room Controller UL924 Room Controller RD 1RD Room Controller

Main Power (120/277V)

FX BUS CAT5

SP BUS CAT5



EMERGENCY NORMAL
MAIN
POWER POWER

STORAGE RACKING

STORAGE RACKING

O O O O O NORMAL
MAIN
POWER

NORMAL
MAIN
POWER

NORMAL
MAIN
POWER

KEY Fixture

Integrated
Occupancy &
Daylight Sensor

Main Power (120/277V)

Note: Drawings not shown to scale and are intended as illustrative example of the application.

Wireless Rocker

Switch

Note: Drawings not shown to scale and are intended as illustrative example of the application.

BEST PRACTICE LAYOUT

- Switch stations should be located near each entrance to the space.
- Ensure proper placement of occupancy sensors in space, keeping clear of any obstructions
- Space can be networked back to an Area Controller for BMS integration or networked Automated Demand Response with only a few additional components, please see networking page for additional details

| BILL OF MATERIALS | | |
|-------------------|-----------------|--|
| QTY. | Catalog # | Description |
| 2 | NXRCFX2-2RD-UNV | Room Controller with 2 Relays & 0-10V Dimming Outputs |
| 5 | NXRC-UL924-UNV | UL924 Emergency Room Controller with 1 Relay & (2) 0-10V Dimming Outputs |
| 10 | NXSMP2-HMO | High Mount PIR Occupancy Sensor |
| 1 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output |
| 3 | NXSW2-8 | 8-Button Smart Switch |

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- Auto full ON upon occupancy
- Partial OFF to ≤50% after period of vacancy ≤ 20min
- Full off by Occupancy Sensor "grace period" or time schedule
- Manual On/Off/Raise/Lower control of fixtures

Wiring shown assumes emergency fixtures ordered with integral UL924 dimming bypass module. Please see fixture spec sheet for details on ordering options.

| | | BILL OF MATERIALS |
|------|-------------|--|
| QTY. | Catalog # | Description |
| 3 | NXSW-WRS-WH | Battery-Operated Wireless Rocker Switch |
| 28 | NXWHM* | NX Enabled Current Fixture with Integral Wireless Occupancy/Daylight Sensor |

^{*} See Integrated Control Options for Indoor Luminaires Ordering Logic and Description on pg. 50 for additional details.

BEST PRACTICE LAYOUT

- Fixture integrated NX sensors can be used for both occupancy sensing and daylight harvesting when required
- Switch stations should be located near each entrance to the space
- Space can be networked back to an Area Controller for BMS integration or networked Automated Demand Response with only a few additional components, please see networking page for additional details

- 0-10V Dimmable fixtures
- Auto full ON upon occupancy
- Partial OFF to ≤50% after period of vacancy ≤ 20min
- Manual On/Off/Raise/Lower control of fixtures
- Full off by Occupancy Sensor "grace period" or time schedule

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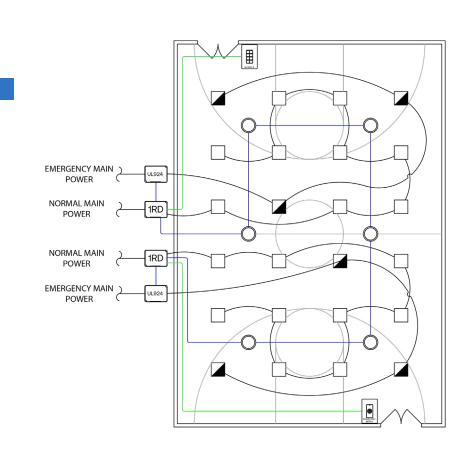


GYMNASIUM - WIRED GYMNASIUM - WIRELESS



KEY 8-Button Switch UL924 Room Controller High Mount 1RD Room Controller PIR Occupancy Sensor Keyswitch Main Power (120/277V) FX BUS CAT5 SP BUS CAT5

Note: Drawings not shown to scale and are intended



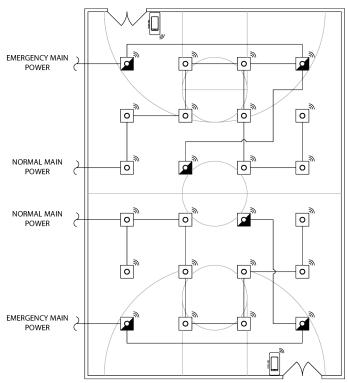
BEST PRACTICE LAYOUT

- Switch stations should be located near each

| BILL OF MATERIALS | | | |
|-------------------|--------------------|--|--|
| QTY. | Catalog # | Description | |
| 2 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output | |
| 1 | NXSW2-8 | 8-Button Smart Switch | |
| 6 | NXSMP2-HMO | High Mount PIR Occupancy & Daylight Sensor | |
| 2 | NXRC-UL924-UNV | Emergency Room Controller with 1 Relay & (2) 0-10V Dimming Outputs | |
| 1 | NXSW2-KEY-MNTD1-WH | Specialty key Switch | |

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- Auto ON to 50-70% upon schedule, or manual ON
- Auto OFF after period of vacancy ≤20min
- Manual ON/OFF/Raise/Lower control of each group of fixtures



Wiring shown assumes emergency fixtures ordered with integral UL924 dimming bypass module. Please see fixture spec sheet for details on ordering options.

| BILL OF MATERIALS | | | |
|-------------------|-------------|---|--|
| QTY. | Catalog # | Description | |
| 2 | NXSW-WRS-WH | Battery-Operated Wireless Rocker Switch | |
| 1 | NXWHM* | NX Enabled Current Fixture with Integral Wireless Occupancy/Daylight Sensor | |

^{*} See Integrated Control Options for Indoor Luminaires Ordering Logic and Description on pg. 50 for additional details.

KEY

Fixture 0 Integrated Occupancy & Daylight Sensor



Wireless Rocker Switch

Main Power (120/277V)

Note: Drawings not shown to scale and are intended as illustrative example of the application.

BEST PRACTICE LAYOUT

- Space can be networked back to an Area Controller for BMS integration or networked Automated Demand Response with only a few additional components, please see networking page for additional details

- 0-10V Dimmable fixtures
- Auto ON to 50-70% upon occupancy, or manual ON
- Auto OFF after period of vacancy ≤20min
- Manual ON/OFF/Raise/Lower control of fixtures



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INTERIOR LEVEL PARKING GARAGE - WIRELESS

SITE WITH PARKING LOT - WIRELESS



ORLO Switch

Fixture Integrated Occupancy & Daylight

KEY

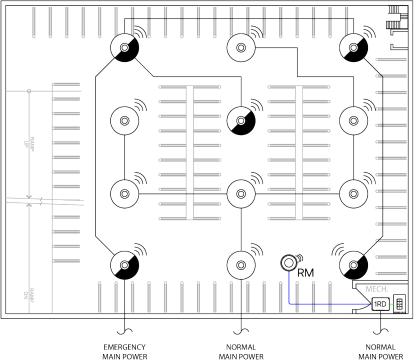
1RD Room Controller

Main Power (120/277V) FX BUS CAT5

Radio Module

Note: Drawings not shown to scale and are intended

BEST PRACTICE LAYOUT



Wiring shown assumes emergency fixtures ordered with integral UL924 dimming bypass module. Please see fixture spec sheet for details on ordering options.

| | | BILL OF MATERIALS |
|------|-----------------|--|
| QTY. | Catalog # | Description |
| 1 | NXRCFX2-1RD-UNV | Room Controller with 1 Relay & 0-10V Dimming Output |
| 1 | NXRM2-H | Radio Module |
| 1 | NXSW2-ORLO | On/Raise/Lower/Off Specialty Switch |
| 12 | NXWS12F | NX Enabled Current Fixture with Integral Wireless Occupancy/Daylight Sensor |

^{*} See Integrated Control Options for Indoor Luminaires Ordering Logic and Description on pg. 50 for additional details



KEY

Fixture Integrated Occupancy & Daylight Sensor

0

Main Power (120/277V)

Note: Drawings not shown to scale and are intended as illustrative example of the application.

BILL OF MATERIALS

SITE BUILDING

MAIN (POWER

| QTY. | Catalog # | Description |
|------|-----------|---|
| 9 | NXWS16F* | NX Enabled Current Fixture with Integral Wireless Occupancy/Daylight Sensor |

o

BEST PRACTICE LAYOUT

- and radios shall be within 300' line of sight of at

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- Auto full ON upon occupancy
- Partial OFF to 70% or less after period of vacancy ≤ 20min
- Luminaires <20ft from open sides shall dim to <50% when sufficient daylight is present
- Manual ON/OFF/Raise/Lower control of fixtures
- Control zones shall have a lighting load of <= 500W per zone, not bigger than 3600ft²

TYPICAL SEQUENCE OF OPERATIONS

- 0-10V Dimmable fixtures
- Integral astronomic time clock enables occupancy sensor operation from dusk to dawn and ensure lights are OFF during the daytime
- Auto full ON upon occupancy during active sensor hours

 Partial OFF to 10-50% after period of vacancy ≤15min when sensors are active



^{*} See Integrated Control Options for Indoor Luminaires Ordering Logic and Description on pg. 50 for additional details

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EXTERIOR PARKING LOT, SITE WITH PARKING LOT - WIRED



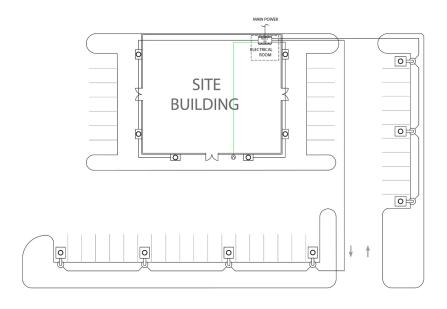
KEY

NXDS Multi-Zone
Daylight Sensor

NXP2 Lighting Control

- Main Power (120/277V) SP BUS CAT5

Note: Drawings not shown to scale and are intended as illustrative example of the application.



| | | BILL OF MATERIALS |
|------|-----------|----------------------------|
| QTY. | Catalog # | Description |
| 1 | NXP2 | Lighting Control Panel |
| 1 | NXDS | Multi-Zone Daylight Sensor |

- 0-10V Dimmable fixtures
- Relay Panel shall utilize a daylight sensor or astronomic schedule to turn lights on at
- Facade and landscape light shall turn off 1 hr after building closing time based on time-clock schedule
- All other lighting shall be reduced to <50% power 1 hr after business closing or Midnight
- Relay Panel shall utilize a daylight sensor or astronomic schedule to turn lights OFF at sunrise

| NOTES | |
|-------|--|
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NETWORK OVERVIEW

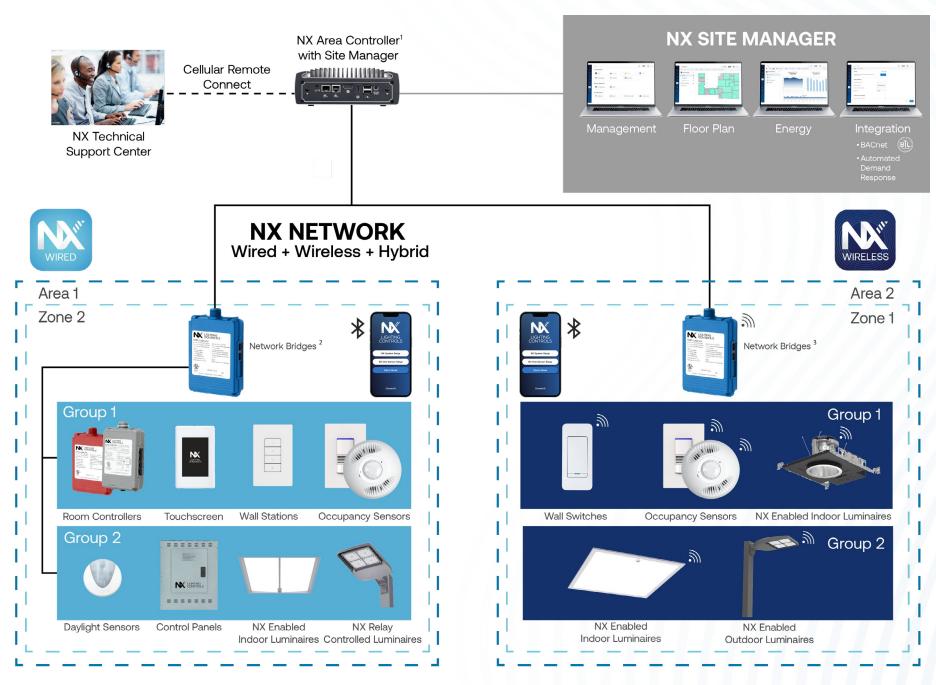
IECC APPLICATION GUIDE



The NX Lighting Controls System provides all the building blocks necessary for a secure, on-premise enterprise lighting management system. The system not only controls lighting, but also provides actionable information to Building Owners and Facility Managers to create energy efficient spaces and improve occupant experience.

NX LIGHTING CONTROL SYSTEM

- Network of device and luminaires organized by Areas / Zones / Groups (AZG)
- NX wired & wireless devices and connected luminaires control lighting using relays and 0-10V dimming
- Wired devices connect using CAT5 cables and provide auto-configuration for basic code compliance
- Wireless devices are grouped together and communicate using secure AES 128-bit encrypted 2.4GHz wireless mesh technology based on the IEEE 802.15.4 standard. Network bridges manage NX Zones and connect wired and wireless zones to the NX Network
- NX Lighting Controls mobile app provides simple tool for quick device and system adjustments
- The NX Area Controller with Site Manager provides Building Owners & Facility Managers with multi-building lighting control, insights into their lighting system, and integration with Building Management Systems (BMS)



SITE MANAGER

- Intuitive web-based, comprehensive lighting management console
- Visual insights into energy usage
- Manage lighting schedules
- Quickly respond to requests for light level changes or reported issues from floor plan views
- Integrate the lighting system to any BACnet compatible Building Management System (BMS)

| PLATFORM SNAPSHOT | | | | | |
|---------------------|--------------|----------------------|-------------------------|---------------------|-------------------|
| Space Type | Architecture | Deployment | Connectivity | Integration Options | Advance Solutions |
| Interior & Exterior | Distributed | Standalone & Network | Wired, Wireless, Hybrid | Contacts, BACnet™, | SpectraSync™ |





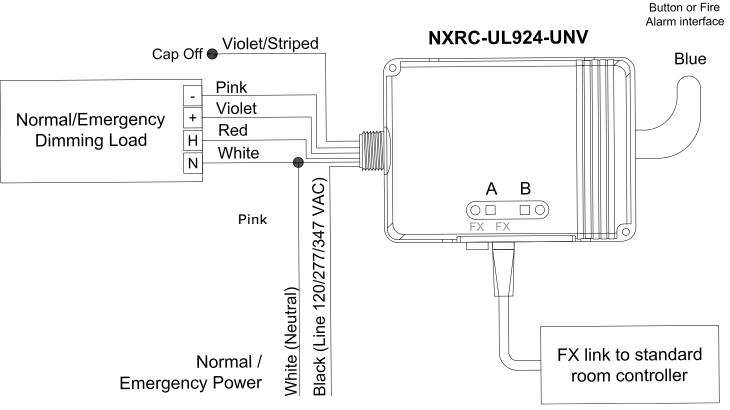
Remote Test

The NX Lighting Controls system offers a completely integrated UL924 solution for emergency lighting controls that is less complicated and easier to install than classic standalone ALCR and BCELTS solutions. The NX UL924 Load Controller removes the need for complicated installations and wiring normally associated with UL924 solutions. The NX UL924 Load Controller senses normal power using a standard CAT5 connection to a NX Room Controller connected to normal power. In the event there is a loss of normal power the NX UL924 Load Controller will automatically bring the lights to full brightness, regardless of their current state. When normal power is restored all lighting returns to normal operation.

- UL924 Listed emergency lighting control device
- Meets NFPA Article 700 requirements for emergency lighting
- Single relay version with dual 0-10V interface for full range dimming control
- Automatically overrides lighting to emergency state upon loss of normal power
- Utilizes CAT5 connection to standard NX room controller for normal power sensing
- · Full range continuous dimming defaults to full ON in emergency mode
- FX bus enabled and compatible with NXRCFX room controllers
- Provision for remote test button or fire alarm interface
- Advanced configuration, power metering, and control through either NX Area Controller or NX Lighting Controls mobile app



NX UL924 SOLUTION



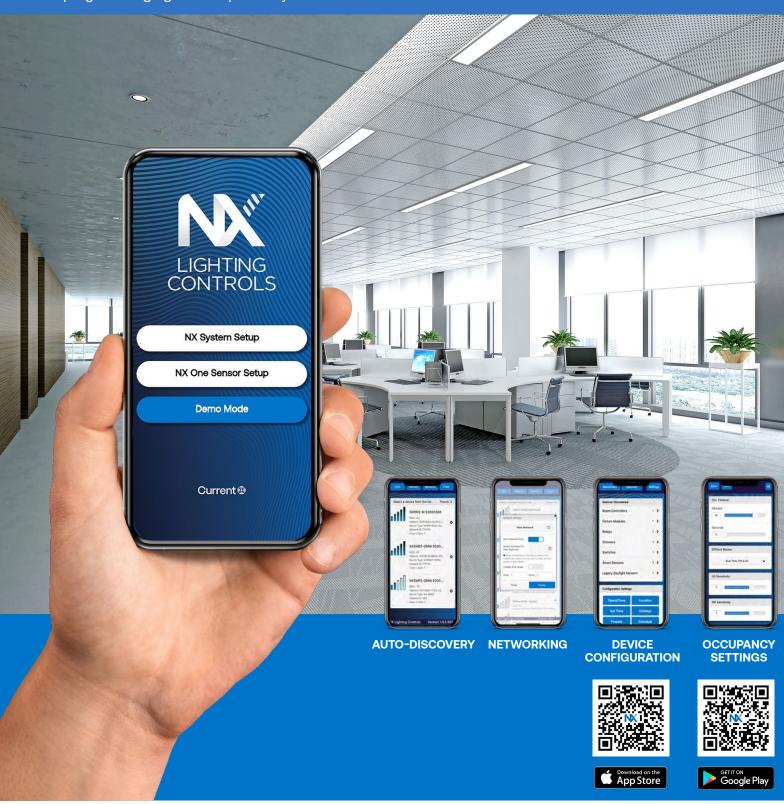


NX LIGHTING CONTROLS MOBILE APP

IECC APPLICATION GUIDE



The NX Lighting Controls mobile app helps provide quick, simple installation, and programming right in the palm of your hand.



The NX Lighting Controls mobile app is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The app allows you to discover and configure wired and wireless devices and setup groups and zones for both standalone and networked NX sites. The app also provides access to IntelliSCOPE™ for real time occupancy data with any digital NX or standalone Bluetooth sensor. The NX Lighting Controls mobile app is available for download on both Apple iOS and Android devices.

- Enables easy setup, configuration and diagnostics of standalone Bluetooth sensors, NX room devices and NXP2 lighting control panels via Bluetooth BLE
- Create custom holidays, schedules, and presets (lighting scenes)
- Set geographical location of site for sunrise/sunset schedules
- Simple configuration of relay and dimmer settings for selected areas and zones
- Passcode protected to prevent unauthorized access to system
- Supports OTA (Over The Air) device updates
- Features IntelliSCOPE™ diagnostic tool for real-time calibration and testing of NX digital smart sensors

All NX wireless sensors come enabled with our proprietary IntelliSCOPE™ functionality, which provides true ladder-less programming and installation all with the click of a button. IntelliSCOPE™ provides real-time occupancy data to help optimize sensor detection in any application, which helps save time and money.





LIGHTING CONTROLS

PRODUCT CATALOG

| CATALOG NO. | DESCRIPTOR | COLORS |
|--------------------|---|--|
| AREA CONTROLLERS | | |
| NXAC2-120-SM | NX Area Controller V2 w/ NX Site Manager, NX Network, BACnet, 120V | Black |
| NXAC2-120-SMA | NX Area Controller V2 w/NX Site Manager Adapter, NX Network, 120V | Black |
| NETWORK DEVICES | | |
| NXHNB2 | NX Network Bridge Module, Connects Wired and Wireless Zones to NX Network, Internal Time Clock, Low Voltage | Blue |
| NXPOE-7-24B | NX POE Switch/Power Injector, Seven RJ45 Powered NX Network Ports, One RJ45 Powered Uplink Port, 24VDC Power Supply (Included) | Black |
| NX-EOF-MC-01 | NX Media Converter, Ethernet Over Fiber, Copper: Single RJ45 Port (10/100BASE-T), Fiber: ST Connector (100BASE-X), 120V | Gray |
| ROOM CONTROLLERS | | |
| NXRCFX2-1RD-UNV | NX Room Controller, FX Bus Compatible, 1 Relay, 0-10V Dimming, Universal Voltage | Gray |
| NXRCFX2-2RD-UNV | NX Room Controller, FX Bus Compatible, 2 Relay, 0-10V Dimming, Universal Voltage | Gray |
| NXRC-UL924-UNV | UL924 Emergency Load Controller, 1 Relay, 0-10V Dimming, Universal Voltage | Red |
| OCCUPANCY SENSORS | | |
| NXSMDT-OMNI-XX | NX Digital Smart Occupancy Sensor, Ceiling Mount, PIR and Ultrasonic, with Daylight Harvesting, Integrated Bluetooth, mini SmartPORT | White, Black, Gray |
| NXSMDT-LH0-XX | NX Digital Smart Occupancy Sensor, Wall Switch, PIR and Ultrasonic, with Daylight Harvesting, Integrated Bluetooth, Dual RJ45 SmartPORT, 0 Button | White, Black, Gray, Ivory, Light Almond, Red |
| NXSMDT-LH1-XX | NX Digital Smart Occupancy Sensor, Wall Switch, PIR and Ultrasonic, with Daylight Harvesting, Integrated Bluetooth, Dual RJ45 SmartPORT, 1 Button | White, Black, Gray, Ivory, Light Almond, Red |
| NXSMDT-LH2-XX | NX Digital Smart Occupancy Sensor, Wall Switch, PIR and Ultrasonic, with Daylight Harvesting, Integrated Bluetooth, Dual RJ45 SmartPORT, 2 Button | White, Black, Gray, Ivory, Light Almond, Red |
| NXSMIR-LHO-XX | NX Digital Smart Occupancy Sensor, Wall Switch, PIR, with Daylight Harvesting, Integrated Bluetooth, Dual RJ45 SmartPORT, 0 Button | White, Black, Gray, Ivory, Light Almond, Red |
| NXSMIR-LH1-XX | NX Digital Smart Occupancy Sensor, Wall Switch, PIR, with Daylight Harvesting, Integrated Bluetooth, Dual RJ45 SmartPORT, 1 Button | White, Black, Gray, Ivory, Light Almond, Red |
| NXSMIR-LH2-XX | NX Digital Smart Occupancy Sensor, Wall Switch, PIR, with Daylight Harvesting, Integrated Bluetooth, Dual RJ45 SmartPORT, 2 Button | White, Black, Gray, Ivory, Light Almond, Red |
| INTEGRATED SENSORS | | |
| NXSMP2-OMNI | NX Digital Smart PIR Occupancy Sensor with Photocell and Bluetooth Programming, 360° Lens | White, Black, Gray |
| NXSMP2-LMI | NX Digital Smart PIR Occupancy Sensor with Photocell and Bluetooth Programming, Low Mount/Indoor, 360° Lens | White, Black, Gray |
| NXSMP2-HMO | NX Digital Smart PIR Occupancy Sensor with Photocell and Bluetooth Programming, High Mount/Outdoor, 360° Lens | White, Black, Gray |
| NXSMP2-LMO | NX Digital Smart PIR Occupancy Sensor with Photocell and Bluetooth Programming, Low Mount/Outdoor, 360° Lens | White, Black, Gray |
| DAYLIGHT SENSORS | | |
| NXDS | NX Daylight Sensor | White |
| NXDS-O | NX Daylight Sensor Outdoor | White |

| CATALOG NO. | DESCRIPTOR | COLORS | | | | | |
|--|--|--|--|--|--|--|--|
| WALL SWITCHES | | | | | | | |
| NXSW2-1-XX | NX Digital Smart Switch, 1 Button, Momentary, Pilot | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW2-2-XX | NX Digital Smart Switch, 2 Button, Momentary, Pilot | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW2-3-XX | NX Digital Smart Switch, 3 Button, Momentary, Pilot | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW2-4-XX | NX Digital Smart Switch, 4 Button, Momentary, Pilot | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW2-5-XX | NX Digital Smart Switch, 5 Button, Momentary, Pilot | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW2-6-XX | NX Digital Smart Switch, 6 Button, Momentary, Pilot | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW2-8-XX | NX Digital Smart Switch, 8 Button, Momentary, Pilot | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW2-ORLO-XX | NX Digital Specialty Switch, On/Raise/Lower/Off | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW2-OO-XX | NX Digital Specialty Switch, On/Off | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW2-SS-XX | NX Digital Specialty Switch, Scene Switch | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW2-CCT-XX | NX Digital Specialty Switch, CCT | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW2-KEY-MNTD1-XX | NX Digital Specialty Key Switch, Maintained 1 Pole/Single Throw | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW2-KEY-MTRY1-XX | NX Digital Specialty Key Switch, Momentary 1 Pole/Single Throw | White, Black, Gray, Ivory, Light Almond, Red | | | | | |
| NXSW-TH3-WH | NX SimpleTouch 3.5" full color graphic wall station | White | | | | | |
| NXSW-WRS-WH | NX Battery Powered Digital Switch Station, 2 Button configurable | White | | | | | |
| INTERFACES | | | | | | | |
| NXCI | NX Contact Closure Interface Module, Removable Terminal Block with 2 Switch Inputs, Dual RJ45 SmartPORTS | Silver | | | | | |
| | NV Audia Viaual Interface Madula Cingle DDO Connector for | | | | | | |
| NXAVM | NX Audio Visual Interface Module, Single DB9 Connector for RS232 Serial Communications, ASCII Based Command Set, Single RJ45 SmartPORT | Silver | | | | | |
| NXAVM NXRO | RS232 Serial Communications, ASCII Based Command Set, Single | Silver | | | | | |
| | RS232 Serial Communications, ASCII Based Command Set, Single RJ45 SmartPORT NX Occupancy Output Interface Module, Low Voltage Form C NO/NC Relay Output, Removable Terminal Block, Dual RJ45 | | | | | | |
| NXRO | RS232 Serial Communications, ASCII Based Command Set, Single RJ45 SmartPORT NX Occupancy Output Interface Module, Low Voltage Form C NO/NC Relay Output, Removable Terminal Block, Dual RJ45 SmartPORTS NX Network Device Interface Module, Connects NXSP and NXCIO | Silver | | | | | |
| NXRO NXHDI | RS232 Serial Communications, ASCII Based Command Set, Single RJ45 SmartPORT NX Occupancy Output Interface Module, Low Voltage Form C NO/NC Relay Output, Removable Terminal Block, Dual RJ45 SmartPORTS NX Network Device Interface Module, Connects NXSP and NXCIO Devices to NX Network, Dual RJ45 SmartPORTS, DIN Rail Mount NX SmartPORT Module, 4 SmartPORTS (8 RJ45 Connectors), DIN | Silver | | | | | |
| NXRO NXHDI NXSP | RS232 Serial Communications, ASCII Based Command Set, Single RJ45 SmartPORT NX Occupancy Output Interface Module, Low Voltage Form C NO/NC Relay Output, Removable Terminal Block, Dual RJ45 SmartPORTS NX Network Device Interface Module, Connects NXSP and NXCIO Devices to NX Network, Dual RJ45 SmartPORTS, DIN Rail Mount NX SmartPORT Module, 4 SmartPORTS (8 RJ45 Connectors), DIN Rail Mount NX Dry Contact Interface Module, 6 Low Voltage Inputs, 6 Form C | Silver Blue | | | | | |
| NXRO NXHDI NXSP NXDCIO | RS232 Serial Communications, ASCII Based Command Set, Single RJ45 SmartPORT NX Occupancy Output Interface Module, Low Voltage Form C NO/NC Relay Output, Removable Terminal Block, Dual RJ45 SmartPORTS NX Network Device Interface Module, Connects NXSP and NXCIO Devices to NX Network, Dual RJ45 SmartPORTS, DIN Rail Mount NX SmartPORT Module, 4 SmartPORTS (8 RJ45 Connectors), DIN Rail Mount NX Dry Contact Interface Module, 6 Low Voltage Inputs, 6 Form C NO/NC Outputs, DIN Rail Mount NX OpenADR 2.0a/2.0b Bidirectional Virtual End Node (VEN) | Silver Blue Blue | | | | | |
| NXRO NXHDI NXSP NXDCIO NXOADR2-VEN-DC | RS232 Serial Communications, ASCII Based Command Set, Single RJ45 SmartPORT NX Occupancy Output Interface Module, Low Voltage Form C NO/NC Relay Output, Removable Terminal Block, Dual RJ45 SmartPORTS NX Network Device Interface Module, Connects NXSP and NXCIO Devices to NX Network, Dual RJ45 SmartPORTS, DIN Rail Mount NX SmartPORT Module, 4 SmartPORTS (8 RJ45 Connectors), DIN Rail Mount NX Dry Contact Interface Module, 6 Low Voltage Inputs, 6 Form C NO/NC Outputs, DIN Rail Mount NX OpenADR 2.0a/2.0b Bidirectional Virtual End Node (VEN) | Silver Blue Blue | | | | | |
| NXRO NXHDI NXSP NXDCIO NXOADR2-VEN-DC RADIO MODULES | RS232 Serial Communications, ASCII Based Command Set, Single RJ45 SmartPORT NX Occupancy Output Interface Module, Low Voltage Form C NO/NC Relay Output, Removable Terminal Block, Dual RJ45 SmartPORTS NX Network Device Interface Module, Connects NXSP and NXCIO Devices to NX Network, Dual RJ45 SmartPORTS, DIN Rail Mount NX SmartPORT Module, 4 SmartPORTS (8 RJ45 Connectors), DIN Rail Mount NX Dry Contact Interface Module, 6 Low Voltage Inputs, 6 Form C NO/NC Outputs, DIN Rail Mount NX OpenADR 2.0a/2.0b Bidirectional Virtual End Node (VEN) Module with Two NO/NC Dry Contact Outputs, 120V NX 7-Pin On-Fixture Module, 1 Relay, 1 Dimmer, Universal Voltage | Silver Blue Blue Blue Black | | | | | |



PRODUCT CATALOG

| CATALOG NO. | COLORS | |
|-------------------------|---|-------|
| ACCESSORIES | | |
| NXRJSPLITTER | NX RJ45 Splitter 2-way Female for CAT5 | lvory |
| RJ45ADAPTER | NX RJ45 Splitter 2-way Female for CAT5 | Gray |
| NXFRD-UNV | NX Forward & Reverse Phase Dimming Converter | Black |
| NXWPS | NX Wall Partition Sensor | White |
| LIGHTING CONTROL PANELS | | |
| NXP2-PNL-8-8-U-S | NX Lighting Control Panel V2, 8 Relay Capacity, 8 Dimming Channels, 8-20A/Single Pole Latching Relays, 120/277VAC, Surface Mount | Gray |
| NXP2-PNL-8-0-U-S | NX Lighting Control Panel V2, 8 Relay Capacity, 8 Dimming Channels, Relays Not Included, 120/277VAC, Surface Mount | Gray |
| NXP2-PNL-16-16-U-S | NX Lighting Control Panel V2, 16 Relay Capacity, 16 Dimming Channels, 16-20A/Single Pole Latching Relays, 120/277VAC, Surface Mount | Gray |
| NXP2-PNL-16-0-U-S | NX Lighting Control Panel V2, 16 Relay Capacity, 16 Dimming Channels, Relays Not Included, 120/277VAC, Surface Mount | Gray |
| NXP2-PNL-24-24-U-S | NX Lighting Control Panel V2, 24 Relay Capacity, 24 Dimming Channels, 24-20A/Single Pole Latching Relays, 120/277VAC, Surface Mount | Gray |
| NXP2-PNL-24-0-U-S | NX Lighting Control Panel V2, 24 Relay Capacity, 24 Dimming Channels, Relays Not Included, 120/277VAC, Surface Mount | Gray |
| NXP2-PNL-32-32-U-S | NX Lighting Control Panel V2, 32 Relay Capacity, 32 Dimming Channels, 32-20A/Single Pole Latching Relays, 120/277VAC, Surface Mount | Gray |
| NXP2-PNL-32-0-U-S | NX Lighting Control Panel V2, 32 Relay Capacity, 32 Dimming Channels, Relays Not Included, 120/277VAC, Surface Mount | Gray |
| NXP2-PNL-48-48-U-S | NX Lighting Control Panel V2, 48 Relay Capacity, 48 Dimming Channels, 48-20A/Single Pole Latching Relays, 120/277VAC, Surface Mount | Gray |
| NXP2-PNL-48-0-U-S | NX Lighting Control Panel V2, 48 Relay Capacity, 48 Dimming Channels, Relays Not Included, 120/277VAC, Surface Mount | Gray |
| RELAYS | | |
| NXP2-RL-SP | NX Lighting Control Panel V2 Relay, Single Pole, Latching, 120/227/347V, 20A-50/60 Hz | Black |
| NXP2-RL-DP | NX Lighting Control Panel V2 Relay, Double Pole, Latching, 208/240/480V, 20A- 50/60 Hz | Black |



| CATALOG NO. | DESCRIPTOR | COLORS | | | |
|----------------------|--|--------|--|--|--|
| | | | | | |
| NX IN-FIXTURE CABLES | | | | | |
| NXCBL-P-10 | NX mini-Smart Port to Female RJ45 Plenum Cable, 10" length | Gray | | | |
| NXCBL-P2-12 | NX mini-Smart Port to Dual RJ45 Plenum Cable, 12" length | | | | |
| CAT5 SYSTEM CABLES | | | | | |
| CAT5-3IN-OR-PLENUM | CAT5 Cable, Plenum Rated, 3IN | Orange | | | |
| CAT5-3F-OR-PLENUM | CAT5 Cable, Plenum Rated, 3F | Orange | | | |
| CAT5-10F-OR-PLENUM | CAT5 Cable, Plenum Rated, 10F | Orange | | | |
| CAT5-25F-OR-PLENUM | CAT5 Cable, Plenum Rated, 25F | Orange | | | |
| CAT5-50F-OR-PLENUM | CAT5 Cable, Plenum Rated, 50F | Orange | | | |
| CAT5-100F-OR-PLENUM | CAT5 Cable, Plenum Rated, 100F | Orange | | | |

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PRODUCT CATALOG



| | | | CONTROL OPTION FUNCTIONALITY | | | | | | | | | LODION |
|-------|---|-------------|---|----------|--|----------|-------------------|--|----------|----------------|----|----------------------|
| | NX Integrated Control Options for Indoor Luminaires Ordering Logic and Description | Networkable | Networkable Grouping Scheduling Motion Ha | | cy/ Daylight 0-10V Harvesting Dimming | | On/Off Control | Bluetooth® Senso App Max Programming Heigl | | lax COMPONENTS | | |
| NXW | NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor | ~ | ✓ | ✓ | - | - | ✓ | ✓ | ✓ | - | | NXRM2-H |
| NXWSM | NX Networked Wireless Enabled Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming | ~ | ✓ | ~ | ✓ | ~ | ~ | ~ | ~ | 12FT | | NXSMP2-SMI |
| NXWRM | NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming | ~ | ~ | ✓ | ~ | ✓ | ~ | ✓ | ~ | 12FT | | NXSMP2-LMI |
| NXWOM | NX Networked Wireless Enabled Integral NXSMP2-OMNI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming | ~ | ~ | ~ | ~ | ✓ | ~ | ~ | ~ | 14FT | 6 | NXSMP2-OMNI |
| NXWLM | NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming | ✓ | ~ | ~ | ~ | ✓ | ~ | ✓ | ~ | 16FT | | NXSMP2-LMO |
| NXWHM | NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming | ✓ | ~ | ~ | ~ | ✓ | ~ | ✓ | ~ | 45FT | 6 | NXSMP2-HMO |
| NXE | NX Wired Dual RJ45 SmartPORTS, without Sensor | ~ | ~ | ~ | | <u> </u> | ~ | ~ | ✓ | - | | NXDSP |
| NXESM | NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming | ~ | ✓ | ~ | ~ | ~ | ~ | ✓ | ~ | 12FT | | NXDSP NXSMP2-SMI |
| NXERM | NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming | ~ | ~ | ~ | ✓ | ~ | ~ | ✓ | ✓ | 12FT | | NXDSP NXSMP2-LMI |
| NXEOM | NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-OMNI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming | ~ | ~ | ~ | ✓ | ~ | ~ | ✓ | ~ | 14FT | 6- | NXDSP NXSMP2-OMNI |
| NXELM | NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming | ~ | ~ | ~ | ~ | ~ | ~ | ✓ | ~ | 16FT | | NXDSP NXSMP2-LMO |
| NXEHM | NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming | ~ | ~ | ~ | ✓ | ~ | ~ | ~ | ✓ | 45FT | 6 | NXDSP NXSMP2-HMO |

^{*}Please reference Current luminaire specification sheets for option availability.

PRODUCT CATALOG



| | NX Integrated Control Options for Outdoor Luminaires Ordering Logic and Description | | CONTROL OPTION FUNCTIONALITY | | | | | | | | | CONTROL OPTION |
|-------------|---|---|------------------------------|----------|------------|-----------|------------------------|------------------|-------------------|------------------------------|-------------------------|--------------------|
| | | | Networkable | Grouping | Scheduling | Occupancy | Daylight Harvesting | 0-10V Dimming | On/Off Control | Bluetooth App Programming | Sensor Max Height | COMPONENTS |
| | NXOFM-1R1D-UNV (sold separate from luminaire) | NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming | ✓ | ✓ | ✓ | - | ✓ | ✓ | ~ | ~ | - | NXOFM- 1R1D-UNV |
| NX Wireless | NXW | NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor | ✓ | ✓ | ✓ | _ | \-\ | ✓ | ✓ | ~ | - | NXRM2-H |
| | NXWS12F | NX Networked Wireless Enabled Integral NXSMP2-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming | ✓ | ✓ | ✓ | ✓ | ✓ | ~ | ~ | ~ | 14FT | NXSMP2- OMNI-O |
| Z | NXWS16F | NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming | ✓ | ✓ | ✓ | ✓ | ~ | ✓ | ~ | ~ | 16FT | NXSMP2- LMO |
| | NXWS40F | NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming | ~ | ~ | ✓ | ✓ | ~ | ~ | ~ | ~ | 40FT | NXSMP2- HMO |

 $^{{}^{\}star}\text{Please}$ reference Current luminaire specification sheets for option availability.

Comprehensive Support Options to Meet Project Needs

Contact Us

Call (800) 888-8006 and select one of the options listed below





Tech Support Hours: 7:00am - 7:00pm EST, Monday - Friday

Quotes, Applications, Layouts and Submittal Requests: controls-Design@currentlighting.com

Technical Support (troubleshooting, specifications, programming):

currentlighting.com/controls/technical-services



Phone and Remote 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 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.

Warranty

Current provides a 5-year limited warranty for LED luminaires and Lighting Controls devices.







On-site Support

Current offers on-site support service to ensure your project goes smoothly. While Current products are designed with simplicity in mind, some projects may benefit from a Field Service Engineer 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.

Design Services





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.

The Institute



Classroom Education

Current offers cutting edge educational opportunities at Institute facilities across the United States. Our headquarters, located in Greenville, SC houses one of the industries largest training facilities with over 25,000 square-feet and is engineered to present a total solutions approach to your lighting and controls challenges.

Additionally, we have dedicated Institute facilities in North Carolina and Texas as well as Current facility classrooms for in-person instruction across the United States.

Virtual Education

Current's virtual education opportunities cover many facets of the lighting and controls industry including fundamentals, trends, technology, and product solutions. In addition, we can provide accredited continuing education (CEU) modules to help you maintain your certifications.

Engage with us in a way that's best for you!

- · An online university with modules designed for self pace individual learning consumed on-demand.
- Live (private) instructor-led training private events for individuals within your own organization designed specifically for your needs.
- Live (public) instructor led training public events highlighting new technologies, continuing education, and lighting trends.

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COLUMBIA LIGHTING

currentlighting.com/nx-lighting-controls

(Rev 12/6/23)

NX_IECC_Code_Guide_R01

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BEACON

COMPASS

DUAL-LITE

ARCHITECTURAL AREA LIGHTING

| EXO | | |
|--|--|--|
| FORUM | | |
| KIM LIGHTING | | |
| KURT VERSEN | | |
| LIFESHIELD | | |
| LITECONTROL | | |
| NX LIGHTING CONTROLS | | |
| PRESCOLITE | | |
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