

INSTALLATION NOTES

SAVE THESE INSTRUCTIONS

We have developed this series of field installation guidelines to assist you in correctly installing fixtures and transformers ensuring customer satisfaction and trouble free service. If you have any questions please call your local distributor or the FX Techline at **800-688-1269** before proceeding. Follow all NEC guidelines and local electrical codes.

For further info, see our website: www.FXL.com

LM: LouverMassimo

FX
LUMINAIRE

Wall Mount

INSTALL FX LUMINAIRE LOUVER MASSIMO IN ANY HORIZONTAL MOUNTING APPLICATION WITH SUPPLIED HARDWARE.

THE FX LUMINAIRE LOUVER MASSIMO INCORPORATES A LEVEL ADJUSTING FACEPLATE. TWO 10 WATT MAXIMUM LAMP

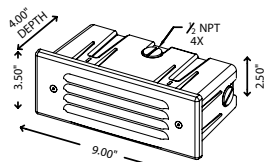
BLUE OR GRAY ENT CONDUIT WITH STRANDED THHN WIRE SIZED TO MATCH WATTAGE LOAD

IF WALL IS STUCCOED OR COATED USE THE "REUSABLE CONSTRUCTION COVER" TO KEEP CAVITY CLEAN AND CLEAR OF DEBRIS

SECTION/ELEVATION

THIS FIXTURE IS DESIGNED FOR DOWN LIGHTING ONLY. DO NOT USE IN UP LIGHT POSITION.

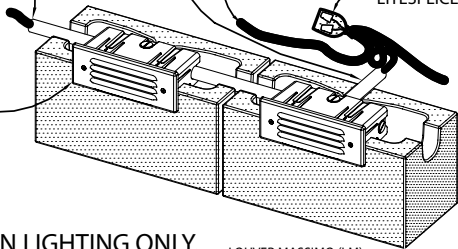
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WATERPROOF SLEEVE END TO PREVENT WATER FROM SEEPING THROUGH THE WALL AND INTO THE LAMP HOUSING. LEAVE 18" SERVICE LOOP COILED INSIDE THE SLEEVE

12 GA MAIN LINE CABLE

LITESPLICE



LOUVER MASSIMO (LM)
FX LUMINAIRE CONCRETE
OR BLOCK WALLMOUNT
SCALE: NOT TO SCALE

For a complete listing of installation details go to www.fxl.com/learning/installation_notes.htm

RISK OF FIRE WARNING:

DO NOT USE FX FIXTURES WITH ANY STYLE OF TRANSFORMER THAT EXCEEDS 14 VOLTS ON THE SECONDARY.

Why use the LiteSplice?

Without a waterproof splice connection any system will develop voltage loss and low grade shorts making your lighting professional life hell. Below is our proven method of insuring you and your client years of trouble free high performance from the FX System.

FX Does NOT recommend the use of Quick Clip style connectors or Pre-filled wirenuts because they are not waterproof and will rot out creating resistance and shorts. A little more time spent during installation is repaid handsomely in reduced service calls.

Step 1

Begin with a 12, 10 or 8 gauge direct burial low voltage cable mainline. (Use stranded 12 gauge THHN (120v style) wire for conduit runs such as wall lights or trellis lights).



Step 2

Cut the mainline cable in half and strip back 3/4" of the insulation from each side to expose the multi-stranded copper conductor.



Step 3

Join one of the fixture's conductors to each side of the mainline as shown in the diagram. Since there is no polarity in low voltage, it doesn't matter which side is which when joining the conductors together. Install a wirenut on each side. Now is the time to test the individual circuits (cables) for voltage drop. If you were a good boy and followed the Circuiting Guidelines included with the FX MultiTap Transformer you should be able to provide each fixture with between 10.5 - 11.5 volts with all lamps installed and operating. Test now before you install the SpliceGel because it's easier to stick the VoltMeter's probes inside the wirenuts to get a reading.

Step 4

Pump about two squeezes of SpliceGel into the baggie and insert both wirenut connections into it. Push out the air and work the Gel into the bottom of the wirenut assuring a waterproof connection. Install the cable tie as shown and cinch down to complete the most cost effective permanent waterproof low voltage connection known to man. The Gel will set-up rock hard in about 3 days. It's best to leave 12-18" of slack at each fixture to allow for relocation or if you need to splice in additional cables in the future. Since this is a permanent splice solution — you will need to cut it off and start from scratch to add cables to the splice.

Step 3



Step 4



Installation Guidelines:

DO NOT EXCEED 10 WATTS IN THIS FIXTURE

Mount fixture in a level position only. Do not use as an uplight.

Do not use in step riser.

On stairways, best effect is achieved when the LM is installed in an adjacent wall perpendicular to view. Install at least one LM for every three steps on stairways. On wide steps mount on opposing walls to cross over. Center of fixture must be mounted above highest step being illuminated. On landings mount on wall facing uphill steps. For maximum beam projection and minimum glare fixture should be located about 12" off finished grade.

Unique lamp mount is adjustable both vertically and horizontally to allow installer to focus center beam short and steep or long and low. Combining this adjustability with the 3 available beam spreads (broad, narrow and very narrow), makes this a very versatile wall light. Light projection isn't contingent on mounted height.

DON'T OVERTIGHTEN!

To relamp LouverMassimo remove copper trim and lamp and carefully insert new one. Do not touch the actual lamp bud with fingers as this will shorten lamp life. If you do touch the lamp bud clean off with cloth and alcohol. For high performance and predictable lamp life, supply fixture with between 11-11.5 volts with all lamps installed and operating. Use FX LUMINAIRE Transformers only — FX WILL NOT WARRANTY OR REPLACE ANY COMPONENTS DAMAGED BY OTHER MANUFACTURER'S EQUIPMENT. The FX transformer is specifically designed for the high tech lamps used in our fixtures — the use of inferior power supplies can cause premature lamp failure and other problems including the risk of fire. **Do not exceed 12 volts at lamp.**

SYSTEM LAYOUT

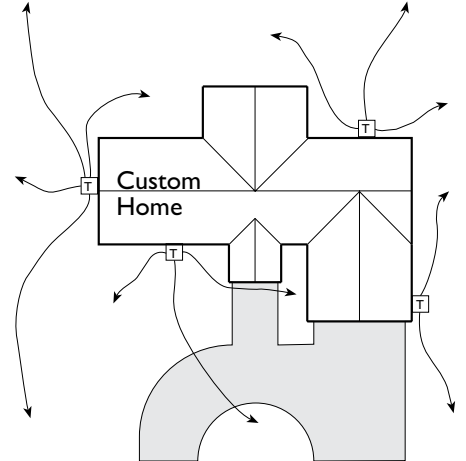
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Single Transformer:

When using only one transformer, it is very important to center the transformer on the wattage load. If the project calls for 135 watts in both front and back yard, the PX-300 or PX-600 should be centered on the side of the house that will receive the most lighting. A common mistake is to locate the single transformer on the service side of the house or in the garage, which might result in excessively long cable runs to reach lighted areas. The primary goal in laying out low voltage systems is to minimize cable runs because of the negative effect voltage drop has on lamp output performance.

Multiple Transformers:

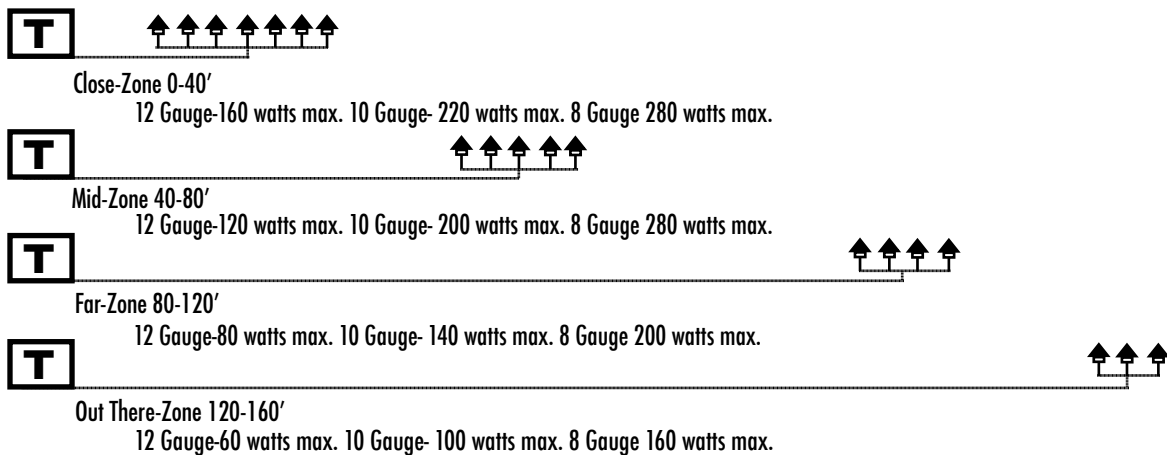
A common mistake in laying out multiple transformer circuits is to group several transformers in one location because of utility or visual considerations only. As with any low voltage layout, the prime directive should be to locate the transformers as close to the fixtures as possible in order to minimize cable runs and resulting voltage drop. The other multi-transformer layout consideration is "use zoning". Having several transformers allows the client to selectively control light in separate areas. This approach is similar to irrigation design in that the goal is to individually control control areas that have similar needs. In lighting, a recreation area has different lighting needs than does a front entry. Therefore, the lights that serve these different lighting use areas need to be on separate transformers and switch controls.



Sample diagram of home with transformer and lamp placement

Circuiting Guidelines:

Loads PER CABLE
Add cable runs as necessary



Lamp Life:

- Lamp life is rated in hours of operation. If lamps are rated for 4000 hours at 12 volts it means that at 4000 hours, 50% of the lamps are still work ing and 50% are not.
- For maximum light output, tune lighting circuits to provide between 11.5 and 12.0 volts as measured at lamp terminals when all of the lamps on the circuit are operating.
- For longer lamp life, adjust voltage down so lamps receive between 10.5 and 11.5 volts at the lamp terminals.
- Voltage can be regulated by adjusting circuit load/run by using FX Po tenxaX Transformers.
- To determine circuit voltage, use FX Digital Voltmeter.

Volts at Lamp	Lamp Life of Rate	Lumen Output of Rated
13.0*	50%	350%
12.5*	75%	175%
12.0	100%	100%
11.5	200%	80%
11.0	300%	75%
10.5	500%	65%
10.0	900%	50%

*This voltage is not recommended