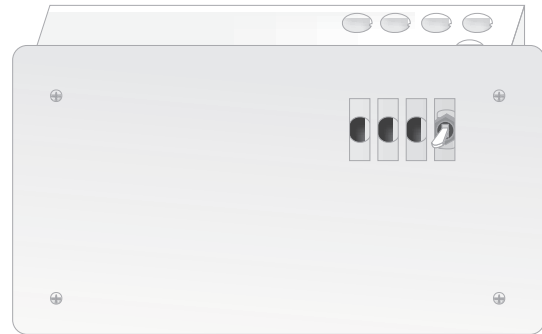


12V Single Feed Recessed Magnetic Transformer**700AT300TR**

1.8

**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.

This product may require some modification (remodeling) to existing wall where the transformer is to be mounted. The wall studs should be 16" apart.

A typical installation is shown. Specific installation must be in accordance with 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 Tech Lighting low voltage lighting systems only.

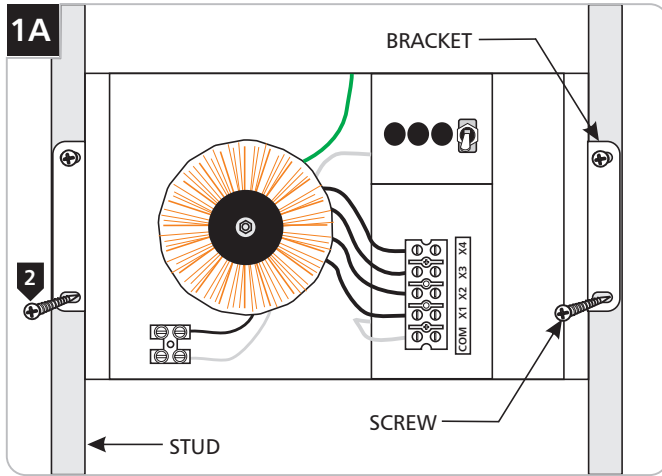
During installation, make sure all power connections are tight.

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.**

Install the Transformer

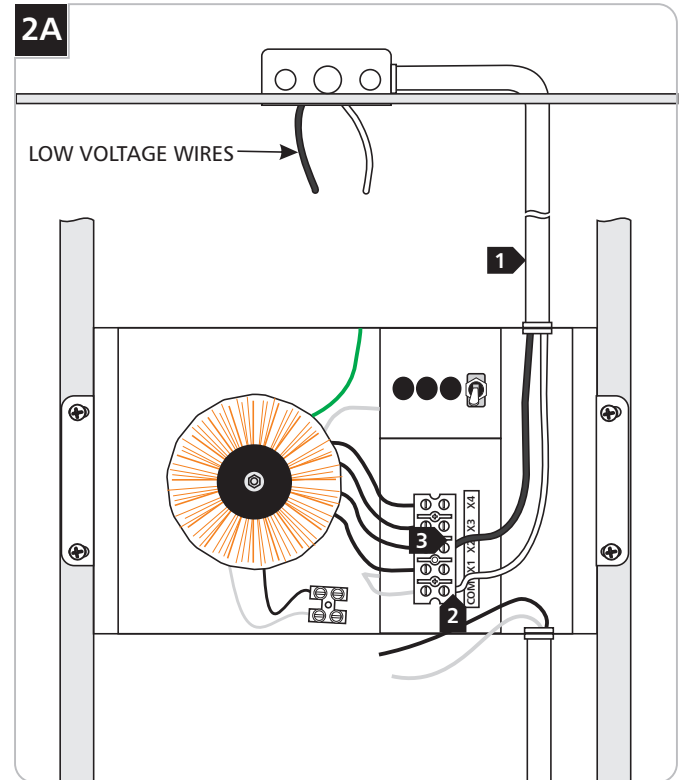


- 1 Select the location between the studs (16" apart) where the transformer is to be mounted.
- 2 Place the transformer between the studs and fasten it to the studs through the bracket holes with four #8 or #10 screws (not provided).

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

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

Connect the 12 Volt Low Voltage Wires



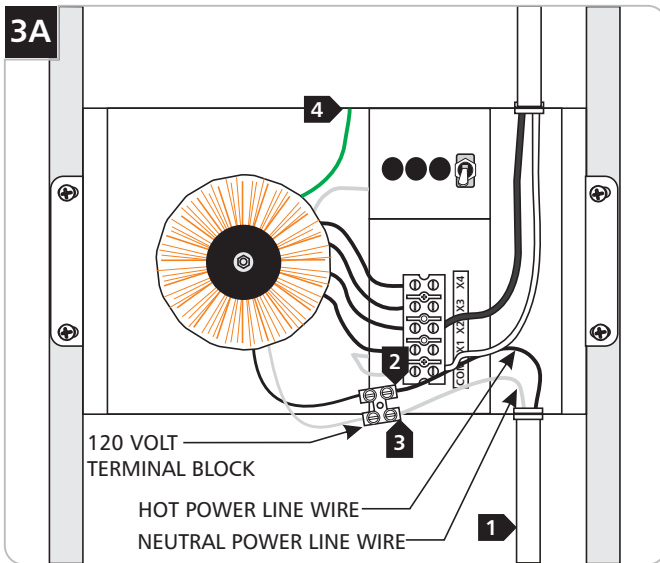
- 1 Install two low voltage wires from the transformer to the electrical power feed box to which the power feed canopy will be attached. Run the proper size wire using the low voltage wire size table.

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.

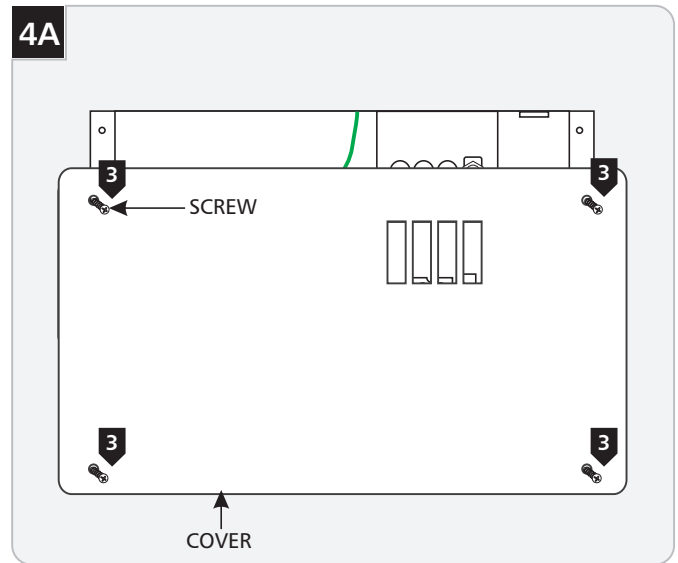
- 2 Insert one low voltage wire into the secondary terminal marked "COM" and tighten the screw firmly.
- 3 Insert the second low voltage wire to the "X2" tap terminal (default) and tighten the screw firmly.
- 4 Measure the voltage at the primary power line coming into the transformer. If the voltage is not in the range of 115 - 120 volt, then pick the proper terminal tap using the "Terminal Tap Table" to reconnect the second low voltage wire.
- 5 Install drywall.

Connect the 120 Volt Wires



- 1 Install the 120 volt power line wires to the transformer.
- 2 Insert the hot power line wire inline with the black transformer wire into the terminal block and tighten the screw.
- 3 Insert the neutral power line wire inline with the white transformer wire into the terminal block and tighten the screw.
- 4 Ground the transformer housing in accordance with local electrical codes.

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 Tech Lighting "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 Place the transformer cover and tighten all four provided Phillips screws on the front.

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 Tech Lighting.

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!



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