

# ELECTRONIC BALLAST INSTALLATION INSTRUCTIONS



## IMPORTANT:

Read carefully before installing. All work should be performed by a qualified Electrician. These instructions may not provide directions to cover every variation and detail. To obtain additional information, consult us directly for assistance before attempting anything with uncertainty. Improper installation and/or utilization may void manufacturer's warranty. This fixture must be well grounded. Failure to do so may result in serious personal injury. HID luminaires should be operated on grounded systems only.

Ungrounded power distribution systems may carry high transient voltages which can cause failure of any type electrical equipment. Use of LeuchTek equipment on ungrounded systems will VOID THE WARRANTY.

## GENERAL:

Upon receipt, inspect for any freight damage, which should be brought to the attention of the delivering carrier. See "Damage and Shortage Claims" for proper steps in filing claims with the carrier. Compare the catalog description listed on the packing slip with the label on the carton to assure you have received the correct material.



## ! IMPORTANT SAFEGUARDS !

1. To reduce the risk of electric shock, disconnect power supplies of ballast before servicing.
2. This product is for use in indoor fixtures except air handling heated air outlets, and wet, damp, or hazardous location fixtures. Do not install near explosive gas.
3. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
4. Do not use this product for other than intended use.



230V ballast



120V ballast



INDOOR USE ONLY

# CAUTIONS



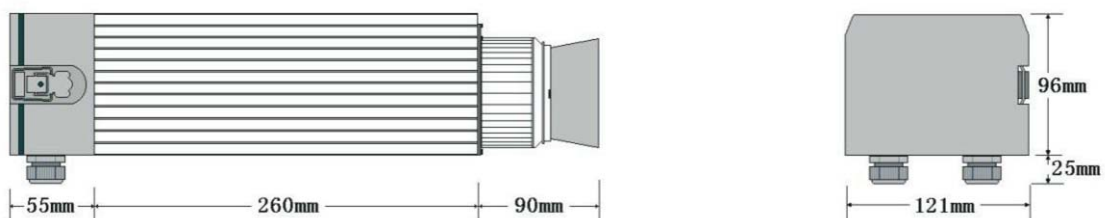
1. Check labels on the ballast to make sure it is of the correct voltage, lamp type, wattage, and current, etc. The lamp must conform to the ballast output.
2. The ballast needs five to ten minutes warm-up time before its voltage and current reach a stable condition.
3. After switch-off, do not restart it immediately. It must wait at least 5 minutes before next restart. Do not switch on/off frequently. Otherwise both the lifetime of ballast and lamp will be shorten or damaged immediately.
4. The groundline shall  $\geq 1.5\text{mm}^2$  and the ground resistance shall be less than 0.5 Ohm. Make sure the cross-section area of all wires are sufficient enough.
5. Some traditional HPS bulbs are not suitable for high-frequency electronic ballasts. So far we recommend you to use GE bulbs with our ballasts. If you use other brands, please consult us in advance.

## General Specification

Type	Power	Current	Frequency	cos $\phi$	THD	Lamp Holder
LT-600-23	600W, 230V	2.76A $\pm$ 5%	50Hz $\pm$ 1%	$\geq 0.99$	<10%	E40
LT-400-23	400W, 230V	1.85A $\pm$ 5%	50Hz $\pm$ 1%	$\geq 0.99$	<10%	E40
LT-600-12	600W, 120V	5.40A $\pm$ 5%	60Hz $\pm$ 1%	$\geq 0.98$	<10%	E40
LT-400-12	400W, 120V	3.60A $\pm$ 5%	60Hz $\pm$ 1%	$\geq 0.98$	<10%	E40

Per customer's requests, all above types can be delivered with dimming function. The lamp holder can be integrated with ballast body or separately.

## Dimension



### **WARNING:**

The designs of control circuit, shape, reflector and connectors are protected by 5 patents all over the world. Do not infringe!

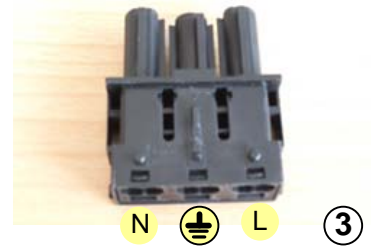
# INSTALLATION ILLUSTRATION



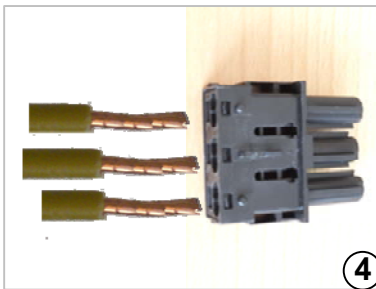
Release the lock



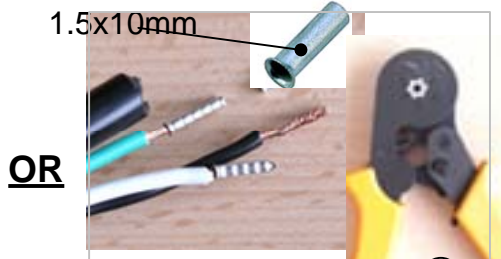
Open the box



Get the plug and wire it



if hard cable,  
direct insertion



**OR**

if soft cable,  
attach hulls by cold-press tool  
before insertion



**OR**

if soft cable,  
reinforce the hardness by  
solder before insertion



Plug in after wired



Close the box



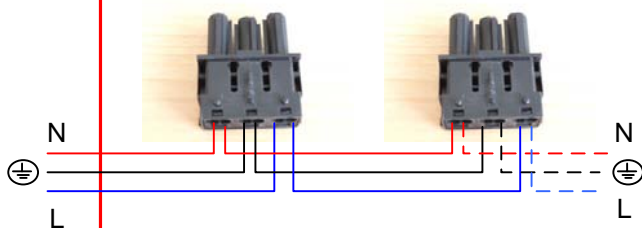
Screw to close the wire gap

## single case



The allowed number of connecting ballasts depends on the wire, e.g. for 2.5mm<sup>2</sup> wires should not exceed five ballasts

**Do not exceed the rated current of wires**



## Multiple case



## Install hanging accessories



take the hanging accessories



take one screw and insert to the slot in ballast body

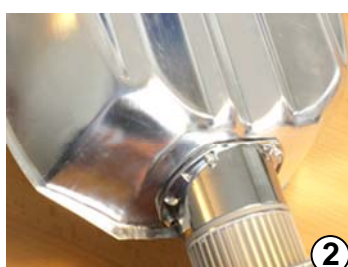


Designed for Easy

## Install reflector



Reflector can be installed like screw



Tilt the reflector with 45 degree and insert with ballast head



Carefully screw and fix the reflector

\* The reflector can be easily removed with a unscrew action