SINCE 1945 KEYSTONE LIGHT MADE EASY®

SMART LOOP POWERED BY KEYSTONE

KTSL-HBFC1-UV-KO-PIR

BLUETOOTH WIRELESS FIXTURE CONTROLLER AND SENSOR

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 · FC · RoHS Compliant · TRUSTED NB WARRANTY · 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	10.0A @120V, 4.3A @ 277V
RF Transmit Power	8dBm
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	50mA
Wireless Frequency	2.4GHz
Wireless Range (Open Air)	100ft
Wireless Protocol	Bluetooth v4.2
Sensor Detection Height	40' max
Sensor Detection Angle	120°
Daylight Harvesting Range	30-2500 lux

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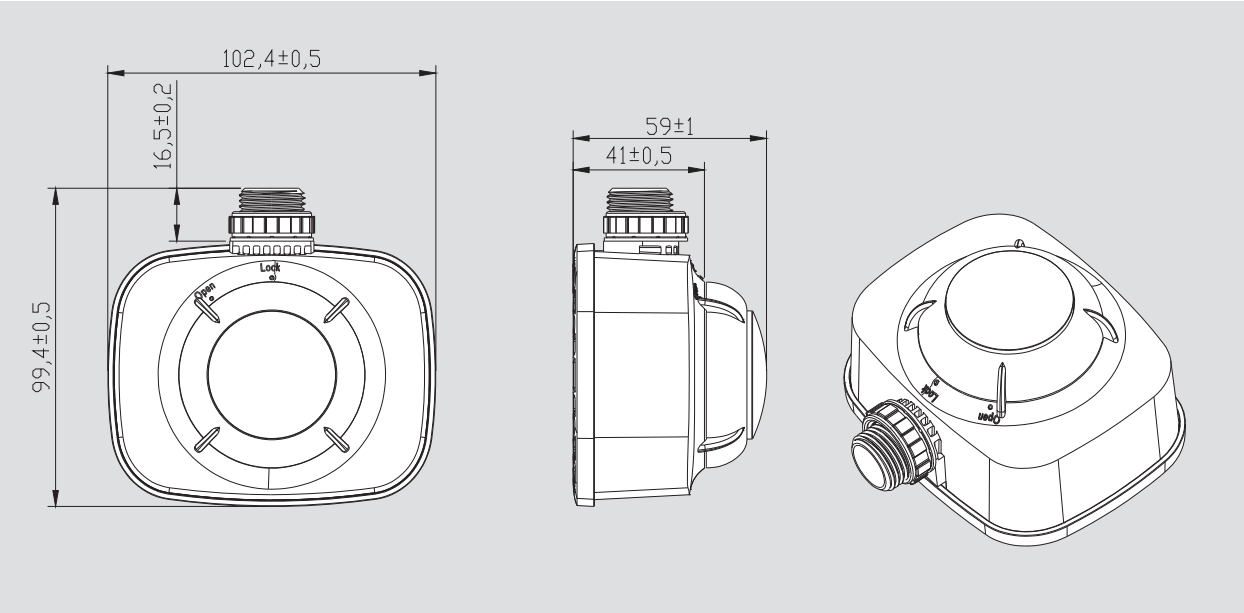
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	– 40ºC/– 40ºF to 70°C/158ºF
Storage Temperature	– 40ºC/– 40ºF to 85°C/185ºF
Humidity	5–90%
Lifetime Rating	50,000 hrs
Moisture and Dust Rating	IP40

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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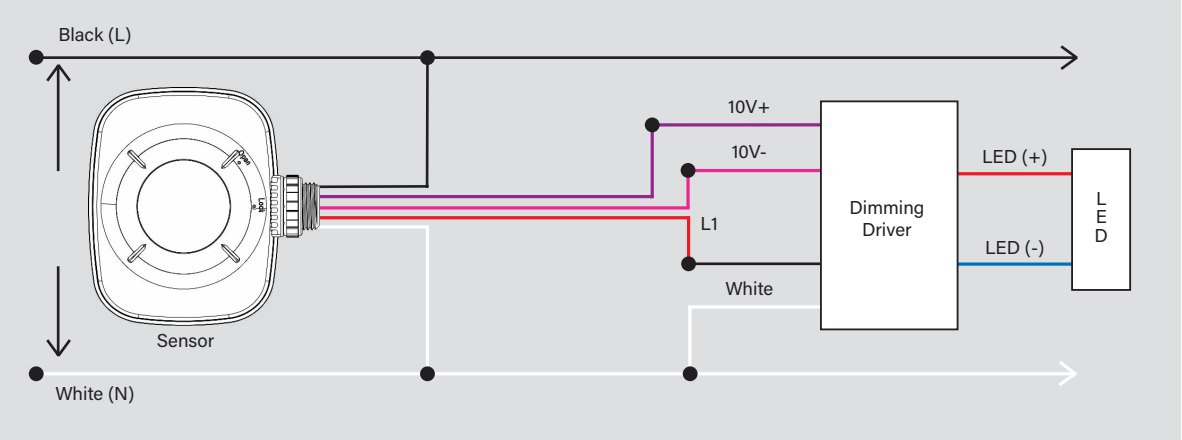
WIRING DIAGRAM

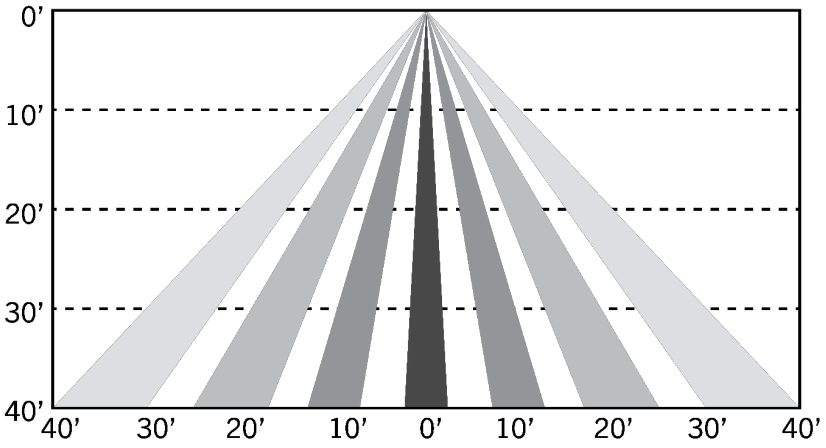


WIRE SPECIFICATIONS

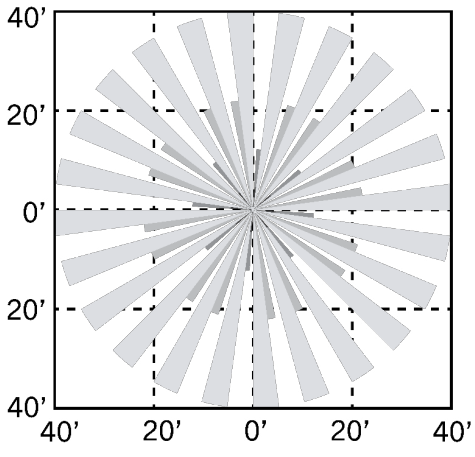
Name	Function	Color	Gauge	Type	Length	Strip Length
L	Input Hot	Black	18AWG	Solid	12.59″	0.39″
N	Neutral	White				
L1	Switched Hot Out	Red				
10V+	Dimming Level	Purple				
10V–	Low Voltage Common	Pink				

LENS COVERAGE

SIDE VIEW



TOP VIEW



Height 40ft

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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**