BRUCK LIGHTING SYSTEMS
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For more assistance with technical questions please call our technical support staff at (714) 259-9959. You can also contact us by email at info@brucklightingsystems.com.

BRUCK.

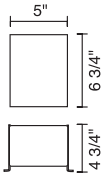
INSTALLATION AND WIRING DIAGRAM

USA

ORION SERIES

LED TRANSFORMER

ART. NO. 70424 100W, 120V



IMPORTANT SAFETY INSTRUCTIONS

1. THIS PRODUCT MUST BE INSTALLED BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED, IN ACCORDANCE WITH THE LOCAL AND NATIONAL CODE.
2. Turn off power prior to any work on the systems.
3. Warranty is void in case of unauthorized modifications and/ or improper use.

READ ALL OF THESE INSTALLATION INSTRUCTIONS BEFORE INSTALLING THE FIXTURE

All ***SEBCO*** Low Voltage Lighting Transformers meet the requirements of Article 411 of the National Electric Code. They are listed by *Intertek Testing Services, (ETL)* to U.L. 1598, U.L. 1838, and/or U.L. 2108. ***SEBCO*** Transformers may also include ***SEBCO'S*** Low Voltage Distribution System which limits the secondary outputs to Class 2 limits as stated in N.E.C. Article 725.

1) Shipment Damage:

If the transformer has been damaged during shipment, file a claim immediately with the transportation company. ***SEBCO*** **is not responsible for damage during shipping.**

2) Precautions Before Installing:

Check the label to be sure the transformer is the right voltage & wattage for the job. To figure your total load, add up the wattage of all bulbs to be lit. To allow for voltage drop and unknown resistance, it is usually recommended to size up the transformer by 20%. Check the wire markings and be sure they match the enclosed wiring diagram or instruction sheet. Permanent installations must use 90°C rated wire on primary connections.

3) Installation:

The transformer is to be installed in accordance with Article 450 of the National Electric Code. The transformer must be installed in a well ventilated area free from explosive gases and vapors. Proper operation requires the free flow of air. Transformer must be mounted vertically, with the circuit breakers at the bottom of the unit. Failure to install properly could cause overheating and unnecessary tripping by the circuit breakers. If mounted against a wall, provide sufficient clearance for free flow of air to provide adequate cooling & to eliminate fire hazard. **This unit is not to be used withing 10 feet of a pool or spa.**

4) Protection:

The transformer must not be subjected to high voltage transients caused by lightning, switching surges or other sources unless it is protected by lightning arrestors & surge suppressors. The transformer must be grounded in accordance with the N.E.C.

5) Connection:

Remove the bottom access plate on the transformer and connect only the primary. Be sure that any unused leads are insulated. Energize the unit and check the secondary voltage to be sure that it is right for the load. If the unit is cord connected, installer shall not use an extension cord. In addition, cord connected outdoor power units shall be connected to a GFCI protected hooded flush type cover plate receptacle marked "Wet Location" while in use. Turn off the primary power and connect the secondary load using the circuit breaker(s) already installed. If the unit is being used for outdoor landscape lighting, the secondary wiring is intended for shallow burial, less than 6", unless the lighting manufacturer has provided wiring intended for direct burial. Install the bottom plate and energize the transformer with the load connected. No single run may exceed 300 watts or the maximum rating of the power unit, whichever is less.

6) Maintenance:

De-energize the unit before removing the bottom access plate. Check all connections for signs of looseness and deterioration and tighten, insulate or replace where necessary. Blow out dust and remove any foreign objects annually. Replace the bottom access cover before energizing.

REMEMBER, THIS IS AN AIR COOLED TRANSFORMER AND MUST HAVE UNRESTRICTED AIR FLOW FOR PROPER OPERATION.