

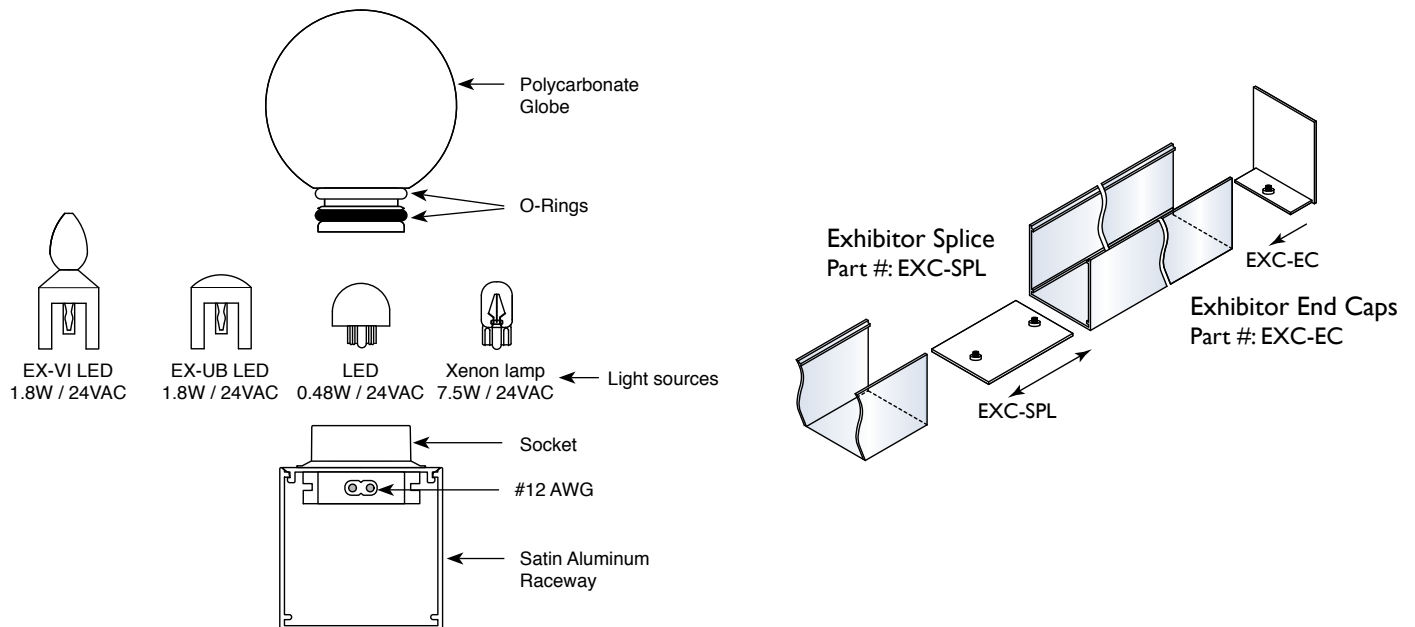


# TOKISTAR LIGHTING INSTRUCTION MANUAL

## EXC Series Manual

### General Description

EXC Series incorporates our Exhibitor Series into a 2" x 2" satin aluminum raceway for use in all environments. 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.



### Mounting Fixtures

**Step 1** - Determine the entry point of wires feeding the fixture (on the back or sides of extrusion base, or from end caps). Drill or punch appropriate size hole to accommodate the conduit fitting used.

**Step 2** - Mount extrusion base to the surface securely with screws, adding splices between adjoining bases, and End Caps to the ends of the fixture runs.

**Step 3** - Check output from transformer to ensure it is 24 volts.

**Step 4** - Turn circuit to transformer off, and connect secondary wires from transformer to the fixture cover assembly.

**Step 5** - Snap cover assembly in place.

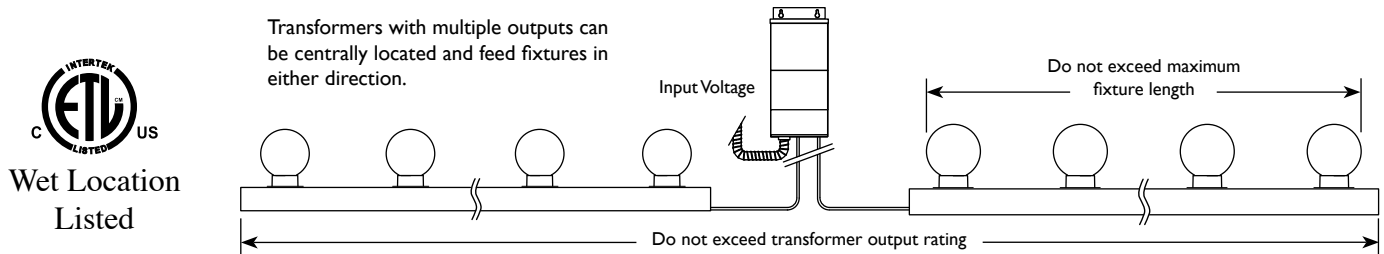
### ⚠ PRECAUTIONS

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.
7. 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.



Wet Location Listed

### 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
6" (150 mm)	0.48 Watt / 24VAC	1.8 Watt / 24VAC	7.5 Watt / 24VAC
12" (300 mm)	250' (76 M)	125' (38 M)	32' (10 M)
18" (450 mm)	350' (106 M)	200' (60 M)	56' (17 M)
	420' (128 M)	225' (68 M)	72' (22 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.

## TOKISTAR® LIGHTING

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