

# TOKISTAR Exhibitor RGB



TOKISTAR LIGHTING



# Exhibitor RGB

Tokistar's Exhibitor RGB Series is a wet-location lighting system designed to colorfully add light to an environment. You may select or create any color to complement the surroundings or a theme. The system can be animated to fade or flash from color to color.

Light sources are solid-state Tri-Color LEDs enclosed within impact-resistant polycarbonate globes. Globes are injection blow-molded and frosted to evenly disperse light.

Each LED consumes only 0.4 Watts and operates at 8VDC. Although the life rating of LEDs is remarkable, individual light sources can be replaced to ensure the system is easily maintained for years of continuous service.

Exhibitor RGB is suitable for festoon applications attached to wire rope in open-air space. It may also be applied directly to surfaces or incorporated into signs.



## Specify by Catalog Number

### EXBK - 12 - RGB

Cable / Socket Color		Socket Spacing		LED		
Code	Color	Code	Inches (mm)	Code	Color	Watts/Volts
BK	Black	12	12" (300 mm)	RGB	Tri-Color	0.4 W / 8VDC

Consult Factory for Custom Spacing

## Specifications



Wet-Location Listed



**Light Sources** 0.4Watt / 8VDC Tri-Color LEDs

**Frosted Polycarbonate Globe** with flammability rating UL 94V-0

**Cable Insulation** is flexible PVC with flammability rating UL 94 HB

**Two O-Rings** on each globe for weatherproof seal

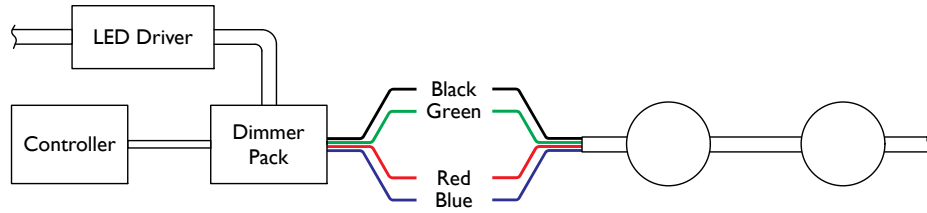
**Sockets** permanently fastened and sealed to cable

**Four Conductors** of #18 AWG stranded and plated wire within cable



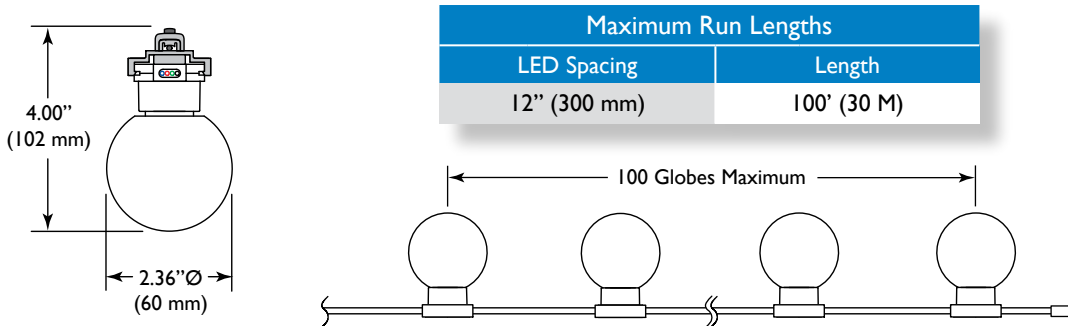
## System Overview

Exhibitor RGB Systems consist of the Lighting Fixture, Lighting Controller, Dimmer Pack and Led Driver. Refer to Page 4 for specifications on the Control Systems.



## Sizes and Lengths

Each independent Exhibitor RGB fixture can have up to a maximum of 100 globes. Fixtures may be cut to size on site.



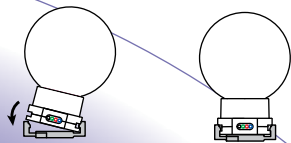
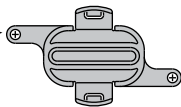
## Mounting Options

Exhibitor fixtures can be surface mounted to structures using our mounting disks or straps. For festoon applications, our wire rope adaptor securely holds each socket in place to 1/16" or 1/8"Ø wire rope.

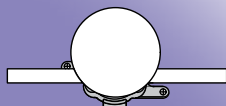
### Surface Mounting Using Disks

Part# EX-MD-BK

Mounting Disks attach with screws.



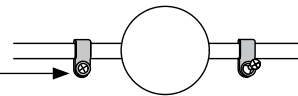
Exhibitor fixture snaps directly into the Mounting Disk and locks in place.



### Surface Mounting Using Straps

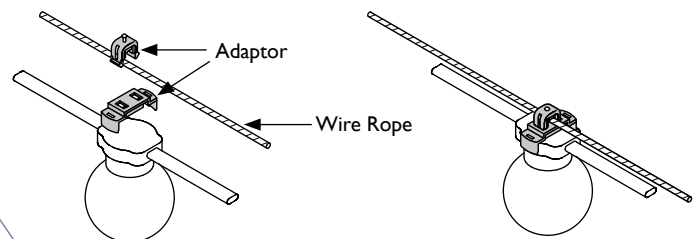
Part# EX-MS-BK

Mounting Straps attach with screws.



### Festoon Applications w/Wire Rope Adaptors

Part# EX-MDA-BK



# LED Drivers

## LDR8-40

Tokistar's LDR8-40 is a 40 Watt Class 2 LED Driver used to convert an AC input into an 8VDC output. It may be operated from a wide range of input voltages. The enclosure is suitable for wet locations. Capacity: 100 Exhibitor RGB globes.



### Specifications

Input Range: 100~240 VAC  
Frequency Range: 50/60 Hz  
Output: 8VDC (Adjustable +10% / -25%)  
Max. Output Current: 5.0A  
Max. Output Power: 40W  
Protection: Overload, Overcurrent, Short Circuit  
Operating Temperature: -30°C to +60°C

### Mechanical Specifications

Dimensions: 3" x 9.75" x 2"  
Weight: 1.94 lbs  
Enclosure Rating: Nema 3/IP65  
Mounting: Flange Mount  
Connection: Knockouts for 1/2" Conduit

## LDR8-80

Tokistar's LDR8-80 is a dual output Class 2 LED Driver with two independent 40 Watt outputs. It may be operated from a wide range of input voltages. The enclosure is suitable for wet locations. Capacity: 200 Exhibitor RGB globes.



### Specifications

Input Range: 100~240 VAC  
Frequency Range: 50/60 Hz  
Output: 8VDC (Adjustable +5% / -30%)  
Max. Output Current: 10.0A (2 @ 5.0A)  
Max. Output Power: 80W (2 @ 40W)  
Protection: Overload, Overcurrent, Short Circuit  
Operating Temperature: -30°C to +60°C

### Mechanical Specifications

Dimensions: 3.6" x 11" x 2.25"  
Weight: 4 lbs  
Enclosure Rating: Nema 3/IP65  
Mounting: Flange Mount  
Connection: Knockouts for 1/2" Conduit

# Control Systems

## Color Mix System

Our economical Color Mix System is capable of being operated on demand. One Control Station can operate up to 25 Dimmer Packs. Each Dimmer Pack operates up to 100 Exhibitor RGB globes (40 Watts maximum). CAT5 cable is provided to link the components together. Components must be installed within enclosures suitable for the environment.

Color Mix features include:

- Cross-Fading, Fading, Flashing and Demo Mode
- Ten memory locations to mix and store your favorite color selections
- Six animation patterns which cycle between favorite color selections
- Rotary dials for precise color mixing/speed-rate adjustment
- Adjustable fading/flashing rate
- Control Station includes color-changing LED indicator

## DMX System

### Part #: LC-3CH-DMX

DMX Dimmer Packs are capable of operating up to 100 Exhibitor RGB globes (40 Watts maximum). Dimmer Packs are addressable, and may be used with any controller working on DMX protocol. Dimensions: 3/4" x 1-3/4" x 3-1/2"

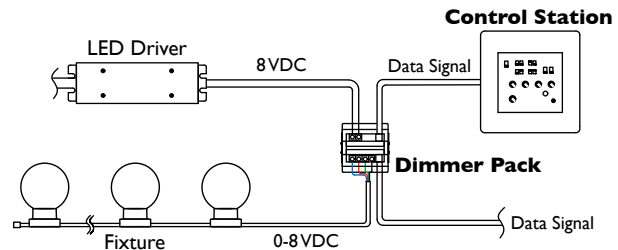
Up to 36 Dimmer Packs can be linked together with data cable. For applications exceeding 36 Dimmer Packs, a Splitter is required. Splitters can operate an unlimited number of Dimmer Packs. Consult factory for details on DMX Consoles and Splitters. Components must be installed within enclosures suitable for the environment.

### Part #: LC-3CH-CM

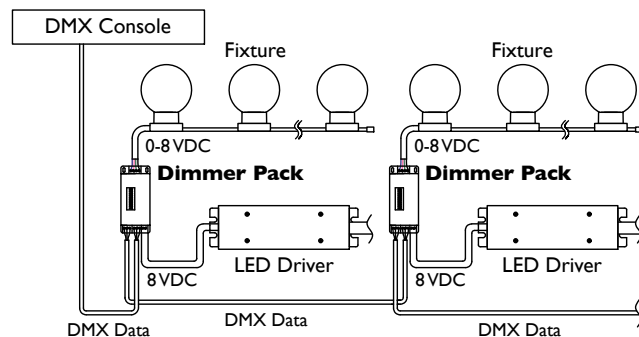
The Control Station is provided with a 50 foot CAT5 cable. Power to this unit comes from the LED Driver powering the first Dimmer Pack. The unit installs in a double-gang junction box.

### Part #: LC-3CH-DP

Each Dimmer Pack is provided with a CAT5 cable and capable of operating up to 100 Exhibitor globes (40 Watts maximum). 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 control station to last dimmer pack. Dimensions: 1-1/2" x 3-1/2" x 4-1/16"



Dual output LED Drivers require a Dimmer Pack for each output.



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