



KTSL-FC1-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
- 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	6.0A
RF Transmit Power	8dBm
Turn-on Delay Time	< 0.5s
Max 0–10V Sinking Current	10mA
Wireless Frequency	2.4GHz
Wireless Range (Open Air)	100ft
Wireless Protocol	Bluetooth v5.0

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	– 40°C/– 40°F to 55°C/131°F
Storage Temperature	– 40°C/– 40°F to 85°C/185°F
Humidity	5–90%
Lifetime Rating	50,000 hrs
Moisture and Dust Rating	IP20

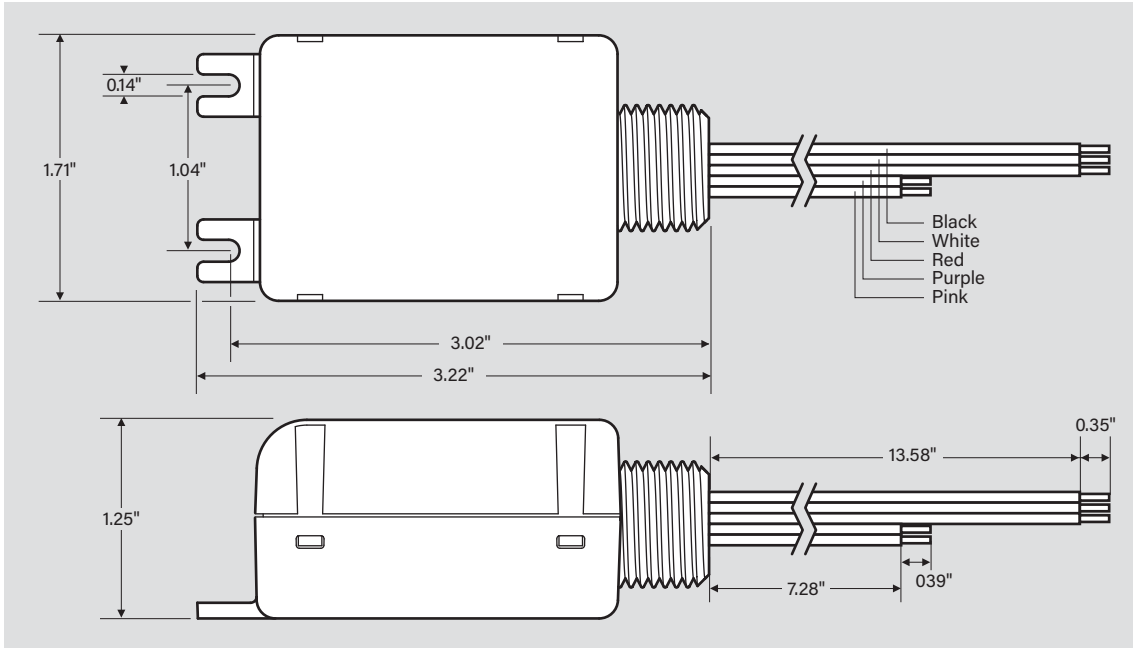
SAFETY AND EMC COMPLIANCE

UL/cUL	UL8750, UL2043
FCC	Part 15.247

KTSL-FC1-UV-KO

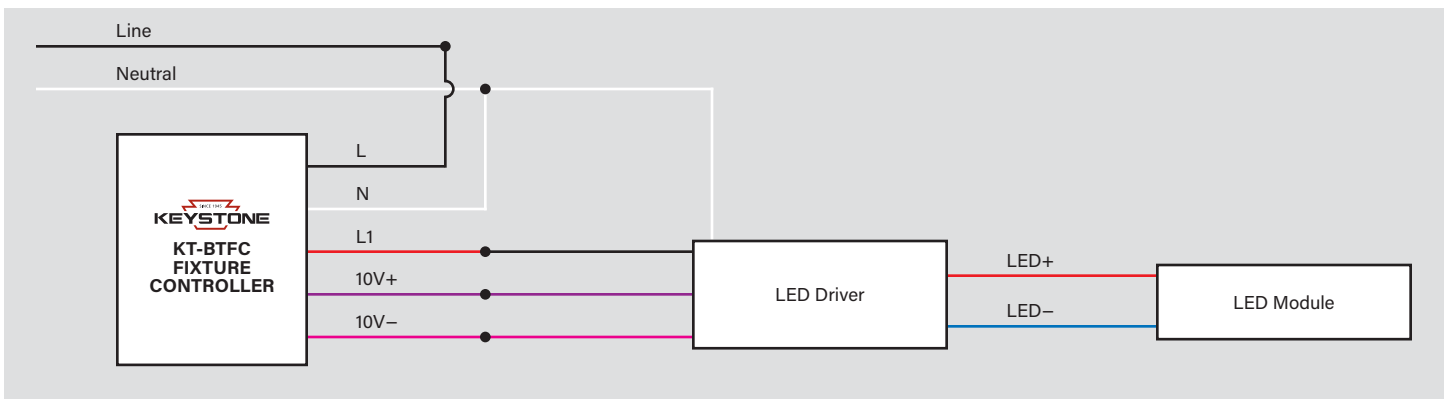
LOAD CONTROLLER

PHYSICAL SPECIFICATIONS



Mounting	1/2" knockout or screw tabs
Length	3.22"
Width	1.71"
Height	1.25"
Tabs	1.04"
Weight	3.0 oz.
Case Material	Plastic

WIRING DIAGRAM



WIRE SPECIFICATIONS

Name	Function	Color	Gauge	Type	Length	Strip Length
L	Input Hot	Black	18AWG	Solid	13.58"	0.35"
N	Neutral	White			13.58"	0.35"
L1	Switched Hot Out	Red			13.58"	0.35"
10V+	Dimming Level	Purple	22AWG	Stranded	7.28"	0.39"
10V-	Low Voltage Common	Pink			7.28"	0.39"

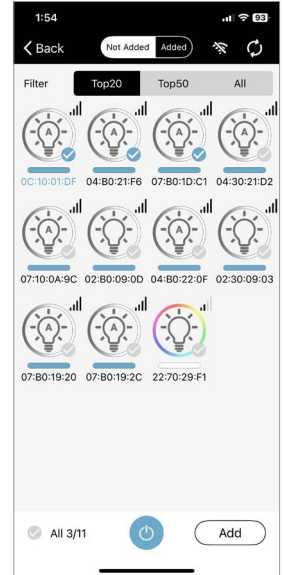


KTSL-FC1-UV-KO

LOAD CONTROLLER

COMMISSIONING

1. Search for 'SmartLoop' on the app store for iPhone (iOS 8.0 or later, and Bluetooth 4.0 or later).
2. With controllers installed and lights powered on, press + or Click to Add. The app will begin searching for available lights.
3. Check ☒ each light to be commissioned to the region.
4. Press Add to confirm selections. The selected lights will now appear on the Lights page.
5. 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

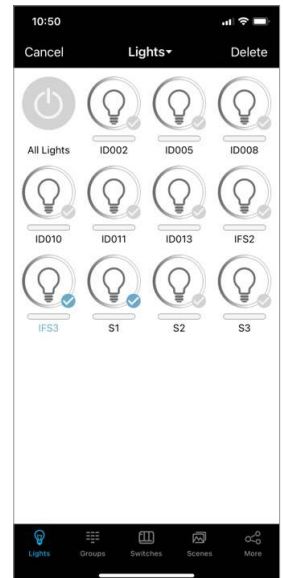
The phone/tablet must be connected to the device through the mesh network in order for the controller to be factory reset. Otherwise, the light will simply be removed from the region in the app, and the controller will need to be factory reset using one of the other methods below.

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.





KTSL-FC1-UV-KO

LOAD CONTROLLER

ORDERING INFORMATION

ORDER CODE	PACK QTY.	EASY CODE	UPC
KTSL-FC1-UV-KO	24	PGZ-80	843654129242

CATALOG NUMBER BREAKDOWN

KTSL-FC1-UV-KO

1 2 3 4 5

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