SINCE 1945 KEYSTONE LIGHT MADE EASY®

SMART LOOP POWERED BY KEYSTONE

KTSL-HBFC1-UV-KO-PIR/G2

DESCRIPTION

Bluetooth mesh wireless fixture controller for SmartLoop system with integrated daylight and PIR motion sensors. For use on high bay fixtures.

APPLICATION

Ideal for small- to medium-size systems, such as auditoriums and warehouses

c UL us LISTED · DLC LISTED · RoHS Compliant · TRUSTED NB WARRANTY · FC · Bluetooth®

PRODUCT FEATURES

- 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

Input Power	120–277VAC, 50-60Hz
Standby Power	<1W
Max Load Current	6.0A
RF Transmit Power	5dBm
Sensor Wires	Class 2
Max Motor Load	1/6hp
Turn-on Delay Time	< 0.5s
Relay Turn-off Time	2s
Max 0–10V Sinking Current	10mA
Wireless Frequency	2.4GHz
Wireless Range (Open Air)	100ft
Wireless Protocol	BLE5
Sensor Detection Height	40' max
Sensor Detection Angle	120°
Daylight Harvesting Range	30-2500 lux

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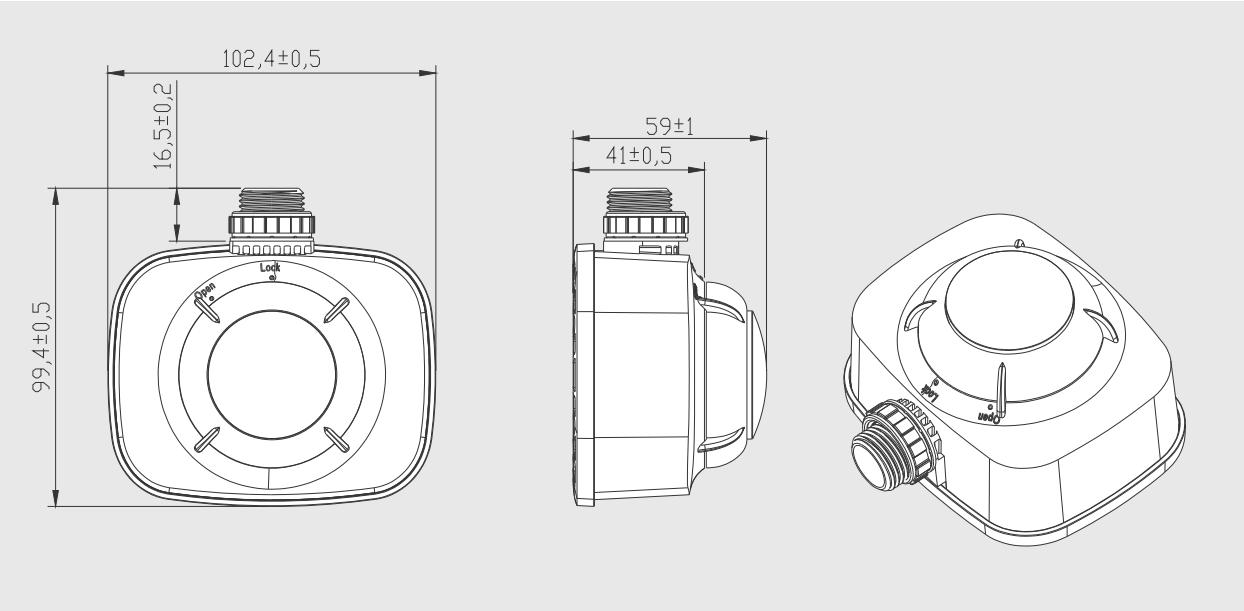
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	– 40ºC/ – 40ºF to 70ºC/158ºF
Storage Temperature	– 40ºC/ – 40ºF to 85ºC/185ºF
Humidity	5–90%
Lifetime Rating	50,000 hrs
Moisture and Dust Rating	IP66

SAFETY AND EMC COMPLIANCE

UL/cUL	UL8750
FCC	Part 15.247

PHYSICAL SPECIFICATIONS



Mounting	1/2" knockout
Length	4.03"
Width	3.91"
Height	2.08"
Weight	6.0 oz.
Case Material	Plastic

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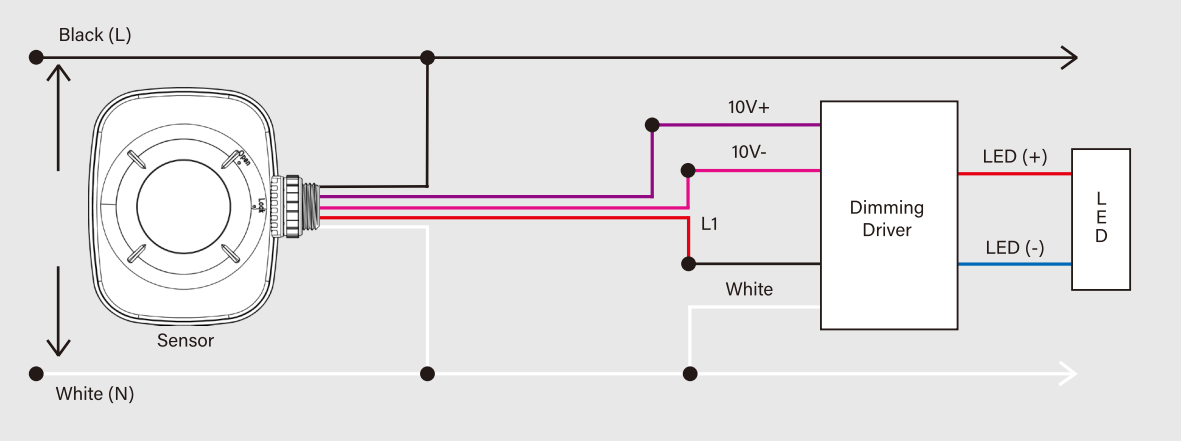
WIRING DIAGRAM

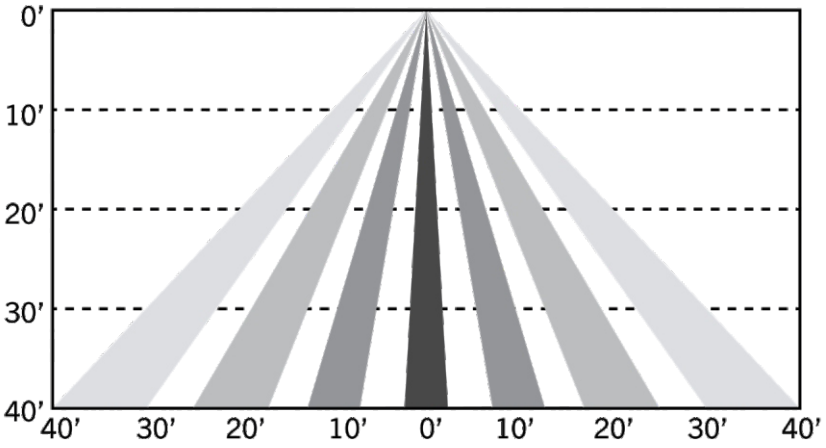


WIRE SPECIFICATIONS

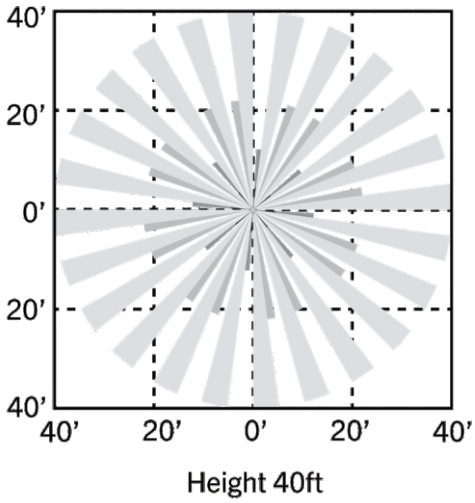
Name	Function	Color	Gauge	Type	Length	Strip Length
L	Input Hot	Black	18AWG	Solid	12.59″	0.39″
N	Neutral	White				
L1	Switched Hot Out	Red				
10V+	Dimming Level	Purple				
10V–	Low Voltage Common	Pink				

LENS COVERAGE

SIDE VIEW



TOP VIEW



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FACTORY RESET

If a controller is assigned to another region, it will not appear when searching for new fixtures. Perform the following power cycle sequence to factory reset the controller:

1. Power on for 1 second, then off for 10 seconds.
2. Power on for 1 second, then off for 10 seconds.
3. Power on for 1 second, then off for 10 seconds.
4. Power on for 10 seconds, then off for 10 seconds.
5. Power on for 10 seconds, then off for 10 seconds.
6. Turn the fixture back on. The device should now be decommissioned and ready to add to a region.

ORDERING INFORMATION

ORDER CODE	PACK QTY.	UPC	EASY CODE	DLC PRODUCT ID
KTSL-HBFC1-UV-KO-PIR	54	843654129266	AEJ-50	N-ZPC4JY

CATALOG NUMBER BREAKDOWN

KTSL-HBFC1-UV-KO-PIR

1	2	3	4	5	6

1 Keystone Technologies SmartLoop
2 High Bay Fixture Controller
3 Design Style 1
4 Universal Voltage
5 KnockOut Installation Style
6 PIR Sensor Type

FCC Statement:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

RF Exposure

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.