



# TOKISTAR LIGHTING INSTRUCTION MANUAL

Fixture Type \_\_\_\_ - \_\_\_\_ - \_\_\_\_

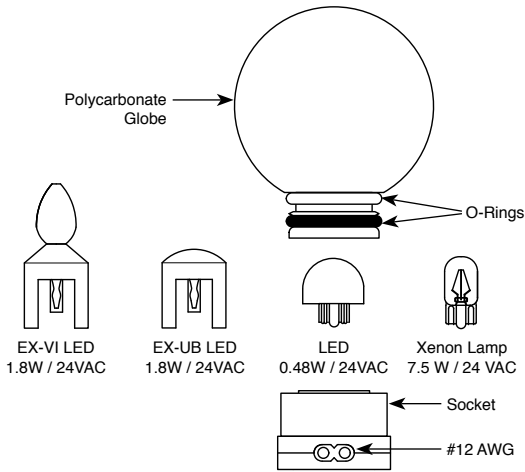
Exhibitor Series

## General Description

Tokistar's Exhibitor Series is a low-voltage lighting system using wedge-base light sources enclosed within polycarbonate globes. Light Sources include 1.8 and 0.48 watt solid-state LEDs, and a 7.5 watt Xenon lamp operating at 24 VAC. Each fixture is labeled with wattage and operating voltage.

### EXBK - 6 - VI - S14 - C

Cable / Socket Color		Socket Spacing		LED			Globe Style		Globe Color	
Code	Color	Code	Inches (mm)	Code	Color	Watts/Volts	Code	Style	Code	Color
<b>BK</b>	Black	<b>6</b>	6" (150 mm)	<b>UBLW</b>	2000K White	1.8 W / 24 VAC	<b>G19</b>	G-19	<b>C</b>	Clear
<b>WH</b>	White	<b>12</b>	12" (300 mm)	<b>UB</b>	2400K White	1.8 W / 24 VAC	<b>G14</b>	G-14	<b>F</b>	Frosted
		<b>18</b>	18" (450 mm)	<b>VILW</b>	2000K White	1.8 W / 24 VAC	<b>S14</b>	S-14	<b>G</b>	Green
		<b>24</b>	24" (600 mm)	<b>VI</b>	2400K White	1.8 W / 24 VAC			<b>A</b>	Amber
			Custom spacing is available.	Virtual Incandescent (VILW & VI) not for use with Frosted Globes					<b>B</b>	Blue
				<b>WW</b>	2500K White	0.48 W / 24 VAC			<b>R</b>	Red
				<b>WH</b>	5500K White	0.48 W / 24 VAC			<b>V</b>	Violet
				<b>BL</b>	Blue	0.48 W / 24 VAC			<b>M</b>	Multi-Color
				<b>GR</b>	Green	0.48 W / 24 VAC				
				<b>OR</b>	Orange	0.48 W / 24 VAC				
				<b>PL</b>	Purple	0.48 W / 24 VAC				
				<b>RD</b>	Red	0.48 W / 24 VAC				
				<b>YG</b>	Yellow-Green	0.48 W / 24 VAC				
				(Any Combination of 0.48 Watt Colors is Possible)						
				<b>Xenon Lamp</b>						
				<b>124</b>	2500K	7.5 W / 24 VAC				
				Xenon lamp not for use with G-14 globes						



## ⚠ 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 transformer on only after all connections have been made and tested.
6. Use only transformers provided by Tokistar with the system.

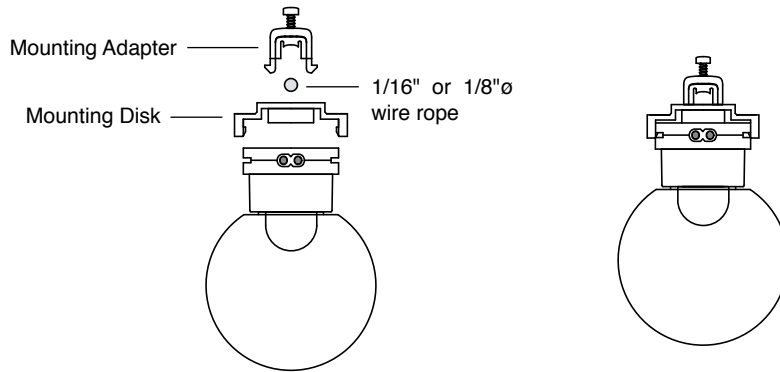
## TOKISTAR® LIGHTING

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## Option 1 - Mounting Fixtures to Wire Rope

**Part#: EX-MDA-WH (White) / EX-MDA-BK (Black)**

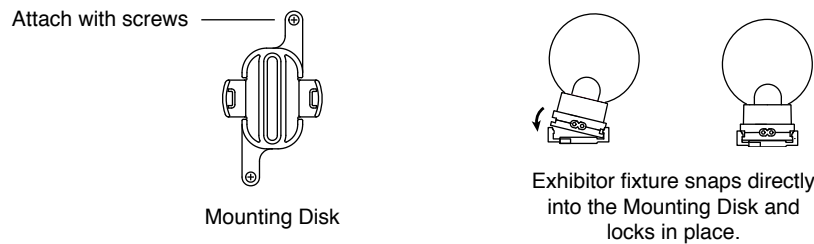
Our wire rope adaptors securely holds each Exhibitor socket in place to 1/16" or 1/8"Ø wire rope.



## Option 2 - Surface Mounting with Disks

**Part#: EX-MD-WH (White) / EX-MD-BK (Black)**

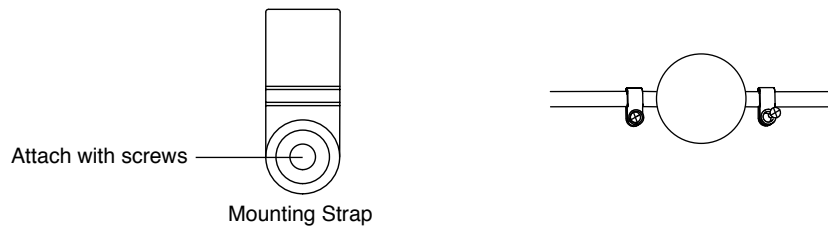
Mounting disks can be screwed in place to a variety of surfaces. Make certain the disks are properly aligned to achieve the desired effect.



## Option 3 - Surface Mounting with Straps

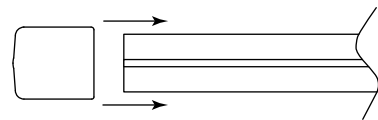
**Part#: EX-MS-WH (White) / EX-MS-BK (Black)**

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



## End Caps - Part#: ECD-WH (White) / ECD-BK (Black)

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.



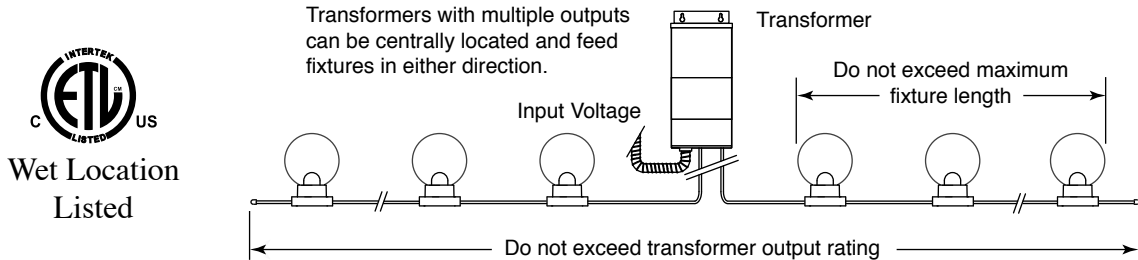
## PRECAUTIONS

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.

**Transformer Instructions**

**Transformer Location**

The maximum recommended distance between the fixture and the transformer varies, based upon the load of each fixture and the size of secondary wire feeding the fixture. It is impossible to give a definitive distance without considering all the variables. Electrical engineers and contractors can calculate these distances. Should you need guidance, consult the factory.



**Secondary Circuit Limitation**

To minimize voltage drop and keep conductors safely within their limitations, do not exceed the maximum lengths shown for each independent fixture. Conforming to these lengths will ensure no fixture exceeds 20 Amps (480 watts @ 24 volts).

Socket Spacing	Maximum Run Lengths		
	LEDs	UB & VI LEDs	Xenon Lamp
0.48 Watt / 24VAC	1.8 Watt / 24VAC	7.5 Watt / 24VAC	
6" (150 mm)	250' (76 M)	125' (38 M)	32' (10 M)
12" (300 mm)	350' (106 M)	200' (60 M)	56' (17 M)
18" (450 mm)	420' (128 M)	225' (68 M)	72' (22 M)
24" (600 mm)	500' (152 M)	250' (76 M)	80' (24 M)

**Secondary Circuit Protection**

Transformers are provided with circuit breakers to protect secondary circuits. The maximum size circuit breaker on a transformer is 25 amps, but the circuit wired to the breaker **MUST NOT EXCEED 20 AMPS**.

There are several transformer sizes available, and different size breakers installed in them. For applications with multiple output transformers the total load should not exceed the breakers rating, and the total combined load of all outputs should not exceed the transformers rating.

**⚠ PRECAUTIONS**

Transformers should be installed in an accessible location. Magnetic transformers generate heat and must be installed in locations where there is free-air circulation.

For additional information, please refer to the instruction manual provided with your transformer.

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