# NETWORKED LIGHTING CONTROLS


EIKO®

eiko.com

# CONTENTS





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# INTRODUCING EIKO'S NLC SYSTEM


EiKO's Networked Lighting Control (NLC) System powered by Silvair is a Bluetooth® Low Energy (BLE) MESH solution that operates as a flood mesh network with no central controller and no single point of failure.

This means that the network(s), which can consist of many thousands of nodes, communicate via a flood based message relay device to device that are self-healing and in constant synchronization.

Using EiKO's NLC System, you can have individually addressable luminaires and control devices, easily create zones (and quickly re-zone) via easy-to-use app, and program multiple lighting control strategies throughout your environment.

The result? A DesignLights Consortium approved energy-saving networked lighting system that provides strict reliability and greater scalability as it does not require a constant Internet connection or a gateway to communicate—ready to accept any additional Bluetooth® Low Energy SIG qualified device as your needs expand.

# HOW DOES IT WORK?

1 **The backbone of EiKO's NLC System is a Bluetooth Low Energy (BLE) mesh network** that consist fixture controllers that are embedded or integrated into the luminaire or wired into the circuit, in addition to optional sensors, switches and other accessories. Since the devices are networked via a BLE mesh, each device is connected to many other devices (commonly referred to as nodes). Each "node" can send and relay messages to its neighbors, allowing messages to travel over a long distance (far exceeding the communication range offered by many other wireless protocols).

2 **Commissioning is easy**: adding devices to the network and grouping the devices to define which switches and/or sensors control which group of light is accomplished on-site using an intuitive free iOS app powered by Silvair. Changes to a configuration after the initial installation? Not a problem — the arrangement of the groups can be adjusted at any time post-install to easily address the changing needs of the environment's occupants.

3 **One solution that provies mutiple Lighting Control Strategys**. Lighting Control Strategies provide a way to go beyond an on/off switch and/or basic motion sensing to control each device by enabling tailored settings that can maximum energy savings while enhancing occupant comfort and productivity. EiKO's NLC System offers a collection of devices that can be configured for key lighting control strategies including continuous dimming, daylight harvesting, individual fixture addressability, high/low-end trim, occupancy/vacancy sensing, personal control, scheduling, scenes, and zones. All settings are commissioned on-site via iOS device utilizing the free iOS App powered by Silvair.

# WHY CHOOSE EIKO'S NLC SOLUTION

- Uses Bluetooth® Low Energy (BLE) mesh for greater communication range and more networked devices
- No hubs, routers or gateways* required
- Fast data transfer, resilient radio
- Scalable to thousands of devices
- No restriction on the number of groups or zones
- Reconfigures when nodes are added or when individual nodes fail
- Part of the Bluetooth® Special Interest Group (SIG), and powered by Silvair, ensuring security and device interoperability
- EiKO's NLC Devices are DesignLights Consortium (DLC) approved through Silvair

***GATEWAY OPTIONAL:**
Used for additional features: detailed scheduling and energy monitoring

LEARN MORE ABOUT
**LIGHTING CONTROL STRATEGIES**
ON THE NEXT PAGE


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# LIGHTING CONTROL STRATEGIES

## CONTINUOUS DIMMING

Ability to smoothly increase or decrease the light intensity (as opposed to step dimming)

## DAYLIGHT HARVESTING

Adjusts lights up or down relative to available light in a space

## INDIVIDUAL FIXTURE ADDRESSABILITY

Individually control each fixture

## HIGH/LOW-END TRIM

Defines the maximum light output as less than 100% of a fixture's capability or the lowest output

## OCCUPANCY/VACANCY SENSING

Adjusts lights up/down/on/off relative to occupancy of a space

## PERSONAL CONTROL

Gives users the ability to personally set the light level

## SCHEDULING

Automatically adjusts the fixtures based on time of day

## SCENES

Helps users get more out of their space by quickly adjusting the light level (a change in lighting can make the space better suited for different activities)

## ZONING

Control multiple fixtures in a zone

# EIKO'S NLC DEVICES

Combine EiKO fixtures with a combination of NLC Devices to achieve the flexibility to deploy multiple control strategies across your project:

| IMAGE | ITEM # | ORDER CODE | DESCRIPTION | INSTALLATION TYPE |
|---|---|---|---|---|
| **FIXTURE CONTROLLER** | | | | |
|  | PSC-ZKV-WCM-100-BLE-SR | 12643 | BLE TruBle wireless fixture Controller, 12-24V, Z10, 0-10V, Parameters set by Silvair App. **Note:** adapter may be required (SENA-APZ-WH or SENA-AZ-WH) | Z10, Twist Lock |
|  | PSC-WCM-450-BLE-SR | 12634 | BLE TruBlu Wireless Control Module, 120-277V, 16A Relay, 0-10V, 12V AUX 300mA, 100ft | Wired, ½" Knockout |
| **FIXTURE CONTROLLER WITH SENSOR** | | | | |
|  | SENA-WHPA | 13245 | BLE PIR Motion sensor, 12-24V,1/2" Button Snap-in, 0-10V, Daylight Harvesting, 8-12ft, Parameters set by Silvair App **Note:** Cable connector may be required (EC-01-0004) | Snap-In |
|  | SEN-WSI-PIR-A | 15439 | BLE PIR Motion sensor, 12-14V,1/2" Button Snap-in, 0-10V, Daylight Harvesting, 8-12ft, Parameters set by Silvair App | Snap-In |
|  | SENA-WCPA | 13359 | BLE PIR Motion sensor, 12-24V, Ceiling Mount, 0-10V, Daylight Harvesting, 12ft, OD3.3" WhiteTrim (ID2.7"), Parameters set by Silvair App | Ceiling Mount |
|  | SENA-WZPA-WH | 13246 | BLE PIR Motion sensor, 12-24V, IP65, Z10, 0-10V, Daylight Harvesting, 40ft, Parameters set by Silvair App. **Note:** adapter may be required (SENA-APZ-WH or SENA-AZ-WH) | Z10, Twist Lock |
| **ADAPTERS AND OTHER INSTALLATION ACCESSORIES** | | | | |
|  | SENA-APZ-WH | 13467 | Z10 adaptor 1/2" Screw-in spring load pins to Z10 Receptacle IP65 White | Screw-in, then accommodates a Z10, Twist Lock solution |
|  | SENA-AZ-WH | 13343 | Z10 White Stem Swivel Mount bracket 12-24VDC Max. 22AWG 2ft V+(1:Yellow) Dim-(2:Pink) Dim+(3:Purple) Optional(4:Brown) | Wired, ½" Knockout, then accomodates a Z10, Twist lock solution |
|  | EC-01-0004 | 13360 | Harness for SENA-WHPA, SENA-WHMA, and SENA-SHPR Sensors. XH2.54-3Y connector, 2ft, stripped out and tinned 3/8", V+(Yel), GND(Pink), Dim+(Purple) | Snap-in |
| **RANGE EXTENDERS** | | | | |
|  | PSC-RET-100-BLE-SR | 12994 | BLE TruBlu Range Extender, 120-277V, 800ft, Nema 4X Outdoor Enclosure *One per zone/group | Wired |
|  | PSC-TKP-200-BLE-SR | 12993 | BLE TruBlu Battery Backup Timekeeper and Range Extender, 120V, 800ft, Nema 4X Outdoor Enclosure *One per zone/group | Wired |

# EIKO NLC DEVICES, CONT.

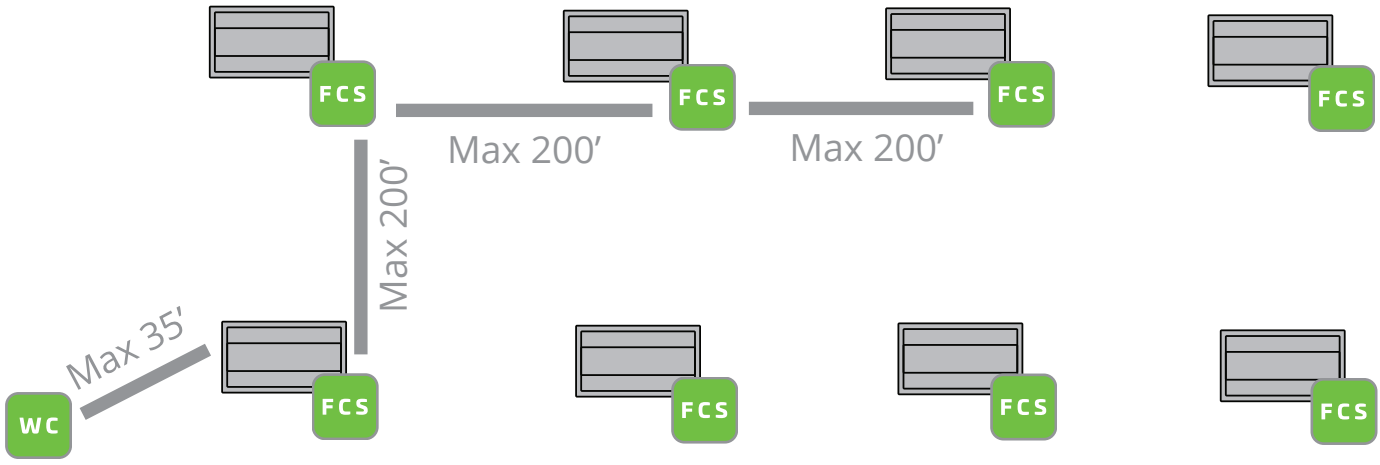
| IMAGE | ITEM # | ORDER CODE | DESCRIPTION | INSTALLATION TYPE |
|---|---|---|---|---|
| **WALL AND WIRELESS CONTROLLERS** | | | | |
|  | PSC-DM-WS-100-BLE-SR | 12635 | BLE TruBlu 120-277V, Single Gang Single Button Wall Controller, White, Parameters set by Silvair App | Wired, Electrical Box |
|  | PSC-DM-I-WS-100-BLE-SR | 12636 | BLE TruBlu PIR Occupancy/ Vacancy Sensor, 120-277V, Single Gang Wall Controller, White, Parameters set by Silvair App. | Wired, Electrical Box |
|  | PSC-DM-WS-400-BLE-SR | 12637 | BLE TruBlu 120-277V, Single Gang 4-Button Wall Controller, White, Parameters set by Silvair App. | Wired, Electrical Box |
|  | ESRPB-W-EO | 12654 | BLE Easyfit by EnOcean wireless self-powered kinetic Single rocker pad, white, wall plate included. | Wireless, Self-Powered (kinetic energy) |
|  | EDRPB-W-EO | 12655 | BLE Easyfit by EnOcean wireless self-powered kinetic Double rocker pad, white, wall plate included. | Wireless, Self-Powered (kinetic energy) |

**OPTIONAL GATEWAY ALSO AVAILABLE:** Used for additional features: detailed scheduling and energy monitoring

# COMMUNICATION STRUCTURE

Each NLC device has a maxiumum communication range. That doesn't mean all devices within the system have to be within "x" distance it just means that that the distance from one device to the next must be within the maxiumum communication range.

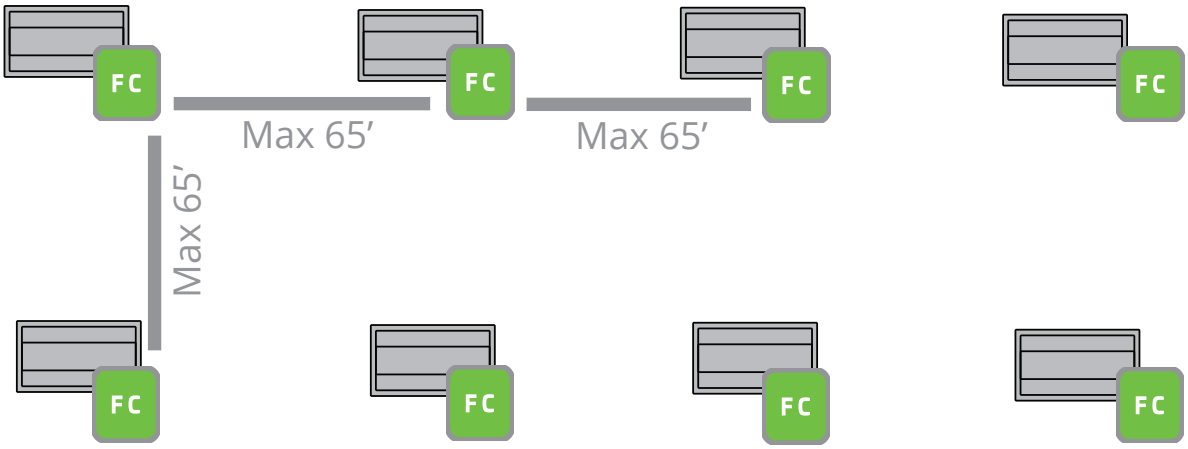
## EXAMPLE 1




WC **Any Wall Controller**

FCS **SENA-WZPA-WH**

## EXAMPLE 2



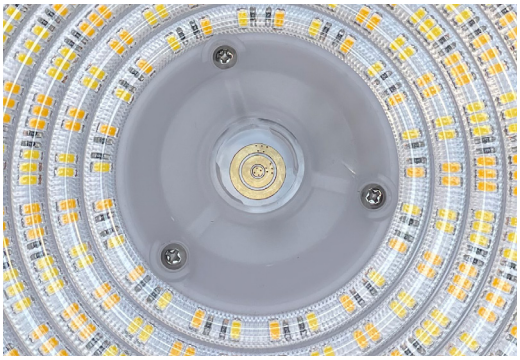

FC PSC-ZKV-WCM-100-BLE-SR

# INSTALLATION METHODS

EiKO's NLC System is designed to support multiple ways to install the fixture controller or fixture controller with sensor making it super easy and simple to add networked lighting controls without the need for any additional wiring. The simpliest installation methods include twist lock, screwn-in and snap-in.

**TWIST LOCK INSTALLATION**

Add controls to a controls ready fixture with a Twist Lock (Z10) connection.



**SCREW-IN INSTALLATION**

Add controls to a controls ready fixture using a screw-In receptacle. *Adapter may be required

**SNAP-IN INSTALLATION**

Add controls to a controls ready fixture via a compact Snap-In connection.

**CIRCUIT LEVEL CONTROL**

Add EiKO's Networked Lighting Controls to any 0-10V fixture. 0-10V wiring will be required but this is a great way to incorporate NLC's to any fixture.

LEARN MORE ABOUT EACH **INSTALLATION METHOD** ON THE FOLLOWING PAGES

# TWIST LOCK INSTALLATION USING Z10 RECEPTACLE

## STEP 1: *Choose Your Fixture*


LLH-E


VERT


SIG


SCS

## STEP 2: *Choose Your Fixture Controller (with or without Sensor)*

### OPTION A

Z10 Twist Lock Fixture Controller
w/o Sensor


**PSC-ZKV-WCM-100-BLE-SR**
65' MAX RANGE

**LIGHTING CONTROL STRATEGIES**

- HIGH/LOW-END TRIM
- INDIVIDUAL FIXTURE ADDRESSABILITY
- ZONING

### OPTION B

Z10 Twist Lock Fixture Controller
with Sensor


**SENA-WZPA-WH**
200' MAX RANGE

**LIGHTING CONTROL STRATEGIES**

- HIGH/LOW-END TRIM
- INDIVIDUAL FIXTURE ADDRESSABILITY
- ZONING
- DAYLIGHT HARVESTING
- OCCUPANCY/ VACANCY* SENSING

*Vacancy requires controller

## STEP 3: *Choose Your Optional Accessories*

### RANGE EXTENDER:

Boost communication range up to 800'


**PSC-RET-100-BLE-R**

### RANGE EXTENDER W/TIME KEEPER:

Gain additional Lighting Control Strategy - Scheduling


**PSC-TKP-200-BLE-SR**

**LIGHTING CONTROL STRATEGIES**

- SCHEDULING

### WALL CONTROLLERS:


**PSC-DM-WS-100-BLE-SR**
**PSC-DM-I-WS-100-BLE-SR**
**PSC-DM-WS-400-BLE-SR**

### WIRELESS CONTROLLERS:


**ESRPB-W-EO**
**EDRPB-W-EO**

**LIGHTING CONTROL STRATEGIES**

- PERSONAL CONTROL
- CONTINUOUS DIMMING
- SCENES

# SCREW-IN INSTALLATION
# USING SCREW-IN RECEPTACLE

## STEP 1: *Choose Your Fixture*


LHC1


LH1


LHB4


PG1


AAL


HBX3


BAYE3


HBV2


HBX2


FL5

## STEP 2: *Add the Screw-In Z10 Adapter via the Screw-In Receptacle*

**SENA-APZ-WH**
Converts Screw-In into Z10 Twist Lock

## STEP 3: *Choose Your Fixture Controller (with or without Sensor)*

### OPTION A

Z10 Twist Lock Fixture Controller
w/o Sensor

**PSC-ZKV-WCM-100-BLE-SR**
65' MAX RANGE

**LIGHTING CONTROL STRATEGIES**

- HIGH/LOW-END TRIM
- INDIVIDUAL FIXTURE ADDRESSABILITY
- ZONING

### OPTION B

Z10 Twist Lock Fixture Controller
with Sensor

**SENA-WZPA-WH**
200' MAX RANGE

**LIGHTING CONTROL STRATEGIES**

- HIGH/LOW-END TRIM
- INDIVIDUAL FIXTURE ADDRESSABILITY
- ZONING
- DAYLIGHT HARVESTING
- OCCUPANCY/ VACANCY* SENSING

*Vacancy requires controller

## STEP 4: *Choose Your Optional Accessories*

### RANGE EXTENDER:

Boost communication range up to 800'

**PSC-RET-100-BLE-R**

### RANGE EXTENDER W/TIME KEEPER:

Gain additional Lighting Control Strategy - Scheduling

**PSC-TKP-200-BLE-SR**

**LIGHTING CONTROL STRATEGIES**

- SCHEDULING

### WALL CONTROLLERS:

**PSC-DM-WS-100-BLE-SR**
**PSC-DM-I-WS-100-BLE-SR**
**PSC-DM-WS-400-BLE-SR**

### WIRELESS CONTROLLERS:

**ESRPB-W-EO**
**EDRPB-W-EO**

**LIGHTING CONTROL STRATEGIES**

- PERSONAL CONTROL
- CONTINUOUS DIMMING
- SCENES

# SNAP-IN INSTALLATION

## STEP 1: *Choose Your Fixture*

**FIELD OR FACTORY INSTALLED:**


VL1


VLR1


CSX1

**FACTORY INSTALLED ONLY:**


VOL 2X2


VOL 2X4


STR

## STEP 2: *Install Snap-In Fixture Controller with Sensor*

**SEN-WSI-PIR-A or SENA-WHPA**
PIR SENSOR, 65-100' MAX RANGE
FIELD OR FACTORY INSTALLED

*LIGHTING CONTROL STRATEGIES*

- HIGH/LOW-END TRIM
- INDIVIDUAL FIXTURE ADDRESSABILITY
- ZONING
- DAYLIGHT HARVESTING
- OCCUPANCY/ VACANCY* SENSING

*Vacancy requires controller

## STEP 3: *Choose Your Optional Accessories*

**RANGE EXTENDER:**
Boost communication range up to 800'

**PSC-RET-100-BLE-R**

**RANGE EXTENDER W/TIME KEEPER:**
Gain additional Lighting Control Strategy - Scheduling

**PSC-TKP-200-BLE-SR**

**SGW-101**
Silvair Gateway for Scheduling and remote control

*LIGHTING CONTROL STRATEGIES*

- SCHEDULING

**WALL CONTROLLERS:**

**PSC-DM-WS-100-BLE-SR**
**PSC-DM-I-WS-100-BLE-SR**
**PSC-DM-WS-400-BLE-SR**

**WIRELESS CONTROLLERS:**

**ESRPB-W-EO**
**EDRPB-W-EO**

*LIGHTING CONTROL STRATEGIES*

- PERSONAL CONTROL
- CONTINUOUS DIMMING
- SCENES

# ½" KNOCKOUT SENSOR INSTALLATION

## STEP 1: *Choose Your Fixture*

**ANY 0-10V DIMMING FIXTURE REQUIRES:**

0-10V Dimming
Dim to off
12-24V aux
Min 60mA



**STR-R**

**LLW**

**VTS**

**WPS**
(FieldCCeT & PowerSet Only)

**WPA** (UD only)

## STEP 2: *Install ½" Knockout Adapter*

**SENA-AZ-WH**
Converts 1/2" Knockout to Z10 Twist Lock

## STEP 3: *Choose Your Fixture Controller (with or without Sensor)*

### OPTION A

Z10 Twist Lock Fixture Controller
w/o Sensor

**PSC-ZKV-WCM-100-BLE-SR**
65' MAX RANGE

**LIGHTING CONTROL STRATEGIES**

- HIGH/LOW-END TRIM
- INDIVIDUAL FIXTURE ADDRESSABILITY
- ZONING

### OPTION B

Z10 Twist Lock Fixture Controller
with Sensor

**SENA-WZPA-WH**
200' MAX RANGE

**LIGHTING CONTROL STRATEGIES**

- HIGH/LOW-END TRIM
- INDIVIDUAL FIXTURE ADDRESSABILITY
- ZONING
- DAYLIGHT HARVESTING
- OCCUPANCY/ VACANCY* SENSING

*Vacancy requires controller

## STEP 4: *Choose Your Optional Accessories*

### RANGE EXTENDER:

Boost communication range up to 800'

**PSC-RET-100-BLE-R**

### RANGE EXTENDER W/TIME KEEPER:

Gain additional Lighting Control Strategy - Scheduling

**PSC-TKP-200-BLE-SR**

**SGW-101**
Silvair Gateway for Scheduling and remote control

**LIGHTING CONTROL STRATEGIES**

- SCHEDULING

### WALL CONTROLLERS:

**PSC-DM-WS-100-BLE-SR**
**PSC-DM-I-WS-100-BLE-SR**
**PSC-DM-WS-400-BLE-SR**

### WIRELESS CONTROLLERS:

**ESRPB-W-EO**
**EDRPB-W-EO**

**LIGHTING CONTROL STRATEGIES**

- PERSONAL CONTROL
- CONTINUOUS DIMMING
- SCENES

# ROOM LEVEL OR CIRCUIT LEVEL INSTALLATION

## STEP 1: *Choose Your Fixture*


**ANY 0-10V DIMMING FIXTURE**

## STEP 2: *Install Fixture Controller in the Field*

**PSC-WCM-450-BLE-SR**

Integrated 16 amp relay, in conjunction with low voltage dimming wires control multiple fixtures in a designated zone and links all fixtures to the fixture controller; all fixtures will perform in a coordinated manner. this also has the capability to supply 12v aux power for the optional sensor below.

**LIGHTING CONTROL STRATEGIES**

- HIGH/LOW-END TRIM
- INDIVIDUAL FIXTURE ADDRESSABILITY
- ZONING *

## STEP 3: *Install the Optional Ceiling Mount PIR Sensor*

**SENA-WCPA**
PIR SENSOR, 65' MAX RANGE

This sensor requires power from one of the following:

1. PSC-WCM-450-BLE-SR
2. A nearby fixture that has 12-24v aux
3. Power pack

**LIGHTING CONTROL STRATEGIES**

- HIGH-END TRIM
- INDIVIDUAL FIXTURE ADDRESSABILITY
- ZONING
- DAYLIGHT HARVESTING
- OCCUPANCY/ VACANCY* SENSING

*Vacancy requires controller

## STEP 4: *Choose Your Optional Accessories*

**RANGE EXTENDER:**
Boost communication range up to 800'

**PSC-RET-100-BLE-R**

**RANGE EXTENDER W/TIME KEEPER:**
Gain additional Lighting Control Strategy - Scheduling

**PSC-TKP-200-BLE-SR**

**SGW-101**
Silvair Gateway for Scheduling and remote control

**LIGHTING CONTROL STRATEGIES**

- SCHEDULING

**WALL CONTROLLERS:**

**PSC-DM-WS-100-BLE-SR**
**PSC-DM-I-WS-100-BLE-SR**
**PSC-DM-WS-400-BLE-SR**

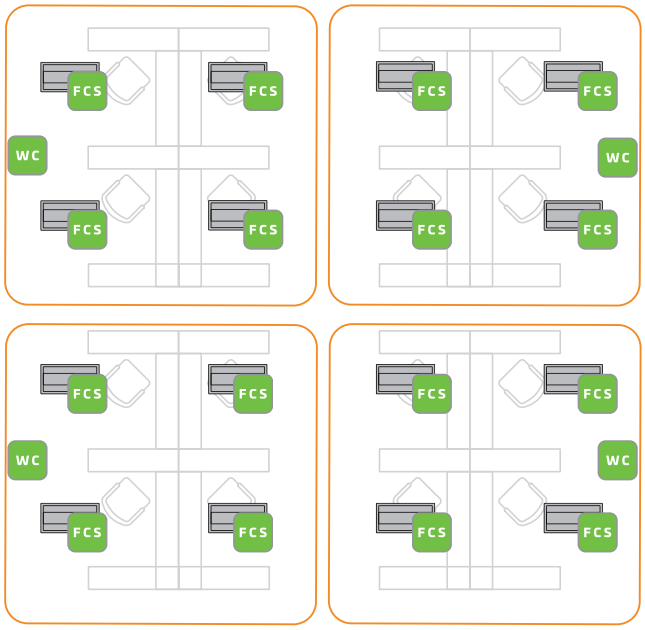
**WIRELESS CONTROLLERS:**

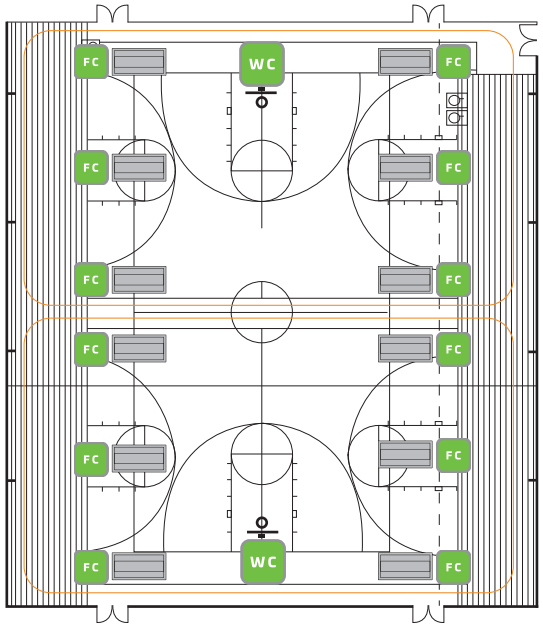
**ESRPB-W-EO**
**EDRPB-W-EO**

**LIGHTING CONTROL STRATEGIES**

- PERSONAL CONTROL
- CONTINUOUS DIMMING
- SCENES

# SAMPLE APPLICATIONS




To make it easier, we've prepared seven sample application configurations to help you start planning your EiKO's NLC System:

- Outdoor application, multiple zones, no sensors (Soccer Field)
- Outdoor application, multiple zones with sensors (Parking Lot)
- Indoor application, multiple zones, no sensors (Gymnasiumn)
- Indoor application, mutliple zones with sensors (Warehouse)
- Indoor application, multiple zones with Sensors (Open Cubicles)
- Indoor application, multiple zones with sensors (Small Office)
- Indoor application, circuit level multiple zones with sensors (Small Office)

EXPLORE
**SAMPLE APPLICATION CONFIGURATIONS**
ILLUSTRATED ON THE FOLLOWING PAGES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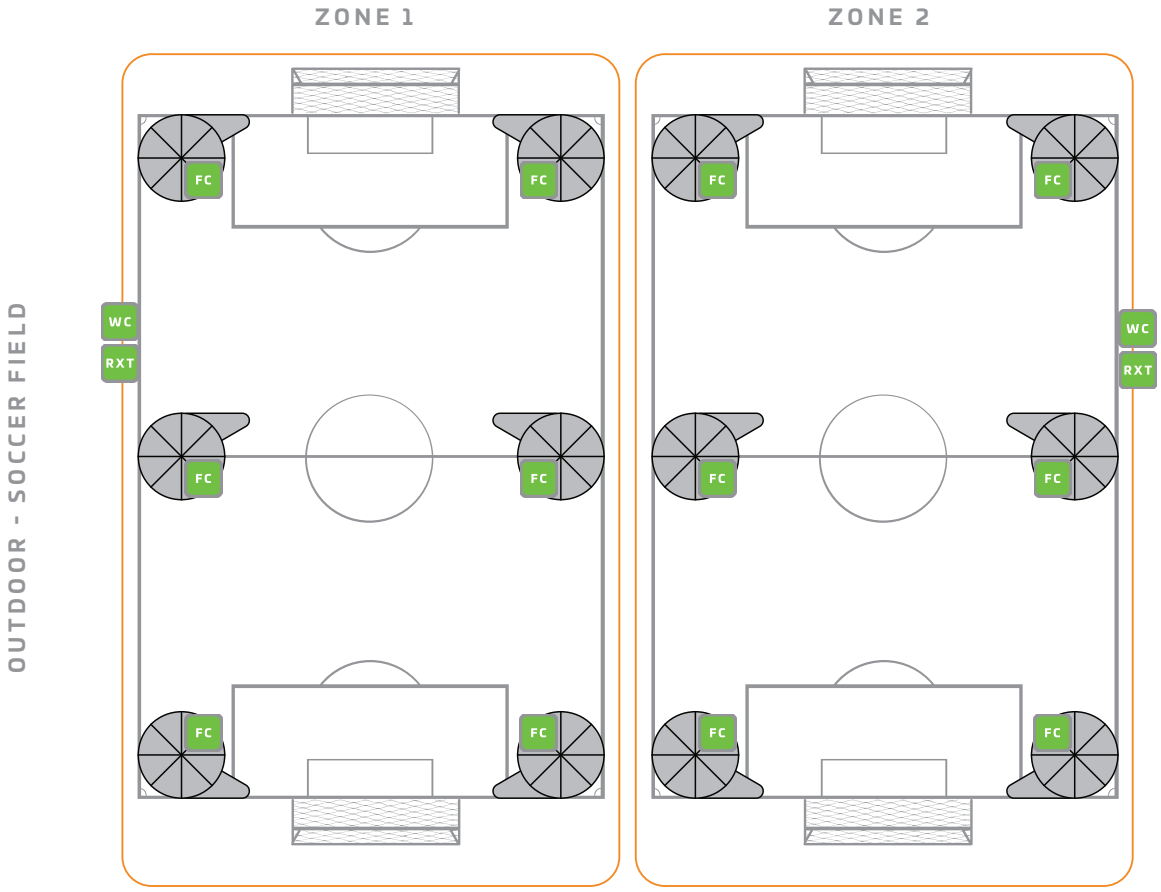
# OUTDOOR APPLICATION MULTIPLE ZONES NO SENSORS - SOCCER FIELD




NOTE: Distance from one FC (Z10 fixture controller) to another should not exceed 65'. This is why a Range Extender is recommended)

## CONFIGURATION

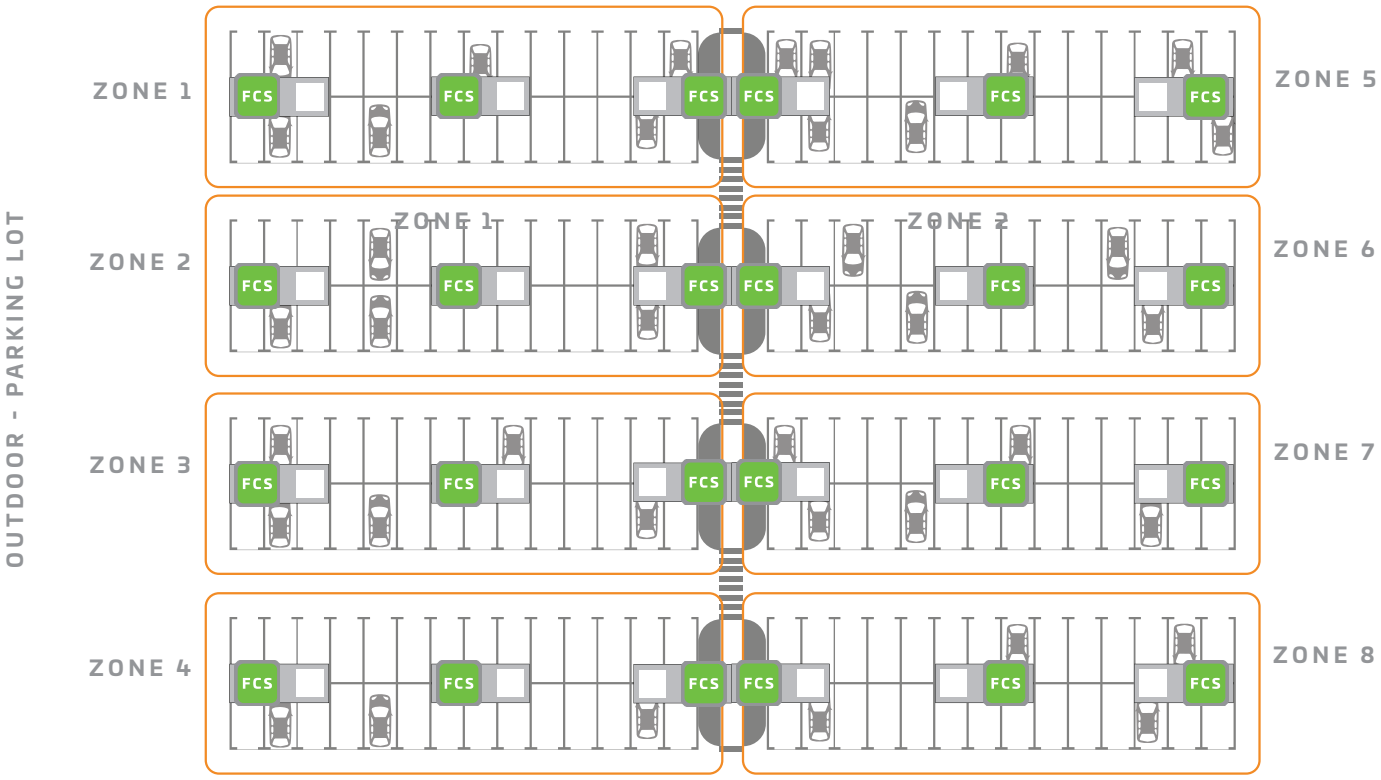
| SYMBOL | IMAGE | DEVICE TYPE | MODEL# |
|---|---|---|---|
| FC |  | Z10 Fixture Contoller | PSC-ZKV-WCM-100-BLE-SR |
| RXT |  | Range Extender with Timekeeper | PSC-TKP-200-BLE-SR |
| WC |  | Wireless Controller | ESRPB-W-EO |
| |  | Wireless Controller | EDRPB-W-EO |

This is just an example, any combination of fixture controllers, sensors and other devices can be used.

## CONTROL STRATEGIES

- CONTINUOUS DIMMING
- INDIVIDUAL FIXTURE ADDRESSABILITY
- HIGH/LOW END-TRIM
- PERSONAL CONTROL
- SCHEDULING
- SCENES
- ZONING

# OUTDOOR APPLICATION MULTIPLE ZONES WITH SENSORS - PARKING LOT




NOTE: Distance from one FCS (Z10 fixture controller with sensor) to another should not exceed 200'.

## CONFIGURATION

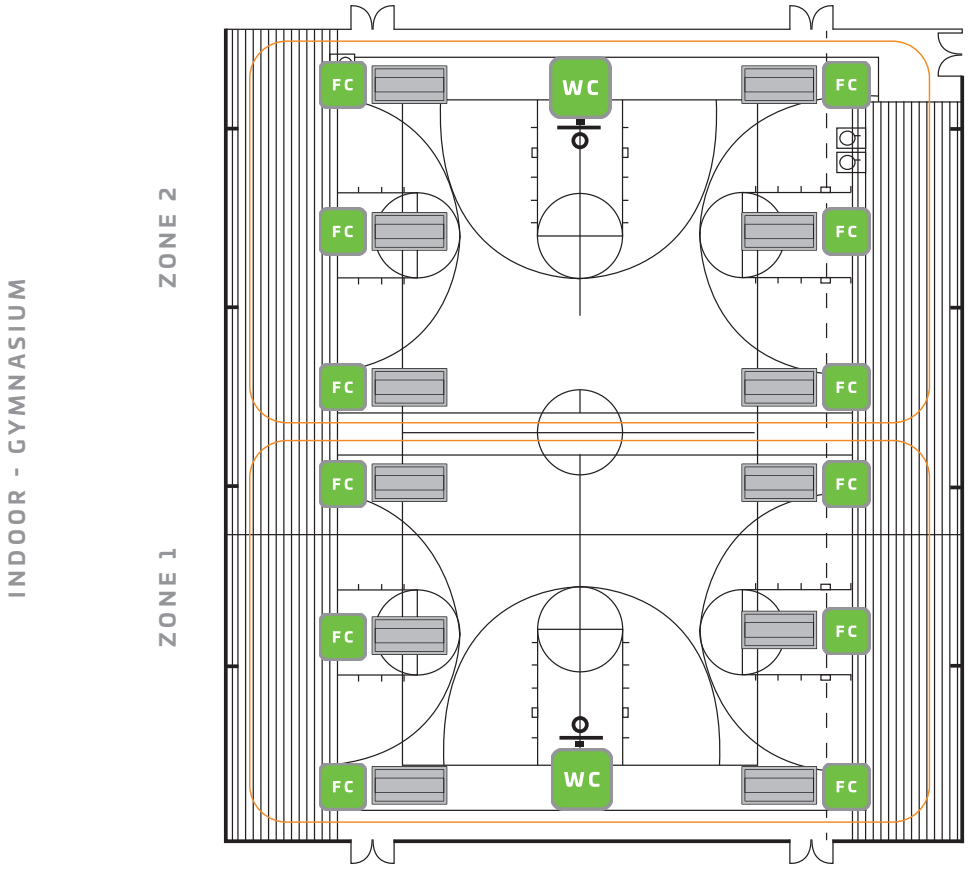
| SYMBOL | IMAGE | DEVICE TYPE | MODEL# |
|---|---|---|---|
| FCS |  | Z10 Fixture Contoller with Sensor | SENA-WZPA-WH |

This is just an example, any combination of fixture controllers, sensors and other devices can be used.

## CONTROL STRATEGIES

- INDIVIDUAL FIXTURE ADDRESSABILITY
- HIGH/LOW END-TRIM
- ZONING
- DAYLIGHT HARVESTING
- OCCUPANCY SENSING

# INDOOR APPLICATION MULTIPLE ZONES NO SENSORS - GYMNASIUM




## CONFIGURATION

| SYMBOL | IMAGE | DEVICE TYPE | MODEL# |
|---|---|---|---|
| FC |  | Z10 Fixture Contoller | PSC-ZKV-WCM-100-BLE-SR |
| WC |  | Wall Contoller* | PSC-DM-WS-100-BLE-SR |
| |  | Wall Contoller* | PSC-DM-I-WS-100-BLE-SR |
| |  | Wall Contoller* | PSC-DM-WS-400-BLE-SR |
| |  | Wireless Controller* | ESRPB-W-EO |
| |  | Wireless Controller* | EDRPB-W-EO |

** Only one wall or wireless controller is required per zone, choose which one is the best for the application.*

This is just an example, any combination of fixture controllers, sensors and other devices can be used.

## CONTROL STRATEGIES

- CONTINUOUS DIMMING
- INDIVIDUAL FIXTURE ADDRESSABILITY
- HIGH/LOW END-TRIM
- PERSONAL CONTROL
- SCENES
- ZONING

# INDOOR APPLICATION MULTIPLE ZONES WITH SENSORS - WAREHOUSE


NOTE: Distance from one FCS (Z10 fixture controller with sensor) to another should not exceed 200'. If it does, a Range Extender would be required - one per zone.

## CONFIGURATION

| SYMBOL | IMAGE | DEVICE TYPE | MODEL# |
|---|---|---|---|
| FCS |  | Wireless Fixture Controller | SENA-WZPA-WH |

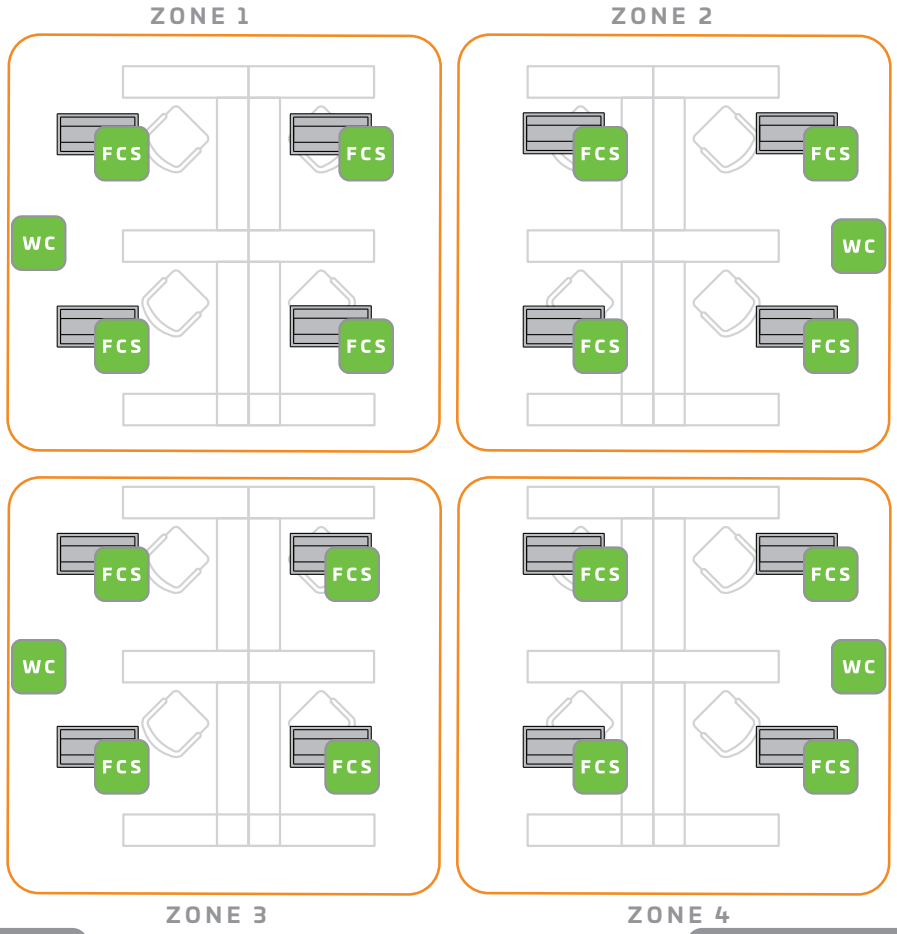
This is just an example, any combination of fixture controllers, sensors and other devices can be used.

## CONTROL STRATEGIES

- INDIVIDUAL FIXTURE ADDRESSABILITY
- HIGH/LOW END-TRIM
- ZONING
- DAYLIGHT HARVESTING
- OCCUPANCY

# INDOOR APPLICATION MULTIPLE ZONES WITH SENSORS - OPEN CUBICLES

INDOOR - OPEN CUBICLES




## CONFIGURATION

| SYMBOL | IMAGE | DEVICE TYPE | MODEL# |
|---|---|---|---|
| FCS |  | Snap-In BLE PIR Sensor | SENA-WHPA or SEN-WSI-PIR-A |
| WC |  | Wall Contoller | PSC-DM-WS-100-BLE-SR |
| |  | Wall Contoller | PSC-DM-I-WS-100-BLE-SR |
| |  | Wall Contoller | PSC-DM-WS-400-BLE-SR |
| |  | Wireless Controller | ESRPB-W-EO |
| |  | Wireless Controller | EDRPB-W-EO |

** Only one wall or wireless controller is required per zone, choose which one is the best for the application.*

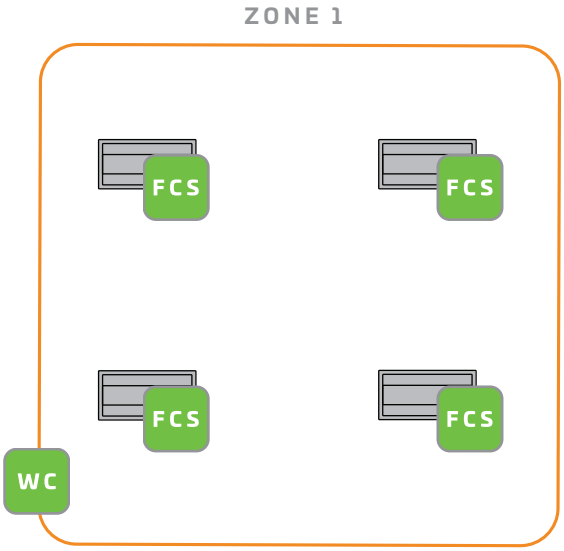
This is just an example, any combination of fixture controllers, sensors and other devices can be used.

## CONTROL STRATEGIES

- CONTINUOUS DIMMING
- INDIVIDUAL FIXTURE ADDRESSABILITY
- HIGH/LOW END-TRIM
- PERSONAL CONTROL
- SCENES
- ZONING
- OCCUPANCY/ VACANCY SENSING
- DAYLIGHT HARVESTING

# INDOOR APPLICATION MULTIPLE ZONES WITH SENSORS - SMALL OFFICE

INDOOR - SMALL OFFICE




## CONFIGURATION

| SYMBOL | IMAGE | DEVICE TYPE | MODEL# |
|---|---|---|---|
| FCS |  | Snap-In BLE PIR Sensor | SENA-WHPA or SEN-WSI-PIR-A |
| WC |  | Wall Contoller | PSC-DM-WS-100-BLE-SR |
| |  | Wall Contoller | PSC-DM-I-WS-100-BLE-SR |
| |  | Wall Contoller | PSC-DM-WS-400-BLE-SR |
| |  | Wireless Controller | ESRPB-W-EO |
| |  | Wireless Controller | EDRPB-W-EO |

** Only one wall or wireless controller is required per zone, choose which one is the best for the application.*

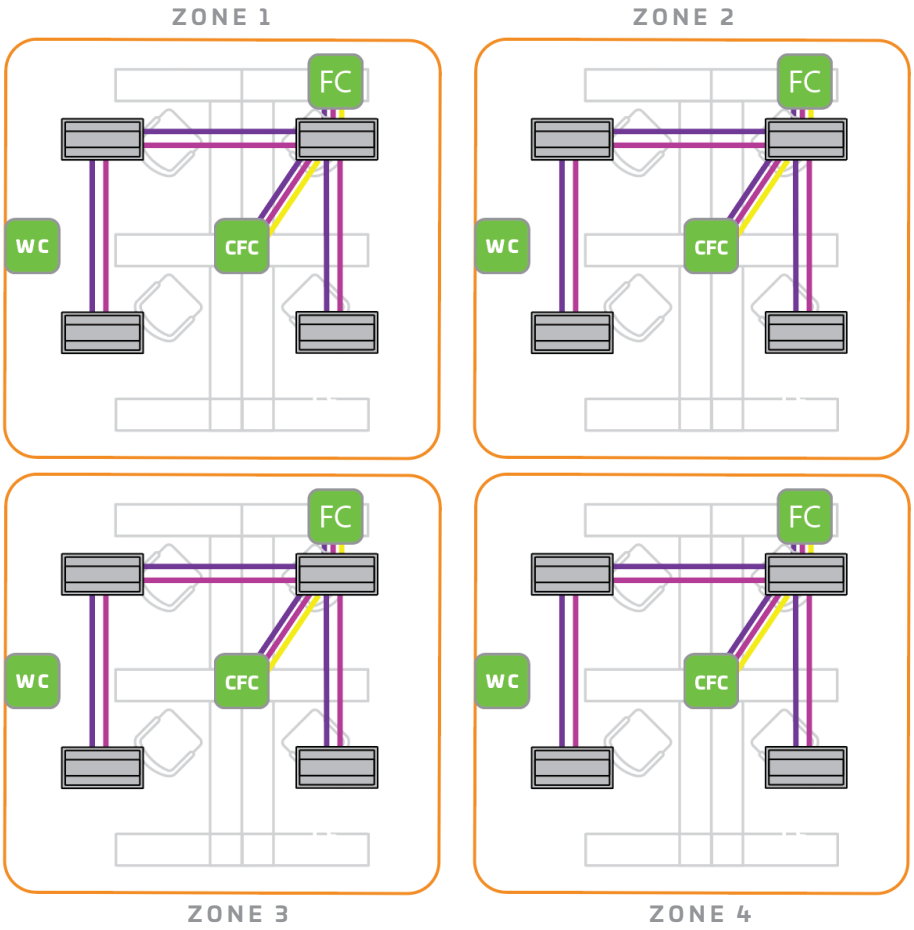
This is just an example, any combination of fixture controllers, sensors and other devices can be used.

## CONTROL STRATEGIES

- CONTINUOUS DIMMING
- INDIVIDUAL FIXTURE ADDRESSABILITY
- HIGH/LOW END-TRIM
- PERSONAL CONTROL
- SCENES
- ZONING
- OCCUPANCY/ VACANCY SENSING
- DAYLIGHT HARVESTING

# INDOOR APPLICATION CIRCUIT LEVEL MULTIPLE ZONES WITH SENSORS - OPEN CUBICLES

INDOOR - OPEN CUBICLES




## CONFIGURATION

| SYMBOL | IMAGE | DEVICE TYPE | MODEL# |
|---|---|---|---|
| CFC |  | Ceiling Mount Fixture Controller | SENA-WCPA |
| FC |  | Live Voltage Fixture Controller | PSC-WCM-450-BLE-SR |
| WC |  | Wall Contoller | PSC-DM-WS-100-BLE-SR |
| |  | Wall Contoller | PSC-DM-I-WS-100-BLE-SR |
| |  | Wall Contoller | PSC-DM-WS-400-BLE-SR |
| |  | Wireless Controller | ESRPB-W-EO |
| |  | Wireless Controller | EDRPB-W-EO |
| | - | - | 0-10V Wire |
| | - | - | 12-24V Wire (from fixture or PSC-ZKV) |

** Only one wall or wireless controller is required per zone, choose which one is the best for the application.*

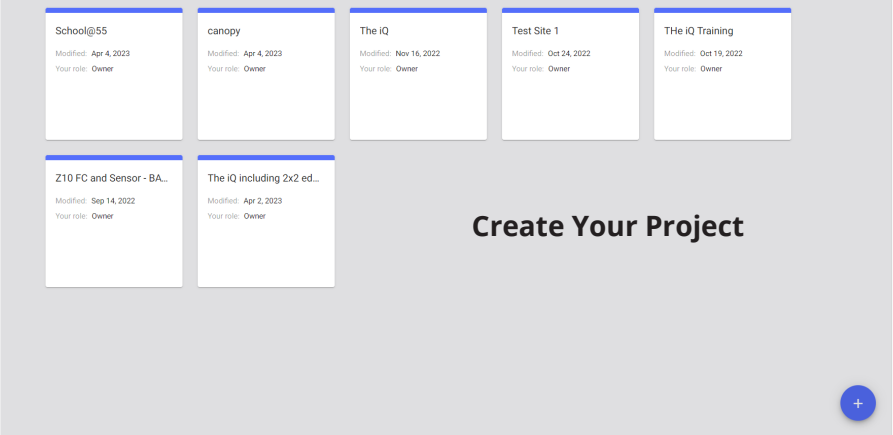
## CONTROL STRATEGIES

- CONTINUOUS DIMMING
- INDIVIDUAL FIXTURE ADDRESSABILITY
- HIGH/LOW END-TRIM
- PERSONAL CONTROL
- SCENES
- ZONING
- DAYLIGHT HARVESTING
- OCCUPANCY/ VACANCY SENSING

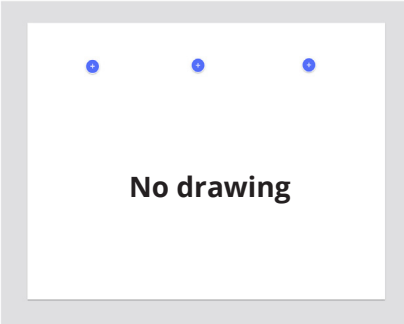
# COMMISSIONING

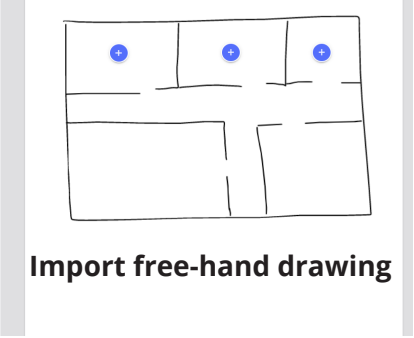
**Optional Web App Powered by Silvair** is used for pre-planning purposes. This allows you to import floor plans, set profiles, map out zones and manage users colloborating on the project (i.e installer and end user). This is an optional but highly recommended feature that speeds up on-site commissioning. This feature does not require you to label fixtures, scan fixtures or do anything with the fixtures, it's simply used for pre-planning.

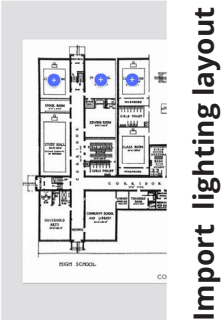
**iOS mobile App Powered by Silvair** provides on-site commissioning to the devices. An iOS device is required (Apple iPAD for example) which provides 3 layers of security. An internet connection is also required for initial commissioning. Once commissioning is complete, an internet connection is no longer needed unless you need to make changes. EiKO's NLC system communicates via BLE mesh so no internet is required once commissioning is complete.

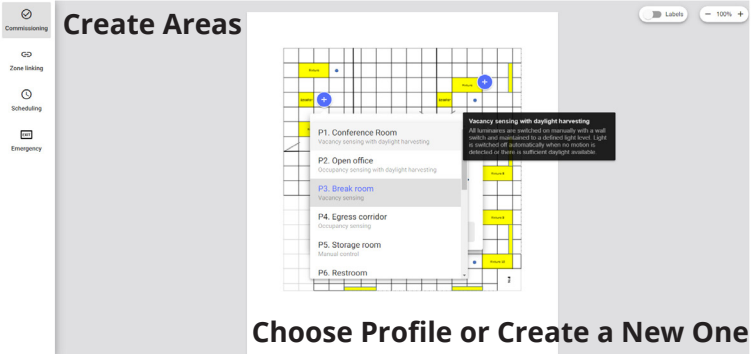


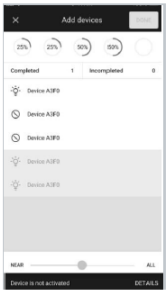

**Options:**




**Find the devices and add them to each approprate area**