

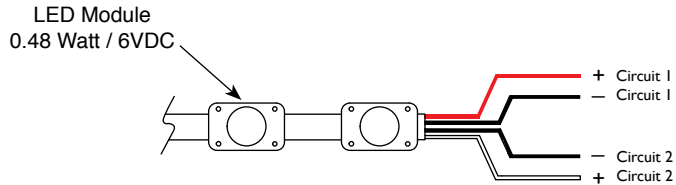


TOKISTAR LIGHTING INSTRUCTION MANUAL

TokiLum™ Series

General Description

Tokistar's TokiLum Series is a 6 VDC lighting system using 0.48 Watt LEDs sealed to a flexible cable. TokiLum fixtures have two independent circuits, each rated for a maximum of 5 amps.

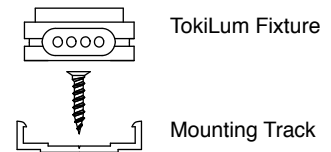


Light Source	
Description	Part No.
2" O.C. 0.48 Watt LED	LUM-50-IW
2" O.C. 0.48 Watt LED	LUM-50-WH
2" O.C. 0.48 Watt LED	LUM-50-BL
4" O.C. 0.48 Watt LED	LUM-100-IW
4" O.C. 0.48 Watt LED	LUM-100-WH
4" O.C. 0.48 Watt LED	LUM-100-BL

Mounting Fixtures

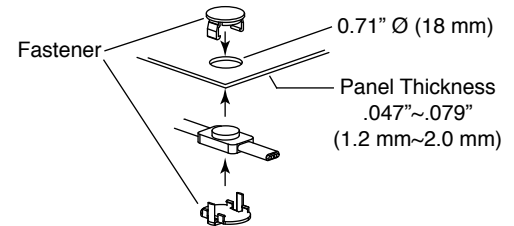
Option 1 - Mounting Track (Part # TRI-MT)

A PVC mounting track may have been provided with your material. The track can be attached with screws, construction adhesive or hi-bond adhesive. If attached with screws, install them every 8" on center. Once the track is securely in place, snap in the LED modules.



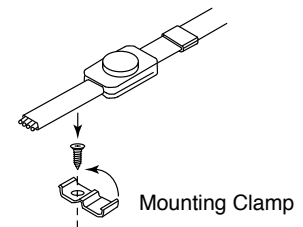
Option 2 - Panel Fastener (Part # TRI-PF)

Panel fasteners consist of two parts. The upper part of the fastener is inserted through the top of the panel. The bottom part of the fastener is attached to the base of the LED module. This assembly is then snapped into the upper part of the fastener.



Option 3 - Mounting Clamp (Part # TRI-MC)

For maximum flexibility TokiLum may be installed with mounting clamps. Screw each clamp securely in place, then snap the clamp over the cable.



⚠ PRECAUTIONS

1. Read all instructions completely before beginning installation.
2. Turn off electricity before beginning installation.
3. All wiring is to be performed by a qualified electrician.
4. Installation must comply with the National Electrical Code, and all applicable codes.
5. Turn main supply to the LED Driver on only after all connections have been made and tested.
6. Use only LED Drivers provided by Tokistar with the system.
7. Certain adhesives produce a bi-product of corrosive gas during their curing process, and should not be used in conjunction with our LED Systems where the gas cannot be vented. Consult with the Sealant company for such applications.

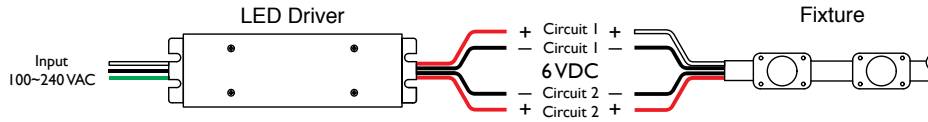
TOKISTAR® LIGHTING

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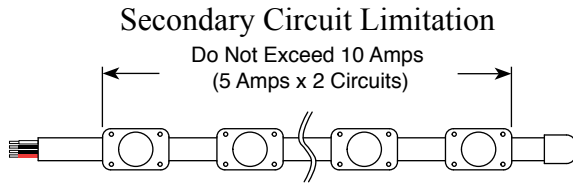
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Installation Instructions

Secondary Circuit Wiring



TokiLum fixtures have two independent Class 2 circuits. Each circuit is fed by one of the two 5 amp outputs from the LDR6-60 LED Driver.



Maximum Run Lengths	
LED Spacing	Length
2" (50 mm)	20' (6 M)
4" (100 mm)	40' (12 M)

The distance from the fixture to the LED Driver, and the LED spacing of the fixture, will determine the proper size of the secondary wire needed. The chart to the right indicates recommended wire size based on these two variables.

Wire Size	2" O.C. Spacing	4" O.C. Spacing
	Wire Length	Wire Length
#16 AWG	24' (7.3 M)	12' (3.6 M)
#14 AWG	36' (11 M)	18' (5.5 M)
#12 AWG	48' (14.6 M)	24' (7.3 M)
#10 AWG	72' (22 M)	36' (11 M)

LED Driver Installation

The LDR6-60 is a UL Recognized Class 2 LED Driver used to convert an AC input into a 6 VDC output. The Driver has two independent 5 amp (30 watt) outputs. Refer to the manual provided with the LED Driver for detailed installation instructions.



TokiLum is a **Wet-Location Listed System** when operated from our LED Drivers

Part No.	Input Volts	Output Volts	Output Ratings
LDR6-60	100-240 VAC	6 VDC	2 @ 5 Amps (10 Amps total)

LED Dimmer Instructions (Optional)

TokiLum fixtures have two independent circuits. Each circuit must be operated from an independent dimmer pack.

LC Dimming System

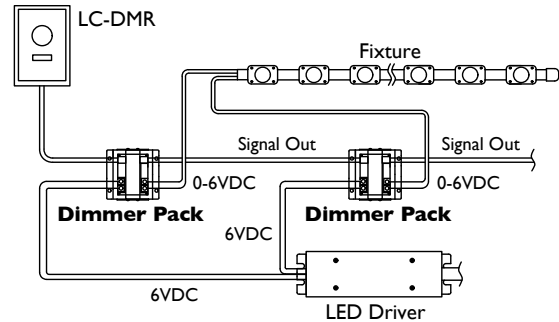
Wall Dimmer - Part #: LC-DMR

Power to the remote wall dimmer is provided from the LED Driver powering the first Dimmer Pack. A 50 foot CAT5 cable is provided.

Dimmer Pack - Part #: LC-1CH-DP

Each dimmer pack receives one of the two 6 VDC outputs from an LDR6-60 LED Driver. A CAT5 cable is provided with each unit. Up to 25 dimmer packs may be connected in series if the total length of all CAT5 cable does not exceed 165 feet from the wall dimmer to the last dimmer pack. CAT5 cables are included with each unit.

For further information, refer to the instruction manual provided with the LC-1CH-DP.



DMX Dimming System

Tokistar's LC-1CH-MULTI Dimmer Pack is compatible with industry-standard dimmers working on DMX or 0/1-10 VDC protocol.

Dimmer Pack - Part #: LC-1CH-MULTI

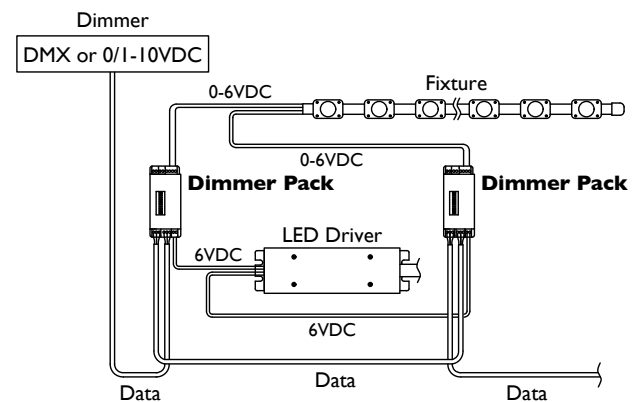
Each dimmer pack receives one of the two 6 VDC outputs from an LDR6-60 LED Driver.

DMX Mode - Each unit is independently addressable. Up to 36 dimmer packs may be connected in series. For applications exceeding 36 dimmer packs, an additional feed from the DMX dimmer is required. The additional feed(s) can be sent directly from the dimmer, or you may specify DMX Splitters. Consult factory on details of DMX Splitters.

Analog Modes - For operation from devices using 0/1-10VDC protocol, up to 10 dimmer packs may be connected in series. For applications exceeding 10 dimmer packs, an additional feed from the analog dimming device is required.

Manual Mode - You may select a light intensity the fixtures will operate at. In this case, no external dimming device is required.

For further information, refer to the instruction manual provided with the LC-1CH-MULTI.



PRECAUTION

All dimming components are rated for dry location only. They must be installed within an enclosure suitable for the environment.

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