



TOKISTAR LIGHTING INSTRUCTION MANUAL

Exhibitor RGB Series

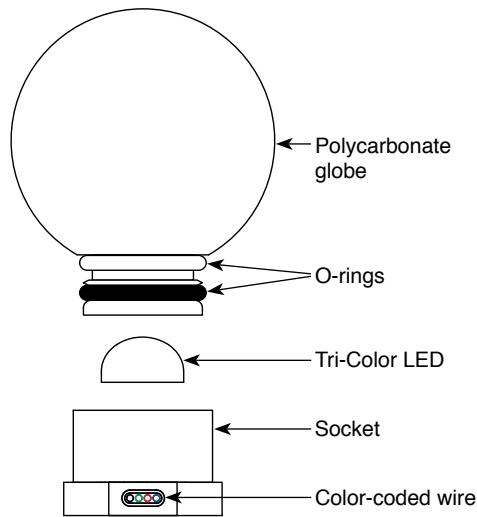
General Description

Tokistar's Exhibitor RGB Series is an 8 VDC lighting system using 0.4 watt Tri-Color LEDs enclosed within polycarbonate globes. Each fixture has Black, Green, Red and Blue color-coded wire and is labeled with wattage and operating voltage.



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	0.4W / 8VDC



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.

TOKISTAR® LIGHTING

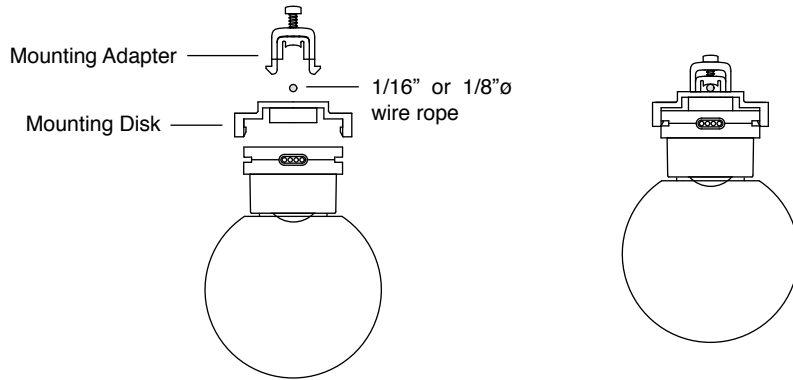
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Option 1 - Mounting Fixtures to Wire Rope

Part#: EX-MDA-BK

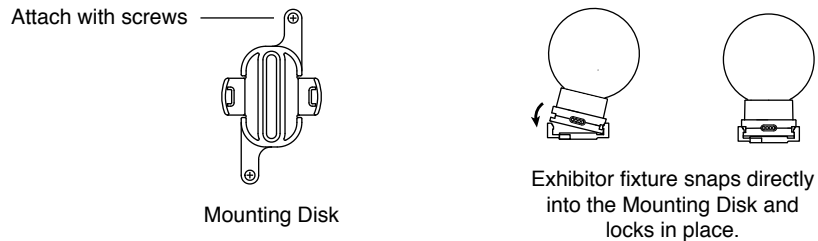
Our wire rope adaptors securely hold each Exhibitor socket in place to 1/16" or 1/8" ϕ wire rope.



Option 2 - Surface Mounting with Disks

Part#: EX-MD-BK

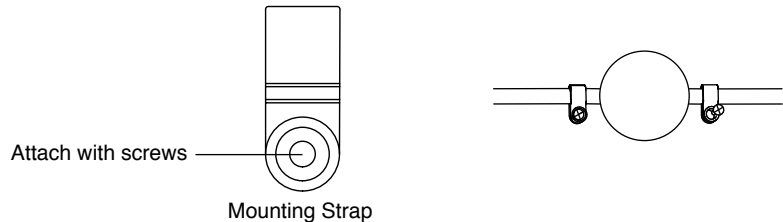
Mounting disks can be screwed in place to a variety of surfaces. Exhibitor sockets may be snapped into the Disks before they are surface mounted.



Option 3 - Surface Mounting with Straps

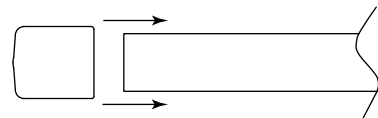
Part#: EX-MS-BK

Mounting straps can also be used to secure fixtures. Two straps are required per socket.



End Caps - ECD-BK

Exhibitor fixtures are supplied with factory sealed end caps on the end of each run. If it is necessary to trim a fixture, a new end cap must be sealed on the end of the conductor cable with a permanently-bonding adhesive such as silicone.



PRECAUTIONS

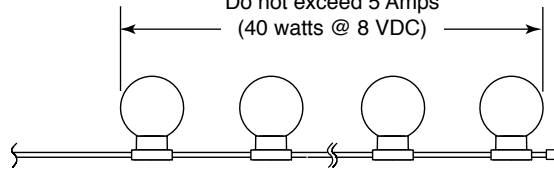
Exhibitor sockets are permanently affixed to the cable. Do Not Modify Socket Spacing. At no time should the system be operated without the globes in place.

Secondary Circuit Wiring

To minimize voltage drop and keep conductors safely within their limitations, do not exceed 100 Exhibitor RGB globes.

Secondary Circuit Limitation

Do not exceed 5 Amps
(40 watts @ 8 VDC)



Recommended Lead Wire Size

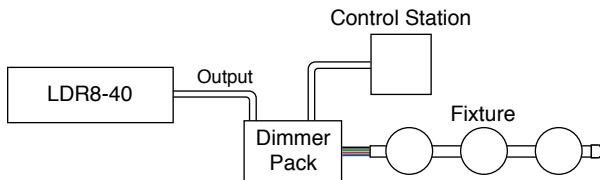
The distance from the LED Driver to the fixture, and the load of the fixture, will determine the proper size of secondary wire. The chart on the right indicates recommended wire size based upon the driver being loaded to its full capacity of 5 Amps/40 Watts.

Secondary Lead Wires	
Wire Size	Wire Length
#16 AWG	12' (3.6 M)
#14 AWG	20' (6.1 M)
#12 AWG	30' (9.1 M)
#10 AWG	45' (13.7 M)

LED Driver Installation

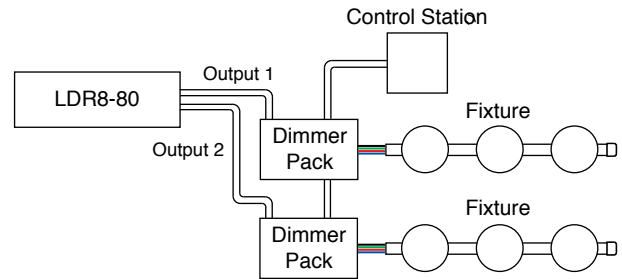
LDR8-40

This 40 Watt Class 2 LED Driver converts an AC input into an 8 VDC output. Refer to the manual provided with the LED Driver for detailed installation instructions. The Nema 3 enclosure is suitable for wet locations.



LDR8-80

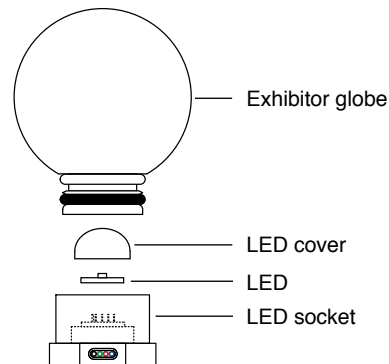
This dual output Class 2 LED Driver has two independent 40 Watt outputs. Refer to the manual provided with the LED Driver for detailed installation instructions. The Nema 3 enclosure is suitable for wet locations.



Part#	Input Volts	Output Volts	Output Ratings	Globe Capacity
LDR8-40	100~240	8VDC	1 @ 5 Amps	100
LDR8-80	100~240	8VDC	2 @ 5 Amps	200

LED Replacement

1. Turn off power to the fixture.
2. Use a twisting motion to remove the Exhibitor globe.
3. Remove the LED Cover.
4. Carefully remove the LED (Do Not Twist).
5. Carefully align the holes on the new LED with prongs inside the socket (Do Not Twist).
6. Securely replace the LED cover.
7. Twist the Exhibitor globe back in place.
8. Turn power back on.



Lighting Controllers

Color Mix System

There are three basic components to the control system. They include the Control Station, Dimmer Packs and LED Drivers.

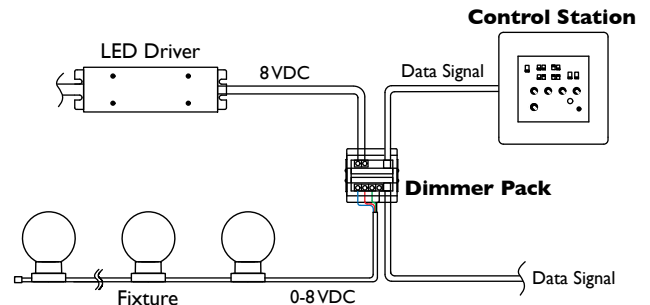
Control Station

The LC-3CH-CM Control Station installs in a double-gang junction box. Power to this unit comes from the LED Driver connected to the first dimmer pack. A 50 foot CAT5 cable is provided.

Dimmer Packs

Dimmer packs are capable of operating up to 100 Exhibitor RGB globes (40 Watts maximum). 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 control station to last dimmer pack.

For further information, refer to the instruction manuals provided with the units.



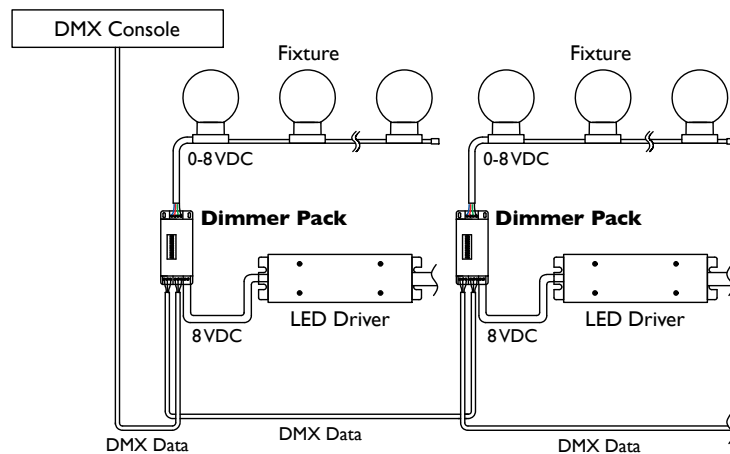
Note: Dual output drivers require a Dimmer Pack for each output.

DMX Dimming System

There are three basic components to a DMX Dimming System. They include the DMX Controller, Dimmer Packs and LED Drivers.

Dimmer Packs

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. Up to 36 Dimmer Packs can be linked together with data cable. Projects exceeding 36 Dimmer Packs require a DMX Splitter Module. Splitters can operate an unlimited number of Dimmer Packs. For further information, refer to the instruction manuals provided with the units.



Note: Dual output drivers require a Dimmer Pack for each output.

⚠ 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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