Installation Instructions for

12V Dual Feed Remote Magnetic Transformer

800AT600_ 1.8

tiella™
REMOTE TRANSFORMERS

GENERAL PRODUCT INFORMATION:

This product is ETL listed and suitable only for indoor dry locations and approved for use at any height above the finished floor.

A typical installation is shown. Specific installation must be in accordance with the local electrical codes.

This product is suitable for dry locations only.

This product may be dimmed only with a low voltage magnetic dimmer. Using a dimmer not designed for low voltage magnetic applications may work initially, but will eventually cause transformer failure and will void the warranty. The dimmer must be derated as indicated by the dimmer manufacturer.

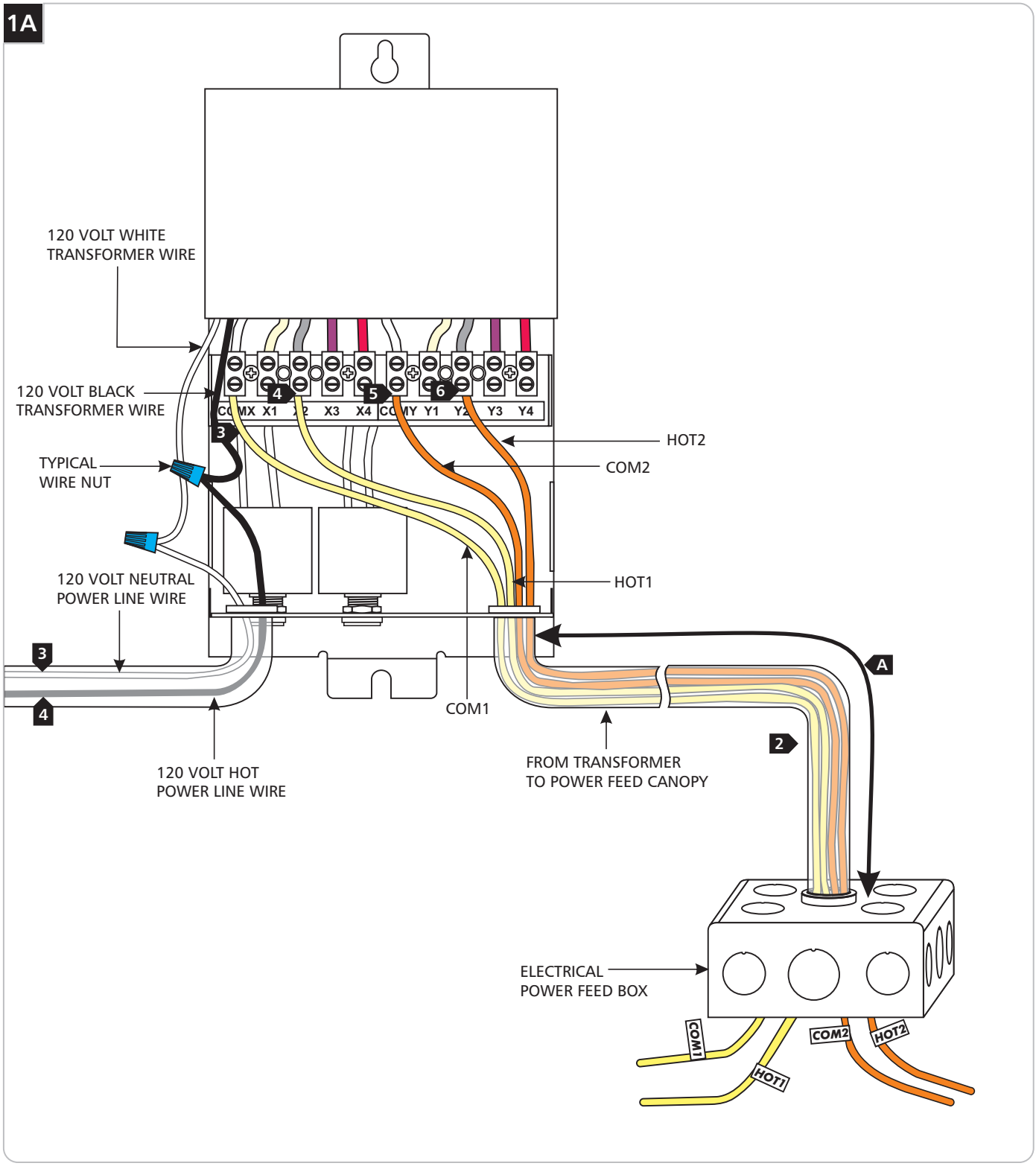
This product is intended for use with tiella low voltage lighting systems only.

During installation, make sure all power connections are tight.

Read all instructions thoroughly. Read "Important Safety Information" on page 4 before proceeding with the installation.

CAUTION—RISK OF FIRE

This product requires installation by a qualified electrician. Before installing be sure to read all instructions and TURN THE POWER TO THE ELECTRICAL BOX OFF.


1A
120 VOLT WHITE
TRANSFORMER WIRE
120 VOLT BLACK
TRANSFORMER WIRE
TYPICAL
WIRE NUT
120 VOLT NEUTRAL
POWER LINE WIRE
120 VOLT HOT
POWER LINE WIRE
COM1
HOT2
COM2
HOT1
FROM TRANSFORMER
TO POWER FEED CANOPY
ELECTRICAL
POWER FEED BOX
X1
X3
X4
Y1
Y3
Y4
3
4
5
6
A
2
COM1
HOT1
COM2
HOT2

Connect the 12 Volt Low Voltage Wires

1. Remove transformer cover by loosening the two Phillips screws on the side of the transformer.

2. Install low voltage wires from the transformer to the electrical power feed box to which the power feed canopy will be attached. For best performance, use the wire size from the "Low Voltage Wire Size Table".

NOTE: Other wire sizes that comply with electrical code can be used, but may result in an increased voltage drop and reduced lamp intensity.

NOTE: The THHN wire sizes are for 3% drop in voltage based on 300 watt loads. Lengths are the distance from the transformer to the system power feed connector (Dimension A).

LOW VOLTAGE WIRE SIZE TABLE

TRANSFORMER WATTAGE	WIRE SIZE FOR 5 FT	WIRE SIZE FOR 6-15 FT	WIRE SIZE FOR 16-20 FT	WIRE SIZE FOR 21-40 FT	WIRE SIZE FOR 40-60 FT	WIRE SIZE FOR 61-90 FT
300 WATT	#10 GA	#6 GA	#4 GA	#1 GA	#1/0 GA	#3/0 GA

3. Insert one low voltage wire into the "COMX" terminal and tighten the screw firmly. Mark this low voltage wire in the electrical power feed box as "COM1".

4. Insert the second low voltage wire into the "X2" terminal tap (default) and tighten the screw firmly. Mark this low voltage wire in the electrical power feed box as "HOT1".

5. Insert the third low voltage wire into "COMY" terminal and tighten the screw firmly. Mark this low voltage wire in the electrical power feed box as "COM2".

6. Insert the fourth low voltage wire into the "Y2" terminal tap (default) and tighten the screw firmly. Mark this low voltage wire in the electrical power feed box as "HOT2".

7. Measure the voltage at the primary power line coming into the transformer. If the voltage is not in the range of 115 - 120 volt, then pick the proper terminal tap using the "Terminal Tap TABLE" to reconnect the second and fourth low voltage wires.

TERMINAL TAP TABLE

PRIMARY POWER LINE VOLTAGE	TERMINAL TAP TO BE USED	TERMINAL TAP TO BE USED
105 - 109	X4	Y4
110 - 114	X3	Y3
115 - 120	X2	Y2
121 - 125	X1	Y1

Connect the 120 Volt Wires

1. Turn off the electrical power at panel.

2. Connect the 120V black transformer wire to the hot power line wire with a wire nut.

3. Connect the 120V white transformer wire to the neutral power line wire with a wire nut.

4. Turn on the electrical power at panel.

Check The System

1. After installing the entire low voltage system, if the lamps have low intensity, then measure the voltage at the fixture closest to the power feed contacts with a voltmeter. The system must be at least 80% loaded and the voltmeter should read between 11V - 12V ~AC. If the voltage does not fall in this range, call tiella "Technical Support" at 847-410-4606.

2. Operate the system for five minutes. On the low voltage side, all electrical connection spots should be cool to the touch. If a connection is hot to the touch, retighten the connection and check to ensure that the temperature decreases.

3. Replace the transformer cover and tighten the two Phillips screws on the sides of the transformer.

Important Safety Information

Do not conceal or extend bus bar conductors through a building wall.

Do not install this lighting system in a damp or wet location.

To reduce the risk of fire and burns, do not install this lighting system where the uninsulated open bus bar conductors can be shorted or contact any conductive materials.

To reduce the risk of the system overheating and possibly causing a fire, make sure all the connections are tight.

Do not install fixture assemblies closer than six inches to curtains or similarly combustible materials.

Turn the electrical power off before modifying the lighting system in any way.

The fixtures used with the system must be identified to be used with the corresponding system.

Minimum volume of the electrical box must be 6 cubic inches (98 cubic centimeter).

The system is "ETL" listed for USA and Canada only when all the products used are supplied by tiella.

It is important to wire the remote transformer for the system as described in these instructions.

Load the circuit of the remote transformers to no more than the maximum rated capacity as specified.

SAVE THESE INSTRUCTIONS!

tiella™
real light, real simple

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