

KTSL-FC2-12V-SM-PIR

DESCRIPTION

Bluetooth mesh wireless low voltage individual fixture controller for SmartLoop system with integrated daylight and PIR motion sensors.

APPLICATION

Ideal for small- to medium-size systems, such as schools and offices. Installs directly into 0-10V fixtures with available 12V auxiliary power.



Bluetooth®

PRODUCT FEATURES

- Small form factor for unobtrusive installation
- 0-10V control wires for integration with most commercially available fixtures
- 12VDC input (use driver with 12V aux power)
- Installs via 3/8" drilled hole on fixture sheetmetal. Simply drill, route the wires and threaded collar through, and tighten nut to lock into place.
- 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
- Indicator LED communicates device status
- UL2043 certified for plenum installations
- Suitable for dry and damp locations

ELECTRICAL SPECIFICATIONS

Input Voltage	12VDC
Power Consumption	0.2W
RF Transmit Power	8.5dBm
Max 0-10V Sinking Current	10mA
Wireless Frequency	2.4GHz
Wireless Range (Open Air)	100ft
Wireless Protocol	BLE5
Sensor Detection Height	16' max
Sensor Detection Angle	120°
Daylight Harvesting Range	100-1000 lux

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C/-4°F to 60°C/140°F
Storage Temperature	-40°C/-40°F to 85°C/185°F
Humidity	5-95%
Lifetime Rating	>100,000 hrs
Moisture and Dust Rating	Suitable for dry and damp locations

FACTORY SETTINGS

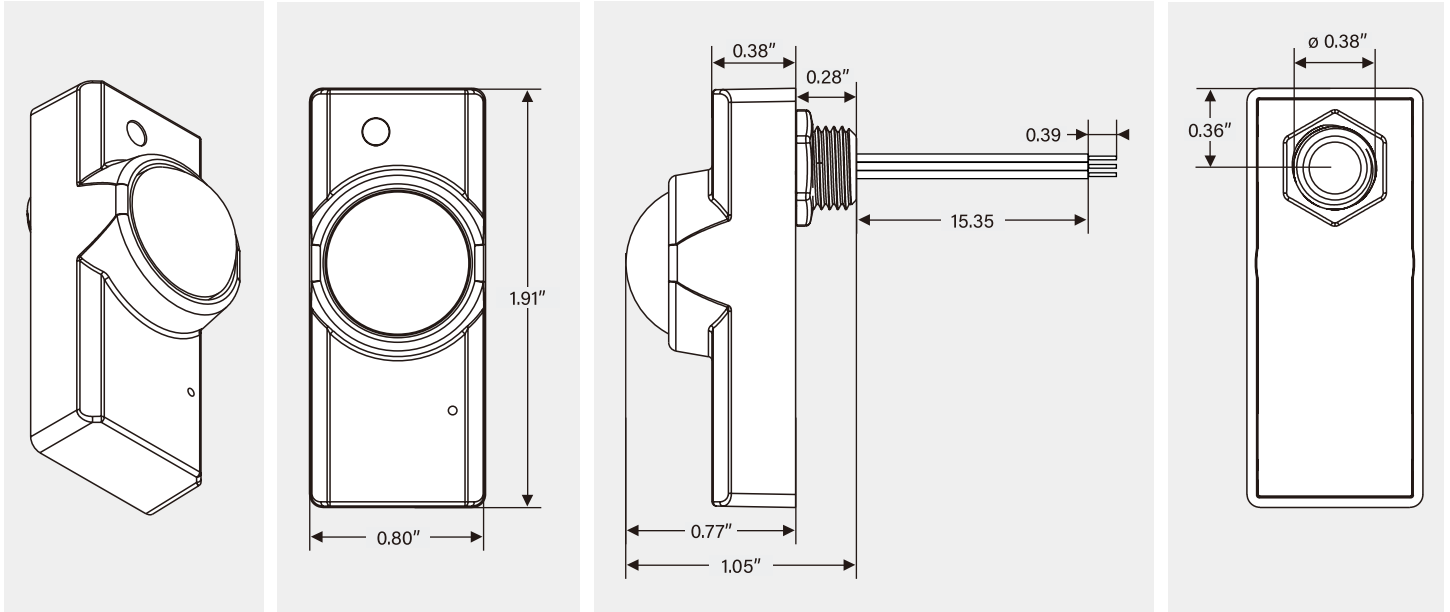
Photo Sensor	Enabled
Motion Sensitivity	100%
Motion Sensor	Enabled
Motion Mode	Occupancy
Hold Time	20m
Standby Time	1m
Standby Percentage	50%

SAFETY AND EMC COMPLIANCE

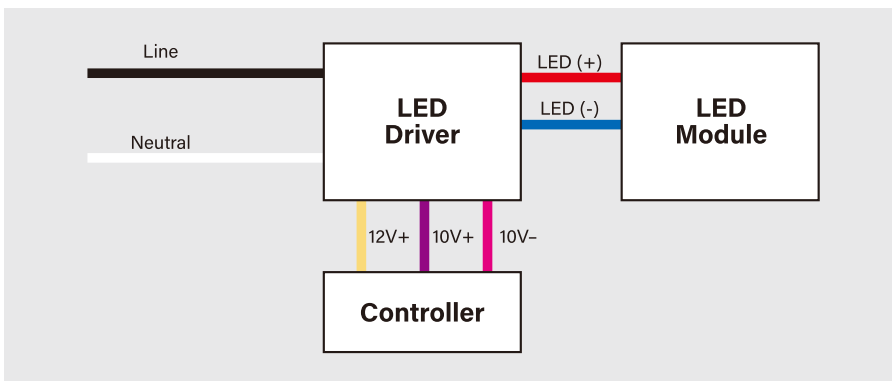
UL/cUL	UL8750, UL2043
FCC	Part 15.247

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PHYSICAL SPECIFICATIONS



WIRING DIAGRAM

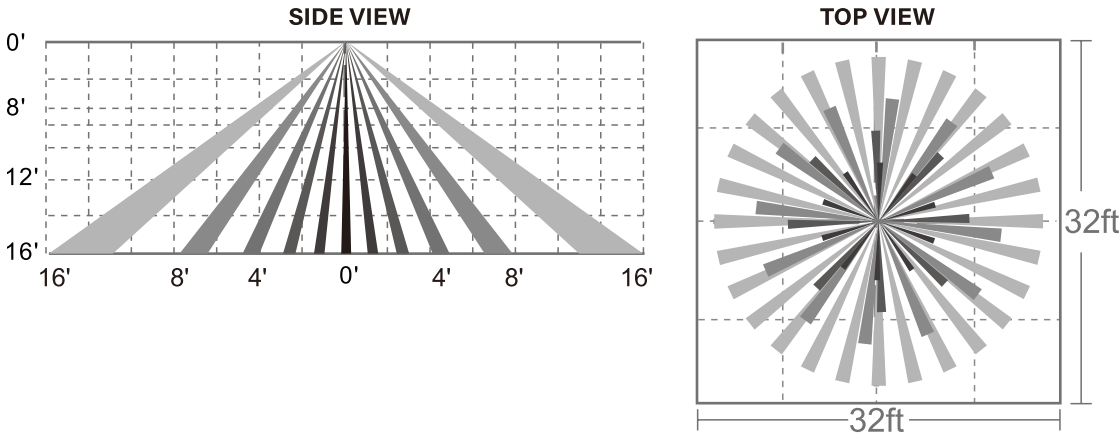


WIRE SPECIFICATIONS

Name	Function	Color	Gauge	Type	Length	Strip Length
+12V	Aux Power	Yellow	22AWG	Stranded	15.35"	0.39"
10V+	Dimming Level	Purple				
10V-	Low Voltage Common	Pink				

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LENS COVERAGE



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.	EASY CODE	UPC
KTSL-FC2-12V-SM-PIR	54	TCM-01	843654135236

CATALOG NUMBER BREAKDOWN

KTSL-FC2-12V-SM-PIR

1 **2** **3** **4** **5** **6**

- 1 Keystone Technologies SmartLoop
- 2 Fixture Controller
- 3 Design Style 2
- 4 Low Voltage
- 5 Surface Mount
- 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.