



KTSL-FC6-UV-KO

LOAD CONTROLLER

DESCRIPTION

Bluetooth mesh wireless fixture controller for SmartLoop system

APPLICATION

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



PRODUCT FEATURES

- Use of a relay, 0–10V dimming, and a 1/2" knock-out enable compatibility with many standard industry fixtures
- Features a 20A relay for controlling higher capacity loads than standard fixture controllers
- Commissioned via SmartLoop mobile app for iPhone
- 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

Input Power	120–277VAC, 50–60Hz
Standby Power	<1W
Max Load Current	20A
RF Transmit Power	<8dBm
Turn-on Delay Time	<0.5s
Max 0–10V Sinking Current	48.5mA
Wireless Frequency	2.4GHz
Wireless Range (Open Air)	100ft
Wireless Protocol	Bluetooth v5.0

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	–30°C/–22°F to 55°C/131°F
Storage Temperature	–30°C/–22°F to 85°C/185°F
Lifetime Rating	50,000 hrs
Moisture and Dust Rating	IP20

SAFETY AND EMC COMPLIANCE

UL/cUL	UL8750, UL2043
FCC	Part 15.247

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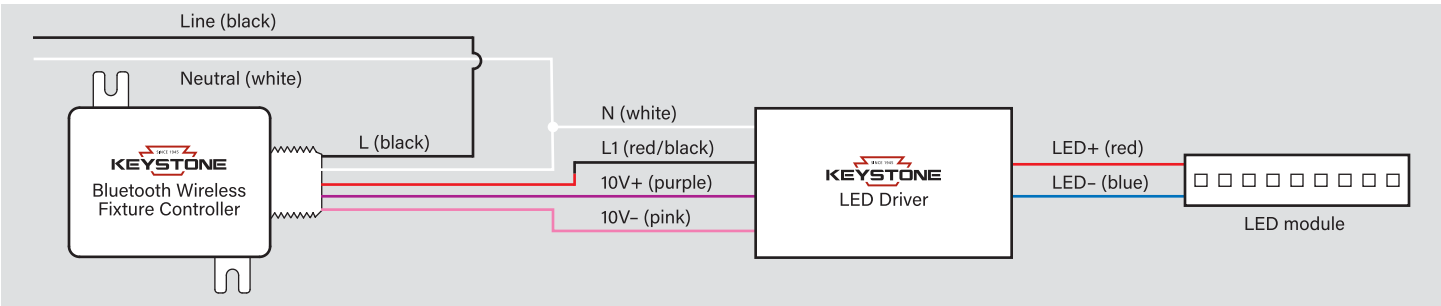
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PHYSICAL SPECIFICATIONS

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KTSL-FC6-UV-KO	
A	0.17"
B	2.37"
C	17.75"
D	0.59"
L (Length)	4.16"
H (Height)	1.49"
T (Tabs)	3.24"
W (Width)	3.59"
Weight	7.3 oz.
Case Material	Plastic

WIRING SPECIFICATIONS



Name	Function	Color	Gauge	Type	Length	Strip Length
L	Input Hot	Black	18AWG	Solid	17.75"	0.59"
N	Neutral	White				
L1	Switched Hot Out	Red				
10V+	Dimming Level	Purple	22AWG	Stranded	17.75"	0.59"
10V-	Low Voltage Common	Pink				



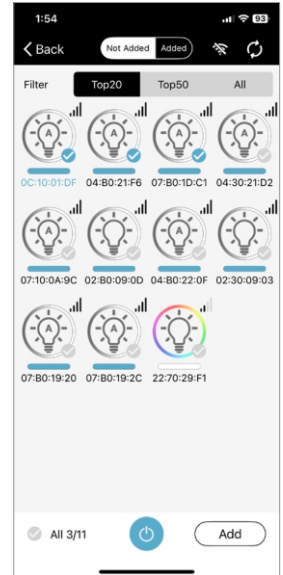


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COMMISSIONING

Search for 'SmartLoop' on the app store for iPhone (iOS 8.0 or later, and Bluetooth 4.0 or later).
 With controllers installed and lights powered on, press + or Click to Add. The app will begin searching for available lights.
 Check ☒ each light to be commissioned to the region.
 Press Add to confirm selections. The selected lights will now appear on the Lights page.
 For further system commissioning, see User Manual at www.keystonetech.com.



FACTORY RESET

Decommissioning can be done by deleting a controller from the region, a power reset sequence, or by using the reset button for certain models.

In the app

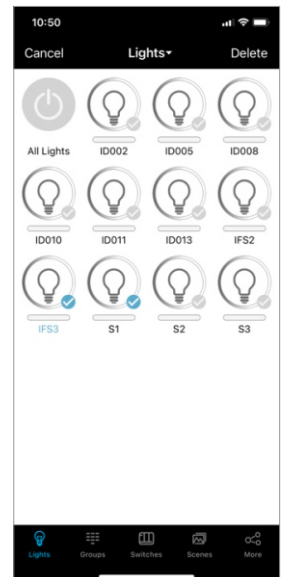
The phone/tablet must be connected to the device through the mesh network in order for the controller to be factory reset. Otherwise, the light will simply be removed from the region in the app, and the controller will need to be factory reset using one of the other methods below.

1. Go to the **Lights** page.
2. Press *Select* and check ☒ the desired lights to decommission.
3. Press *Delete* and *Confirm*.

Power cycle reset sequence

If a controller is assigned to another region, it will not appear when searching for new fixtures. Perform the below 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 light back *On*. The device should now be decommissioned and ready to add to a region.





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ORDERING INFORMATION

Catalog Number	Carton QTY	UPC	Easy Code
KTSL-FC6-UV-KO	50	843654177809	OYI-88

CATALOG NUMBER BREAKDOWN

KTSL-FC6-UV-KO

- 1
- 2
- 3
- 4
- 5

- 1 Keystone Technologies SmartLoop
- 2 Fixture Controller
- 3 Design Style 6
- 4 Universal Voltage
- 5 KnockOut Installation Style





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.