



SINCE 1945

# KEYSTONE

LIGHT MADE EASY®

**SMART** **LOOP**

**WIRELESS CONTROLS**

MARCH 2025



# Meet the SmartLoop Family

## Wall Switch Keypad

KTSL-WS1-B-SG /G3

A simple, battery powered wireless keypad for your entire space, providing flexible control of your system, with on/off, dimming, and scene control.



## Fixture Controller

KTSL-FC1-UV-KO

Add this wireless controller to control either a single fixture or group of fixtures together on the same circuit.



## Fixture Controller with Remote Mount Sensor

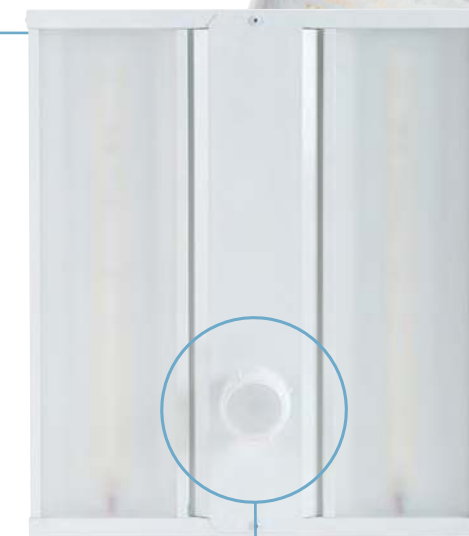
KTSL-FC1-UV-KO-PIR

All the benefits of a standard fixture controller, but with a remote mount sensor to enable occupancy/vacancy/daylight harvesting to a fixture or group of fixtures.



## Screw-In Fixture Controller with Integrated Sensor

For fixtures that utilize SmartPort sensor/receptacle technology, this controller with integrated daylight and PIR motion sensor is ideal for high bay applications, such as warehouses, gyms, and parking garages.



KTSL-FC3-12V-PKO-PIR



KTSL-FC4-12V-PKO

## Smartphone App iPhone and Android

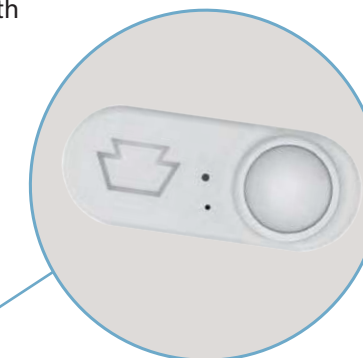
Available through the iPhone or Android store, the Keystone SmartLoop app can program and operate your system from any smartphone.



## Fixture Controller with Integrated Sensor

KTSL-FC5-12V-SM-PIR

For use with fixtures having a 12V AUX tap. They're ideal for individual fixture level control and sensing needs with mounting heights less than 16'.



## USB Time Keeper

KTSL-TK1-USB

A module that plugs into any powered USB port to maintain and restore SmartLoop schedules to devices in case of a power outage.



# Wireless light made easy.

Wireless technology gives you the power of automation, saves on labor and materials, and makes setting up lighting control easy.

SmartLoop is powerful enough to run a space with multiple zones, but simple enough to program in minutes with your phone—perfect for warehouses, offices, schools, and auditoriums, whether new construction or retrofit.

It's the complete solution.

**“SmartLoop has been very easy to use.”**

- Facility Director



## Easy to Commission

SmartLoop is simple to put to work. Pairing is a snap and setting up your controls can be done in minutes, directly on your smartphone.

## Versatile and Flexible

From zone to individual fixture control, easily adjust spaces with the SmartLoop app, which supports up to 100 devices on a single region, with unlimited regions.

## Enhanced Daylighting Logic Built in

With enhanced daylighting built into each sensor, you can easily add energy savings of 40% or more.

## 0-10V Compatibility

SmartLoop works with 0-10V-based lighting technology, so whether you're retrofitting or designing for new installation work, SmartLoop can handle your needs.

## Safe and Secure

A Bluetooth mesh network with no gateway requirement means there are no company passwords or confidential information stored. Your data is safe and secure.

## Comfort and Flexibility

Create comfortable, well-lit spaces with significant energy savings. With SmartLoop's intuitive controls, facility managers and tenants can easily adjust settings or reconfigure spaces without calling back an installer.



# How It Works



Typical Application:

# Room Level



### One space, one solution

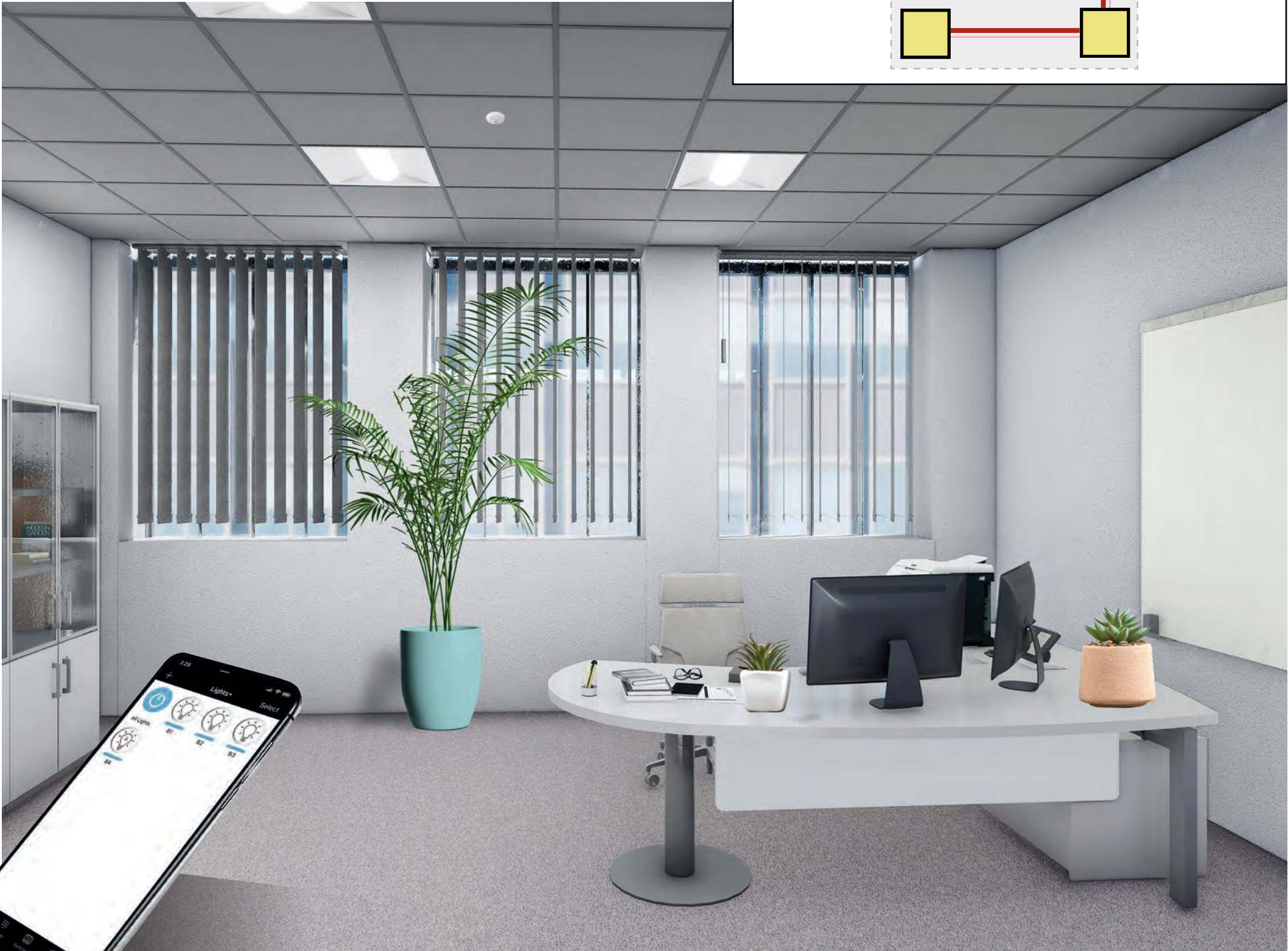
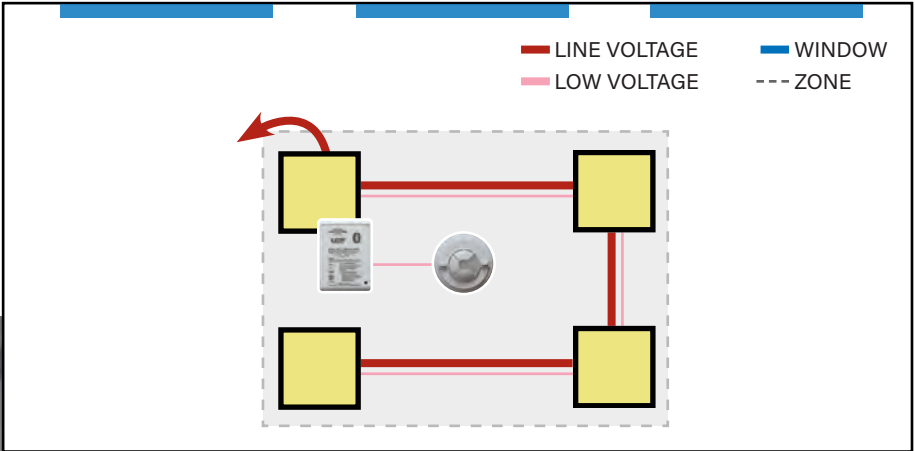
SmartLoop offers faster labor and easy operation for small spaces. There's no pulling control wires down a wall and back to a switch. One wall control can dim and use pre-set scenes.



FIXTURE CONTROLLER WITH REMOTE MOUNT SENSOR  
KTSL-FC1-UV-KO-PIR

WIRELESS WALL SWITCH KEYPAD  
KTSL-WS1-B-SG-G3

Easily add an occupancy/vacancy sensor to turn lights on when someone enters, and shut lights off when nobody is present.

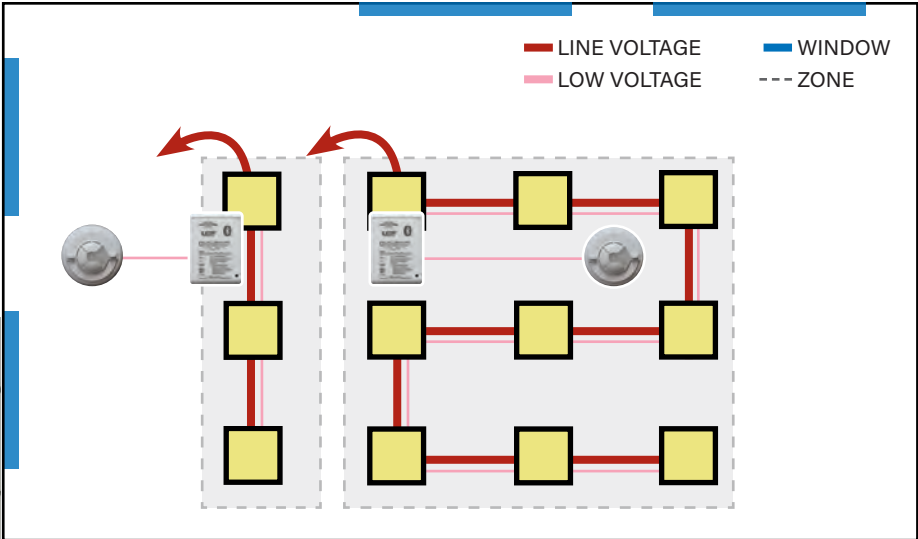




Typical Application:

# Zone Control

Advanced daylighting allows you to save energy and maximize available natural light.



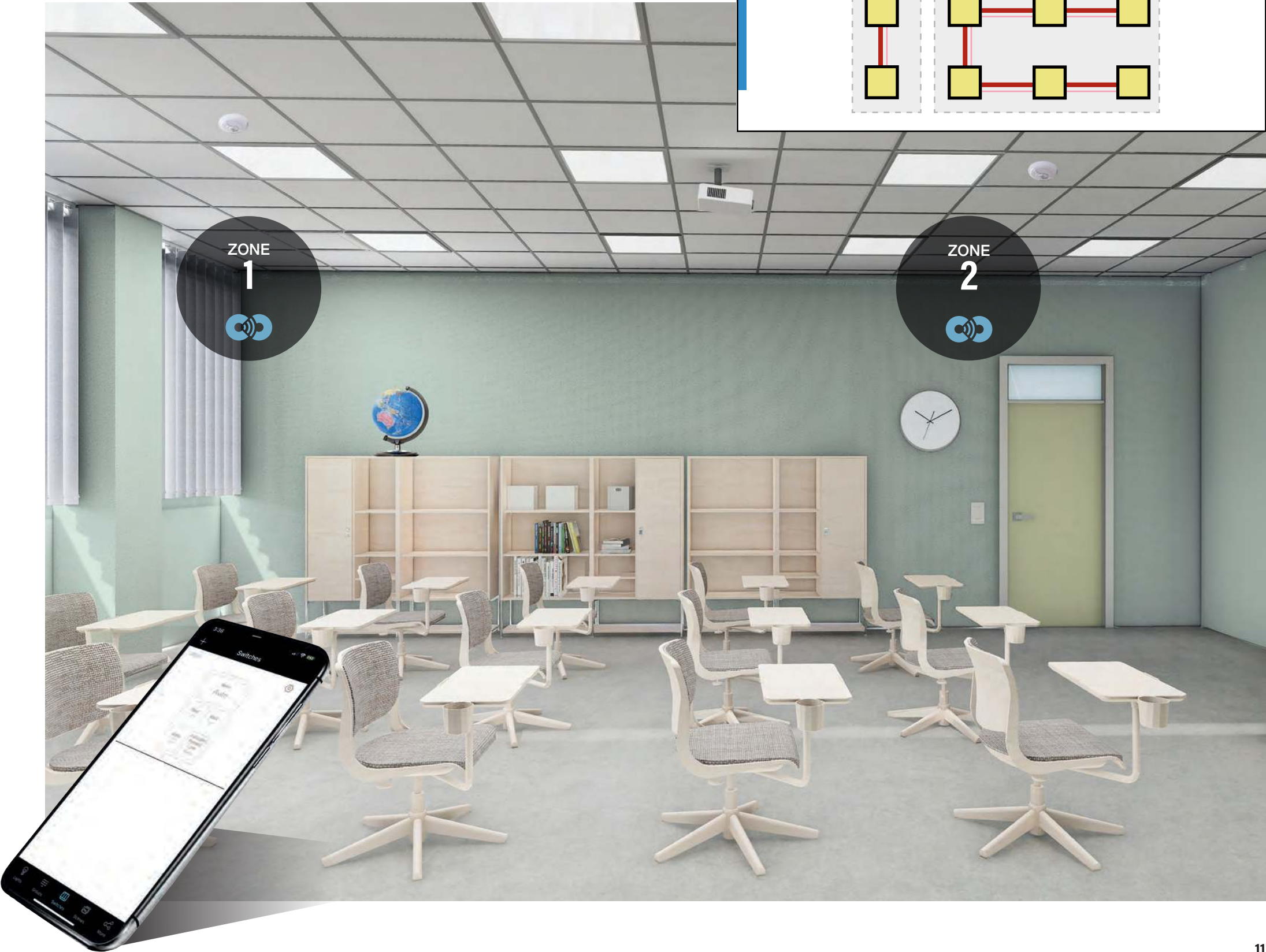
### Flexibility is standard

Save energy and set up scenes for optimal use. SmartLoop reduces labor and eliminates wiring mistakes with its simple, wireless programming. And it shapes your space for your needs with the single touch of a button, whether it's adjusting lighting throughout your space to making the most of natural light—or darkening the space for a presentation. SmartLoop handles it all.



FIXTURE CONTROLLER WITH REMOTE MOUNT SENSOR  
KTSL-FC1-UV-KO-PIR

WIRELESS WALL SWITCH KEYPAD  
KTSL-WS1-B-SG-G3





Typical Application:

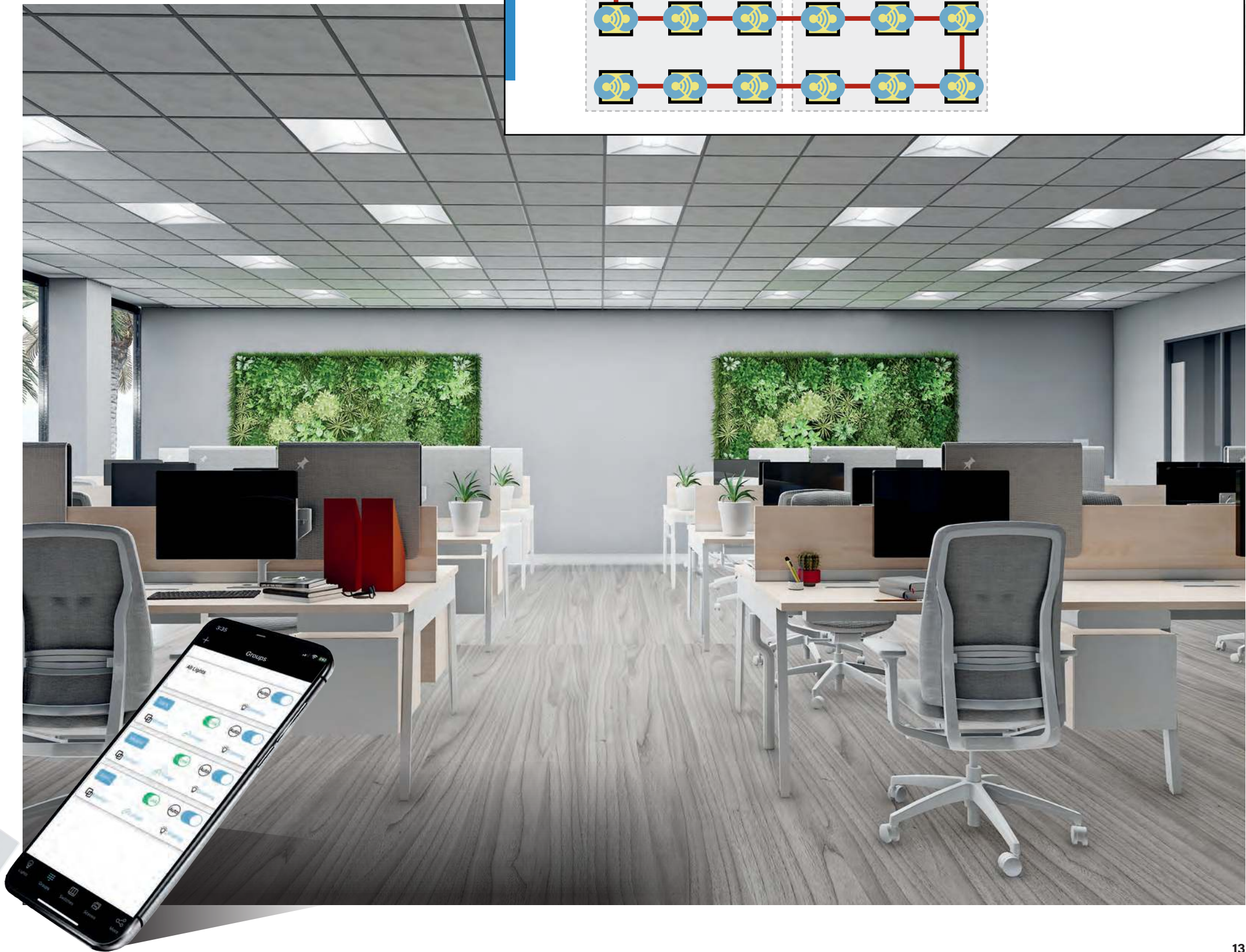
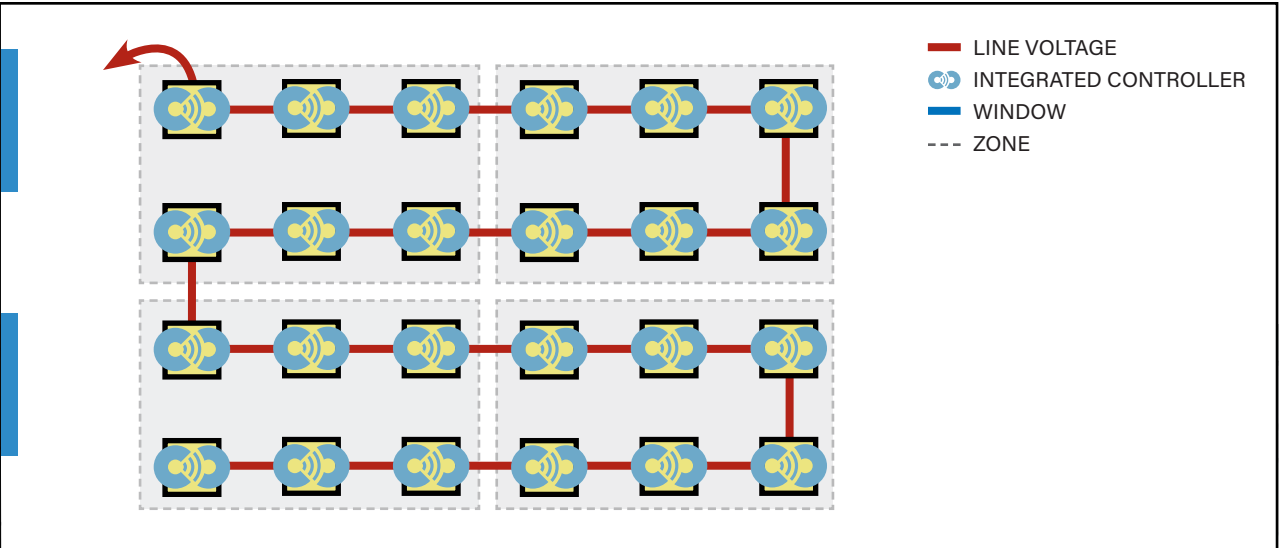
# Individual Fixture Control



**Powerful, customized operation**

No new wiring needed: Simply install integrated fixtures and a wireless keypad to create the control you want. No pulling control wires, either. You can optimize energy efficiency by connecting individual fixtures in unique groups. And if you need to change your setup, SmartLoop is ready to adjust—quickly and easily.

FIXTURE CONTROLLER WITH INTEGRATED SENSOR  
KTSL-FC5-12V-IM-PIR





Typical Application:

# High Bays



SCREW-IN FIXTURE  
SENSOR/CONTROLLER  
KTSL-FC3-12V-PKO-PIR



SCREW-IN FIXTURE  
RF CONTROLLER ONLY  
KTSL-FC4-12V-PKO-PIR



### Out of sight, out of mind

Warehouse high bays can be trouble to set up—and even more trouble to adjust. With its powerful wireless controllers, SmartLoop installs easily—just screw in compatible Keystone products—and commissions quickly, eliminating the need to climb on a scissor lift to set up. The SmartLoop app makes it easy to quickly set up schedules to turn lights on and off to meet your needs.





# Simple Setup

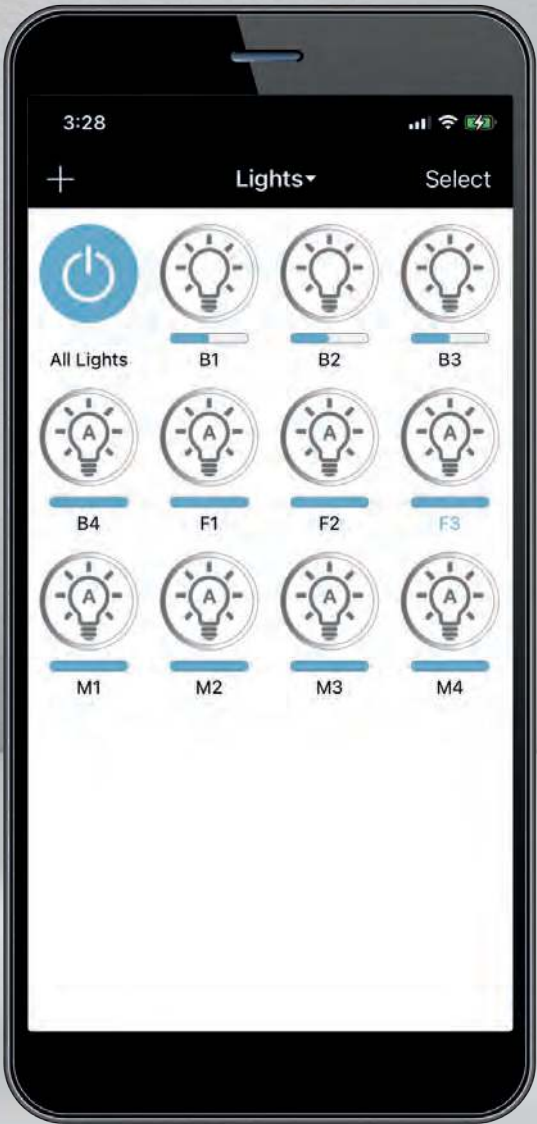
Pairing, commissioning, and operating is as easy as using the SmartLoop app.



Setup with SmartLoop takes just a few minutes

Download the app and use the generated QR code to get started. Want to let SmartLoop optimize your space? With Auto mode, sensors automatically read light levels and determine how to best illuminate it.

## Add Lights



## Create Groups



## Add Keypads





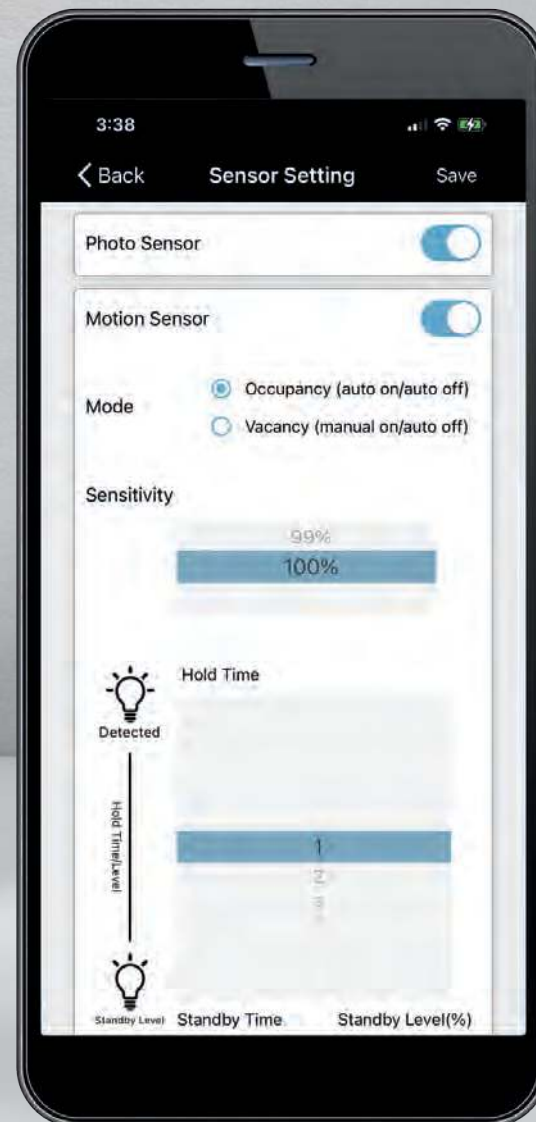
# Additional Functionality



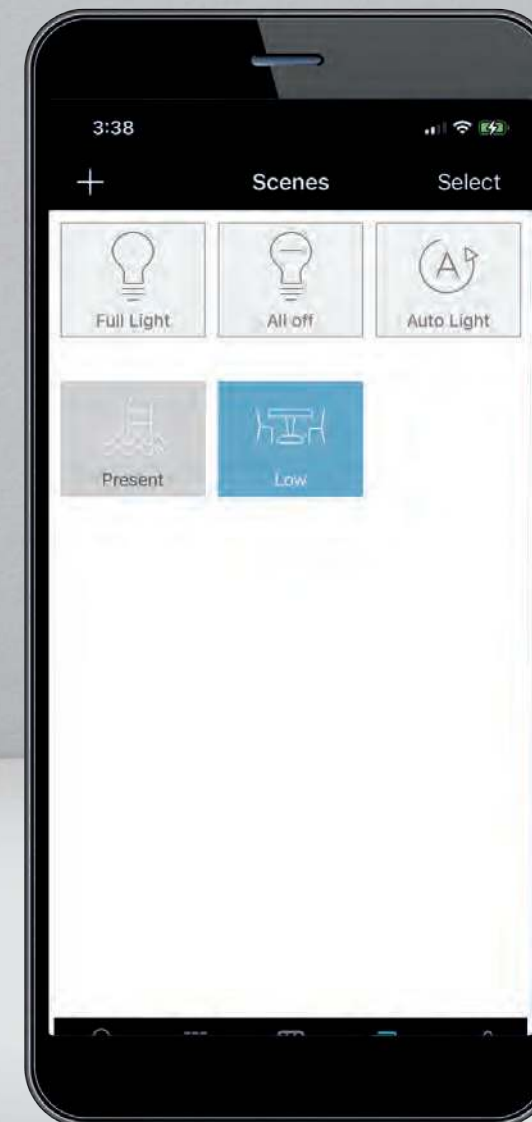
## Easily fine tune the smallest details

SmartLoop provides a full suite of features to customize your lighting needs for any space. Need a specific lighting level or set schedule? Looking to create an advanced layout? With SmartLoop, lighting is at your command.

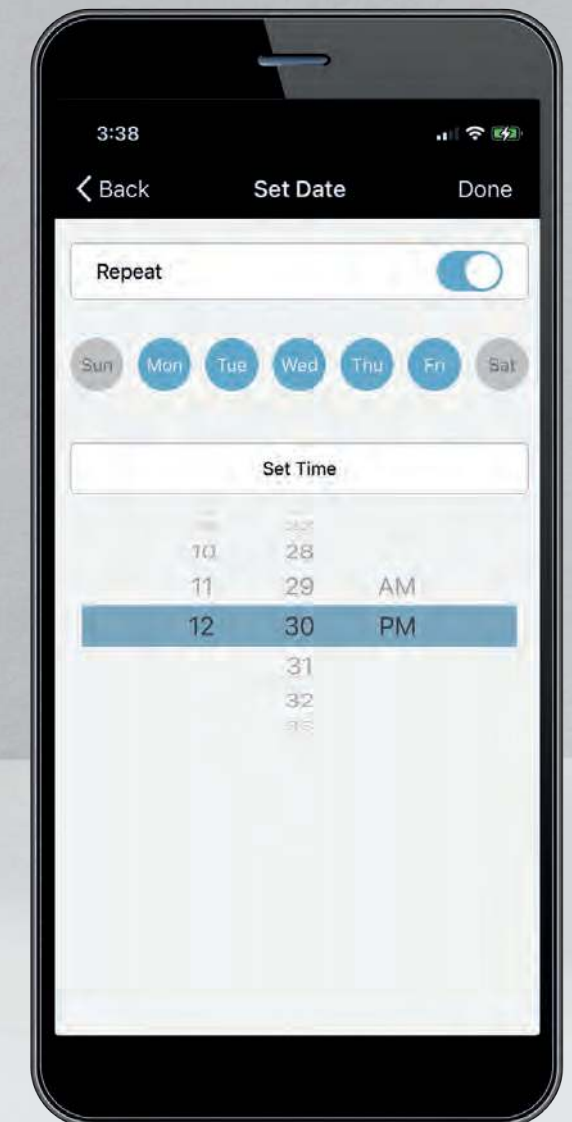
## Adjust Sensor Settings



## Create Scenes



## Create Schedules





# Integrated Fixtures



**Lighting control is built right in**

With SmartLoop, scheduling, light sensing, and motion sensing can all be controlled wirelessly, meaning lower electricity costs and greater ROI.

**Curved Wrap**  
4'



**Micro Strip**  
2', 4', 8'



**Center Basket Troffer**  
1'x4', 2'x2', 2'x4'



**Back-Lit Panel**  
2'x2', 2'x4'



**Retrofit Kit - Center Basket Troffer**  
1'x4', 2'x2', 2'x4'



**LINTA**  
2', 3', 4', 8'





# The Right Fixture for Your Project



## Linta Architectural Pendant

Features 3 direct/indirect (downlight/uplight) settings, 3 power outputs, and 5 CCT, making it 45 fixtures in one. Simple connections make it easy to install and a range of mounting options add versatility.



## Back-Lit Panel

Customize your environment and save energy. Features Power and Color Select. In addition, they're listed on the DLC Qualified Products List (QPL), so they're eligible for rebate opportunities.



## Back-Lit Panel | Retrofit Kit

All you need for a seamless installation, including housings with pre-wired drivers, installation brackets, lenses, and hardware. Upgrade in minutes—you don't even need to remove the fixture from the plenum.



## Center Basket Troffer

Architectural-grade fixtures with features that allow you to customize your environment as well as save energy. Includes field-adjustable Power and Color Select and flexible installation options.



## Center Basket Troffer | Retrofit Kit

Includes housings with pre-wired drivers, installation brackets, lenses, and hardware—everything you need to upgrade. You don't even have to remove the fixture from the plenum.



## Curved Wrap

Surface-mounted wraparound fixtures for indoor applications lacking a recessed ceiling grid. Includes field-adjustable Power and Color Select.



## Micro Strip

A powerful yet compact high-efficacy solution for new construction or fluorescent strip fixture replacement applications. With field-adjustable Power and Color Select to maximize rebates and ROI.



# Dimmer Switch / Keypad

**KTSL-WS1-B-SG /G3**  
Bluetooth Wireless Keypad



## Features & Benefits

- 5 buttons allow for dimming, toggling power, automatic sensor/preset level operation, and scene activation
- Utilizes Bluetooth mesh technology for reliable and secure wireless communication
- Indicator LED communicates device status
- Easily commissioned to control groups or individual luminaires
- Designed for installation in standard wallboxes
- Operates on 1x CR2032 coin cell battery
- Commissioned via SmartLoop mobile app for iPhone and Android

## Electrical Specifications

CATALOG NUMBER	INPUT POWER	BATTERY LIFETIME	RF TRANSMIT POWER	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	WIRELESS PROTOCOL
KTSL-WS1-B-SG /G3	1 x CR2032 coin cell batteries*	10 Years	8dBm	2.4GHz	100ft	Bluetooth 5.0

\*Batteries not included

## Environmental Specifications

OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY	MOISTURE AND DUST RATING
-10°C/14°F to 45°C/113°F	0°C/32°F to 30°C/86°F	5-90%	IP20

## EMC Compliance

- FCC: Part 15.247



Keypad & Faceplate



Side Views



# Fixture Controller



## Features & Benefits

- Use of a relay, 0–10V dimming, and a 1/2” knockout enable compatibility with many standard industry fixtures
- Commissioned via SmartLoop mobile app for iPhone and Android
- Controlled via SmartLoop mobile app, keypad, and sensors
- UL2043 certified for plenum installations
- Utilizes Bluetooth mesh technology for reliable and secure wireless communication
- Intelligent relay control software reduces wear to extend relay life
- Power outage recovery defaults to automatic ON state
- Indicator LED communicates device status

## Electrical Specifications

CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-FC1-UV-KO	120–277VAC, 50–60Hz	<1W	3.0A	2.4GHz	100ft	N/A	N/A	N/A	Bluetooth 4.2

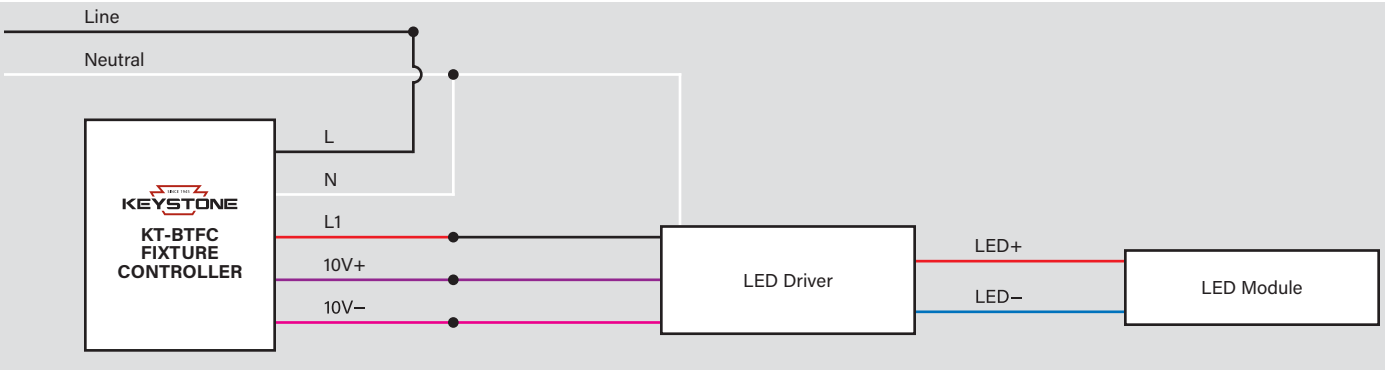
## Environmental Specifications

OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY	LIFETIME RATING	MOISTURE AND DUST RATING
– 40°C/– 40°F to 55°C/131°F	– 40°C/– 40°F to 85°C/185°F	5–90%	50,000 Hours	IP20

## Safety and EMC Compliance

- UL/cUL: UL8750, UL2043
- FCC: Part 15.247

## Wiring Diagram



# Fixture Controller with Remote Mount Sensor



## Features & Benefits

- Use of a relay, 0–10V dimming, and a 1/2” knockout enable compatibility with many standard industry fixtures
- Commissioned via SmartLoop mobile app for iPhone and Android
- Class 2 daylight and PIR motion sensor is remote mountable via 1” trade size knockout
- Controlled via SmartLoop mobile app, keypad, and sensors
- Features of SmartLoop mobile app- High End Trim, Vacancy, Occupancy, Daylight Harvesting, Scheduling, and Grouping
- Fixture controller and sensor connect via a convenient RJ-12 cable
- Utilizes Bluetooth mesh technology for reliable and secure wireless communication
- Intelligent relay control software reduces wear to extend relay life
- Power outage recovery defaults to automatic ON state
- Indicator LED communicates device status
- UL2043 certified for plenum installations
- Lens cover accessory with breakaway tabs included for specialized reception pattern needs

## Electrical Specifications

CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-FC1-UV-KO-PIR	120–277VAC, 50–60Hz	<1W	3.0A	2.4GHz	100ft	40’ max	120°	100-1000 lux	Bluetooth 4.2

## Sensor Specifications

SENSOR WIRES	SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE
Class 2	40’ max	120°	100-1000 lux

## Environmental Specifications

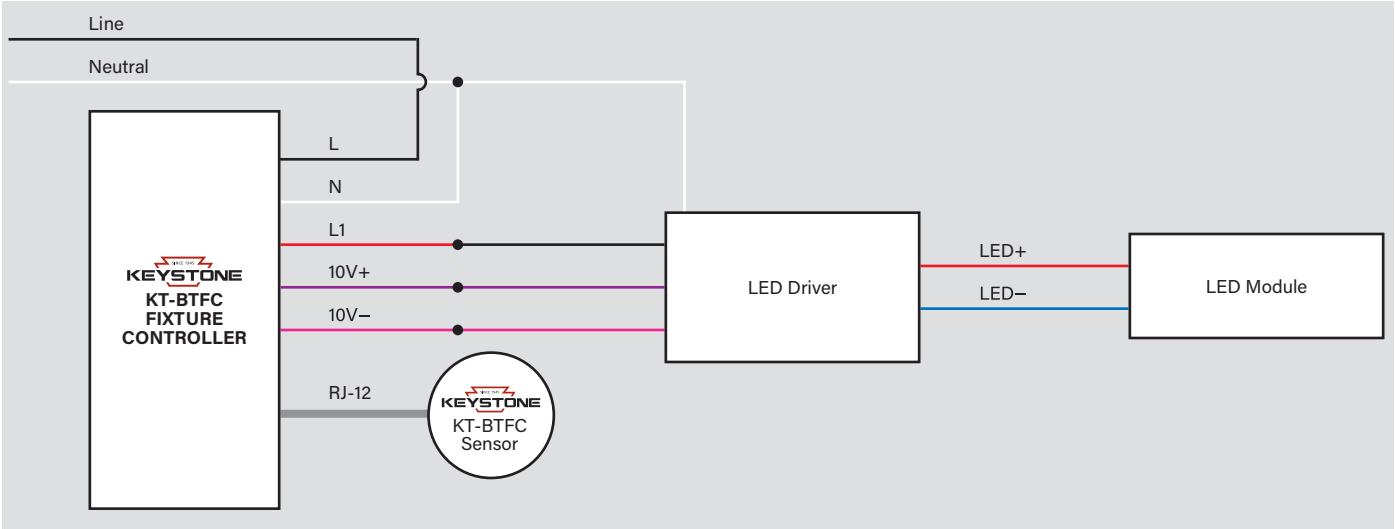
OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY	LIFETIME RATING	MOISTURE AND DUST RATING
– 40°C/– 40°F to 45°C/113°F	– 40°C/– 40°F to 85°C/185°F	5–90%	50,000 Hours	IP20

## Safety and EMC Compliance

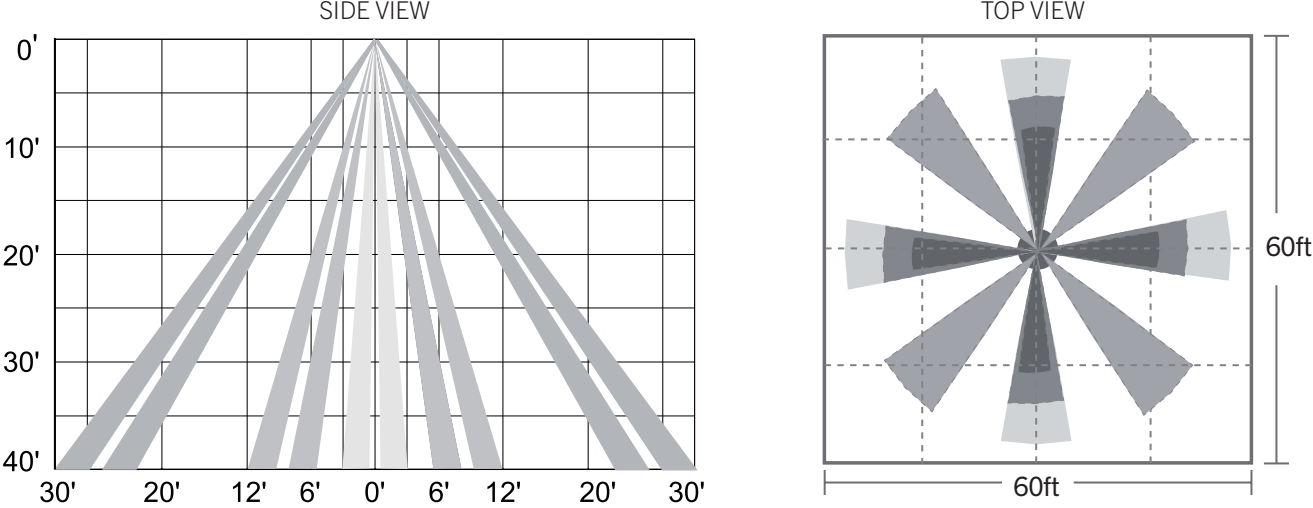
- UL/cUL: UL8750, UL2043
- FCC: Part 15.247



Wiring Diagram




Lens Coverage



Integrated Fixture Controller

**KTSL-FC5-12V-IM-PIR-X**  
Bluetooth mesh wireless low voltage  
Integrated Fixture Controller



Features & Benefits

- Small form factor for unobtrusive installation and sleek aesthetic
- 0-10V control wires for electrical integration with most commercially available fixtures
- 12VDC input (use driver with 12V aux power)
- Installs via easy snap-in to fixture's premade mounting hole
- Available in White and Black
- Driver should be dim-to-off, no relay control on sensor
- Commissioned via SmartLoop mobile app for iPhone and Android
- Controlled via SmartLoop mobile app, keypad, and sensors
- Utilizes Bluetooth mesh technology for reliable and secure wireless communication
- Power outage recovery defaults to automatic on state
- Suitable for dry and damp locations

Electrical Specifications

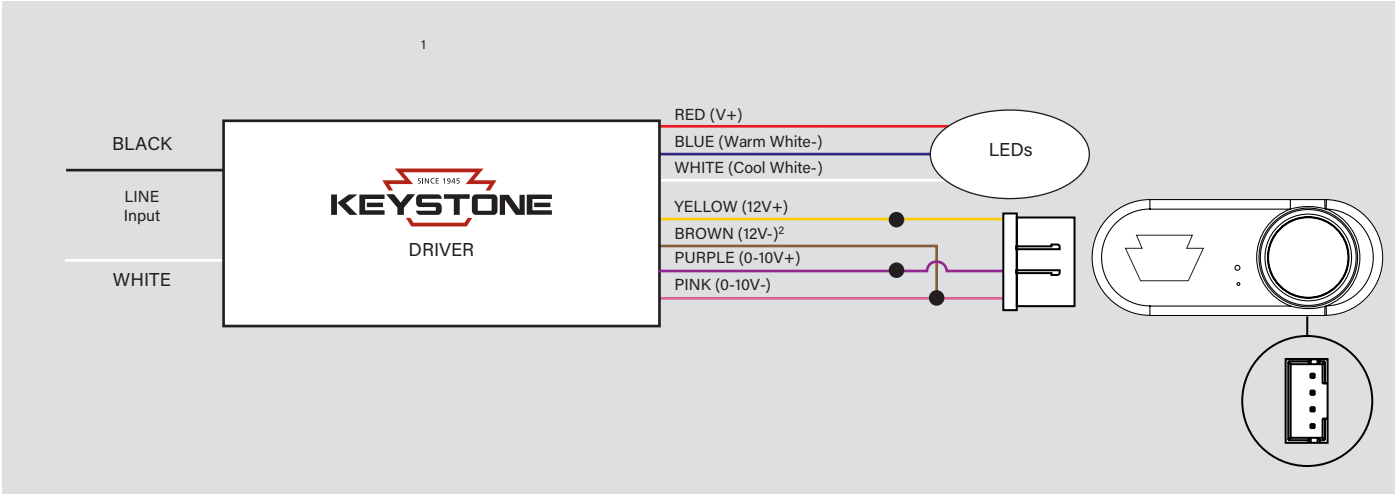
CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL	COLOR
KTSL-FC5-12V-IM-PIR	10-15VDC	0.2W	Driver Dependent	2.4GHz	100ft	16' max	120°	100-1000 lux	Bluetooth 5.0	White
KTSL-FC5-12V-IM-PIR-B	10-15VDC	0.2W	Driver Dependent	2.4GHz	100ft	16' max	120°	100-1000 lux	Bluetooth 5.0	Black

Environmental Specifications

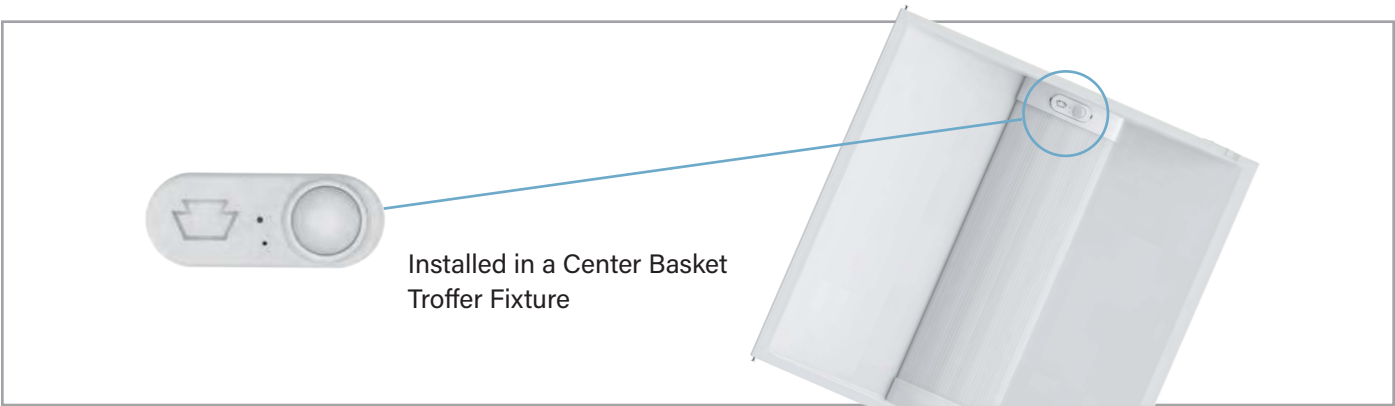
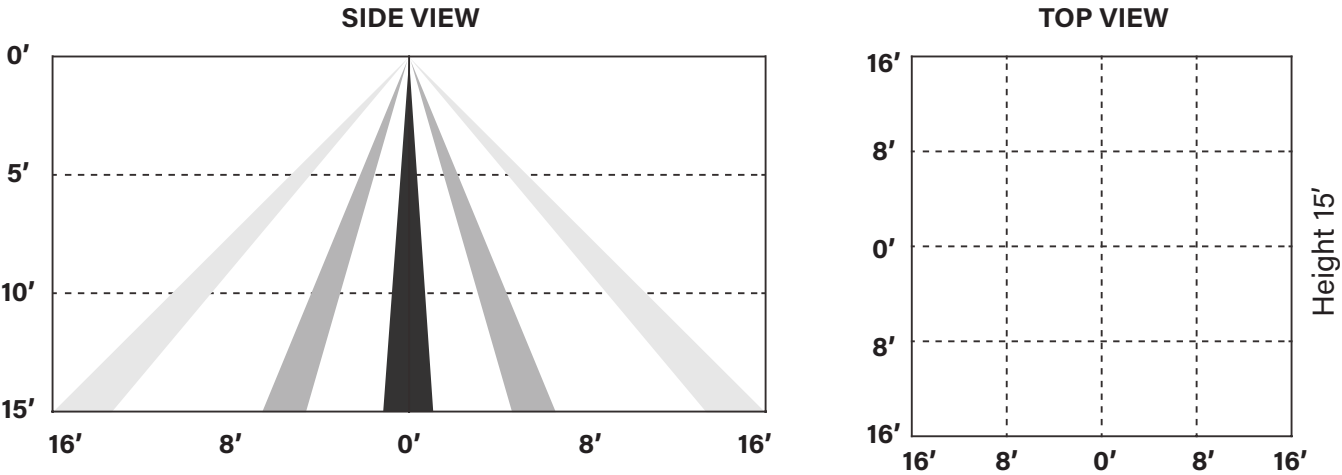
OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY	LIFETIME RATING	MOISTURE AND DUST RATING
-30°C/-22°F to 55°C/131°F	-30°C/-22°F to 85°C/185°F	5-95%	>100,000 Hours	Suitable for dry and damp locations



Wiring Diagram



Lens Coverage



Screw-in Fixture Controllers

**KTSL-FC3-12V-PKO-PIR**

Bluetooth Mesh Wireless  
Screw-in Fixture Controller  
with Integrated Sensor



**KTSL-FC4-12V-PKO**

Bluetooth Mesh Wireless  
Screw-In Fixture Controller



Features & Benefits

- For use with SmartPort Gen 2 compatible Keystone products
- Commissioned via SmartLoop mobile app for iPhone and Android
- Controlled via SmartLoop mobile app, keypad, and sensors
- Utilizes Bluetooth mesh technology for reliable and secure wireless communication
- Power outage recovery defaults to automatic ON state
- Indicator LED communicates device status

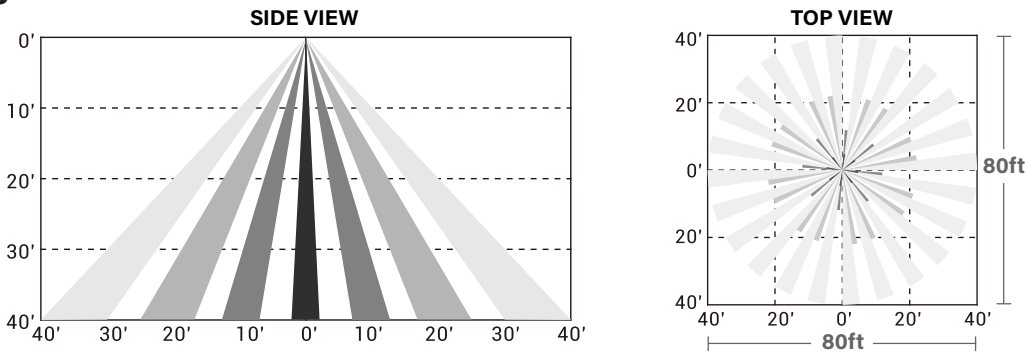
Motion and Daylight

CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-FC3-12V-PKO-PIR	10-15VDC	0.2W	Driver Dependent	2.4GHz	100ft	40' max	120°	0-2000 lux	Bluetooth 4.2

RF Only

CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-FC4-12V-PKO	10-15Vdc	0.2W	Driver Dependent	2.4GHz	100ft	N/A	N/A	N/A	Bluetooth 4.2

Lens Coverage





Fixture Controller and Sensor

KTSL-HBFC1-UV-KO-PIR/G2

Bluetooth wireless fixture controller and sensor



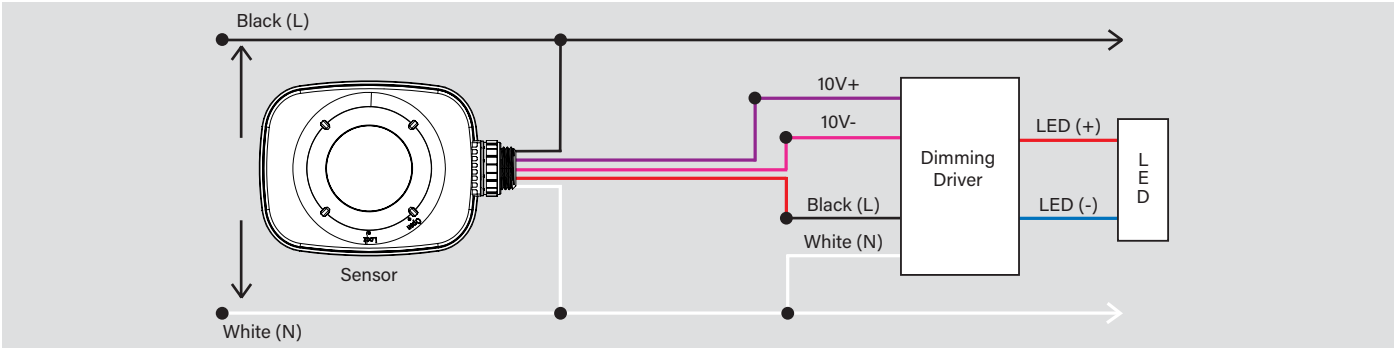
Features & Benefits

- Use of a relay, 0-10V dimming, and a 1/2" knock-out enable compatibility with many standard industry fixtures
- Commissioned via SmartLoop mobile app for iPhone and Android
- Controlled via SmartLoop mobile app, keypad, and sensors
- Integrated Daylight and PIR motion sensor
- Utilizes Bluetooth mesh technology for reliable and secure wireless communication
- Intelligent relay control software reduces wear to extend relay life
- Power outage recovery defaults to automatic on state
- Indicator LED communicates device status

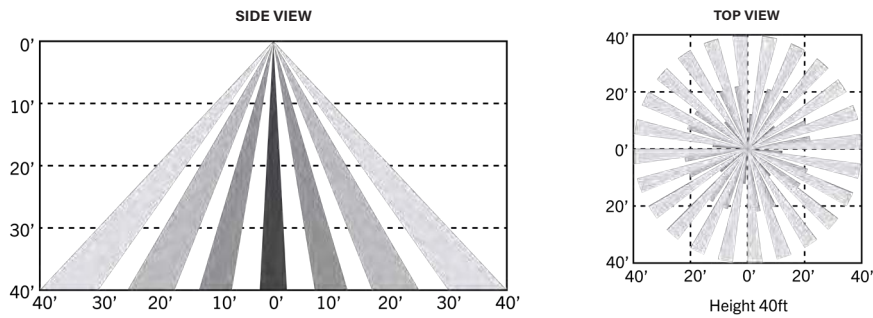
Electrical Specifications

CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-HBFC1-UV-KO-PIR /G2	120-277VAC, 50-60Hz	<1W	6.0A	2.4GHz	100ft	40' max	120°	30-2500 lux	Bluetooth 4.2

Wiring Diagram



Lens Coverage



USB Time Keeper

KTSL-TK1-USB

Bluetooth Wireless Backup Time Keeper



Features & Benefits

- Commissioned via SmartLoop mobile app for iPhone and Android
- Internal CR1220 battery backup to retain time during a power outage
- Appears as a keypad in the SmartLoop app, giving the user an additional virtual keypad
- Utilizes Bluetooth mesh technology for reliable and secure wireless communication
- Indicator LED communicates device status
- Powered by any standard USB-A charging port

Electrical Specifications

CATALOG NUMBER	INPUT POWER	BATTERY LIFETIME	RF TRANSMIT POWER	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	WIRELESS PROTOCOL
KTSL-TK1-USB	5V USB, internal CR1220 battery backup for retaining time	10 Years	8dBm	2.4GHz	100ft	Bluetooth 4.2

Environmental Specifications

OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY	LIFETIME RATING	MOISTURE AND DUST RATING
- 40°C/- 40°F to 45°C/113°F	- 40°C/- 40°F to 85°C/185°F	5-90%	50,000 hrs	IP20

EMC Compliance

- FCC: Part 15.247





Keystone Technologies Philadelphia, PA 800.464.2680 [keystonetech.com](http://keystonetech.com)

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