



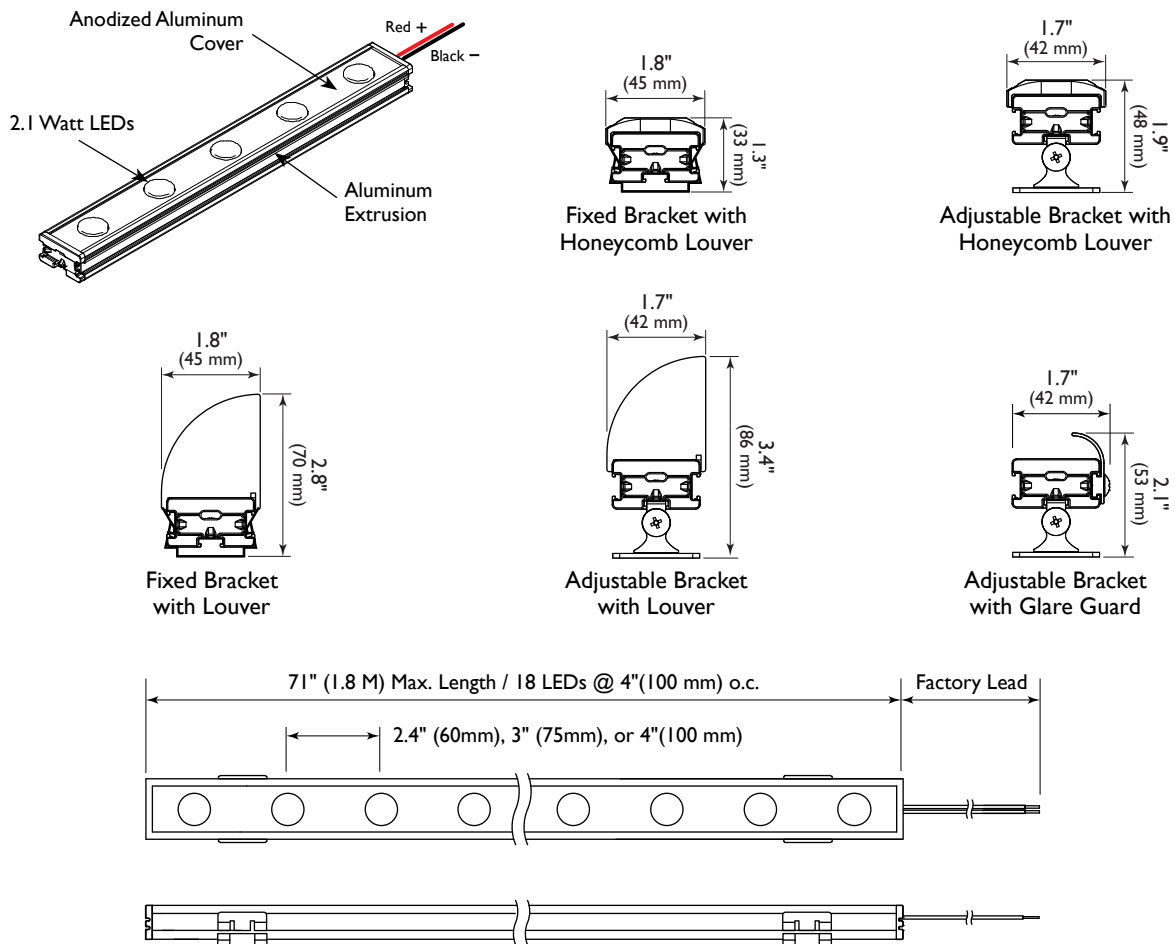
# TOKISTAR LIGHTING INSTRUCTION MANUAL

## GRHB Series

700mA

### General Description

Tokistar's GRHB Series operates at 700mA and is designed for interior use. Light sources are 2.1 watt LEDs. Each GRHB fixture is labeled with its appropriate load. The system operates from our constant-current LDRCC-40 dimmable LED driver.



### ! PRECAUTIONS

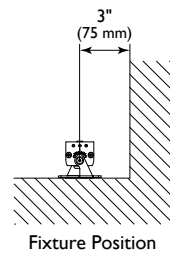
1. Read all instructions completely before beginning installation.
2. Turn off electricity before beginning installation.
3. All wiring is to be performed by a qualified electrician.
4. Installation must comply with the National Electrical Code, and all applicable codes.
5. Turn main supply to LED Driver on only after all connections have been made and tested.

## TOKISTAR® LIGHTING

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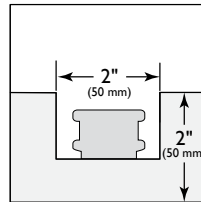
## Wall Grazing (Distance from the Wall)

To prevent scalloping, position the center of the fixture a minimum of 3" from the surface to be illuminated.



## Space Requirements

For proper air flow, the dimensions indicated are required to prevent heat build up.

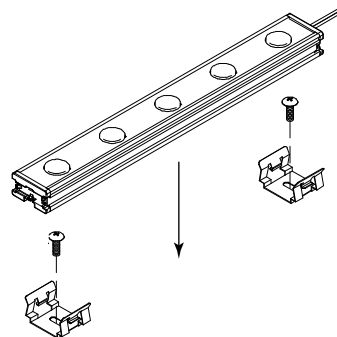
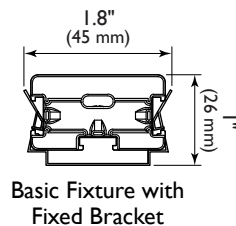


## Mounting

Mounting options include fixed or pivoting brackets. Two brackets are required per fixture.

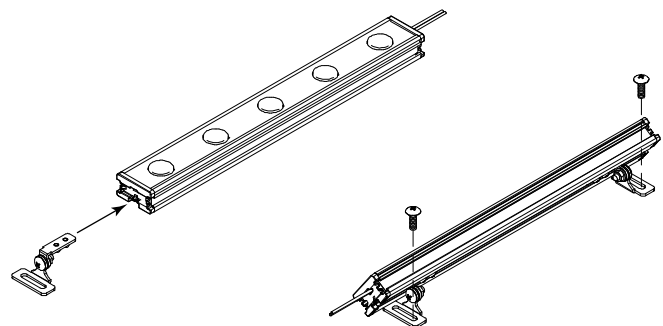
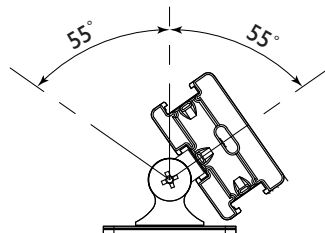
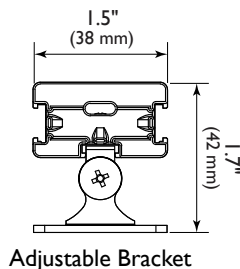
### Part #: GRHB-F-MB

Fixed Mounting Bracket



### Part #: GRHB-A-MB

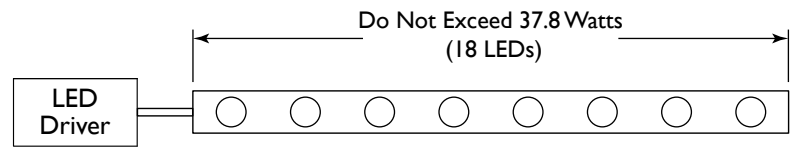
Adjustable Mounting Bracket



## PRECAUTION

Do Not Modify fixtures in the field.

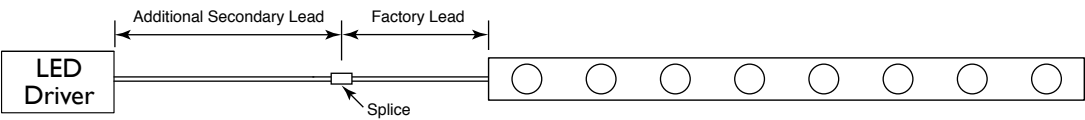
Secondary Circuit Limitation



Recommended Lead Wire Size

The distance from the power supply to the fixture, and the load of the fixture, will determine the proper size of secondary wire. Fixtures are provided with a factory lead. If additional wire needs to be attached, refer to the recommendation in this chart.

Secondary Lead Wires	
Wire Size	Wire Length
#18 AWG	300' (90 M)



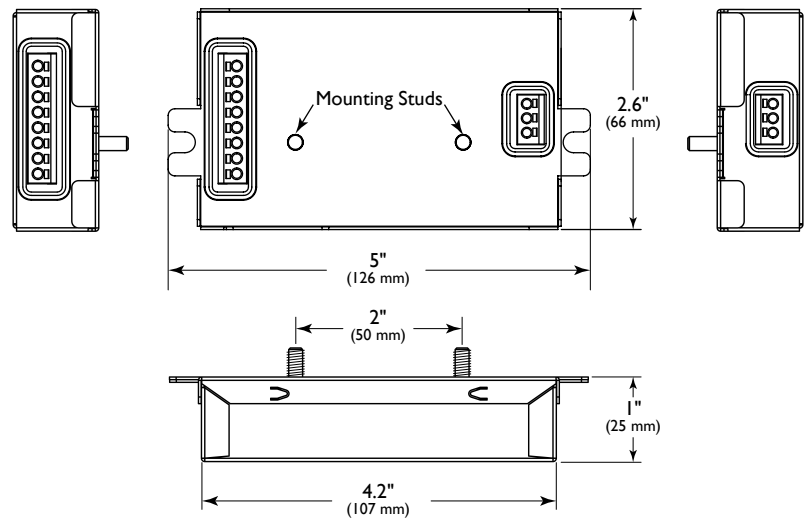
LED Driver

Part#: LDRCC-40

Our constant-current LED Driver operates on the PWM method and accepts input from 0-10 VDC dimming controls. The driver has full range dim-to-off capability.

The input is universal ranging from 100 to 277 VAC 50/60 Hz. The driver may accept wiring from the ends, or be mounted to an enclosure and accept wiring from below.

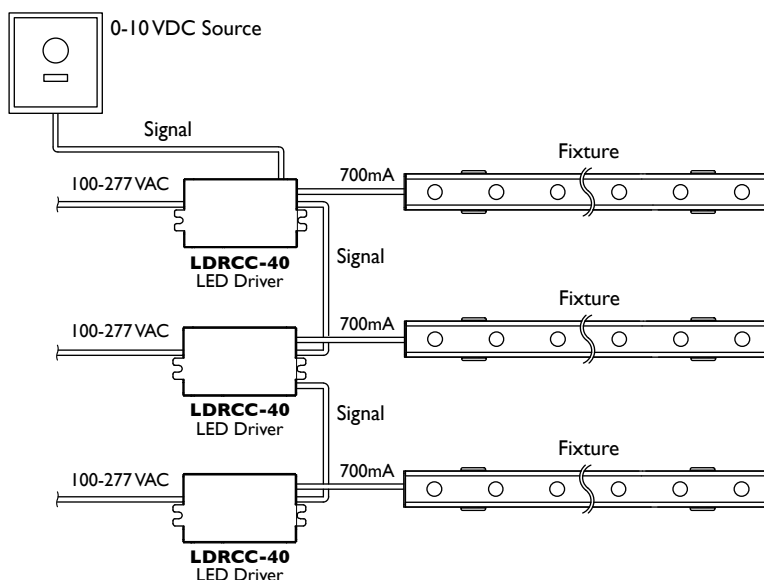
Part#	Input Volts	Output Voltage	Output Current	Capacity
LDRCC-40	100~277	3-57VDC	700mA	18 LEDs



## Dimming Control

Up to 30 LDRCC-40 LED Drivers can be connected in series from a single 0-10 VDC source. The maximum distance from the 0-10 VDC source to the last LED driver is 250 feet/75 meters based upon the use of #18 AWG shielded cable.

For applications operating from DMX, Dali or other protocols, check with the dimmer manufacturer to provide a suitable interface to generate a 0-10 VDC signal.



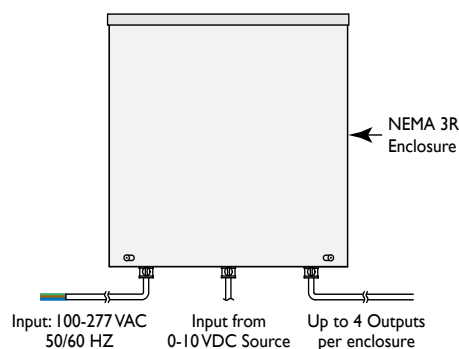
## LED Driver Enclosures

**Part#s: LDRCC-ENC-40, LDRCC-ENC-80, LDRCC-ENC-120, LDRCC-ENC-160**

Tokistar offers a UL Listed enclosure including 1-4 LED drivers inside. The enclosure is rated NEMA 3R and suitable for wet locations. Terminal blocks provide reliable and convenient connection points.

The enclosure may be installed at remote locations up to 300 feet/90 meters from the fixture with the use of # 18AWG secondary wire.

Dimensions: 12.25" x 12" x 4.5"



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