

INSTALLATION INSTRUCTIONS

PZM-TLHCOB-PXL Series

**⚠ WARNING**

These products may represent a possible shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with these instructions, current electrical codes, and/or the current National Electric Code (NEC).

⚠ WARNING

Use only with drivers with a wattage capacity that can handle the total load. Factory warranty will be void if used with a non-recommended power supply, transformer, or driver.

⚠ WARNING

To reduce the risk of fire, electric shock or injury to persons, make sure that the electrical power to the system is disconnected at the source prior to installation or any servicing.

⚠ WARNING

Never fold Trulux® or bend past the minimum bending radius of 1" whether lighted or unlighted.

SAFETY INFORMATION

- Read all installation instructions before beginning; if not qualified, do not attempt installation. Contact a qualified electrician.
- To reduce the risk of fire, electric shock, or injury to persons, pay close attention to this manual and stay within its guidelines when using this product. Save these instructions for future use.
- Do not cover this product with paper surface coverings, fabrics, streamers, or other similar combustible materials.
- Do not operate Trulux on the reel, nor while it is coiled.
- This IP54 rated tape light is suitable for indoor use in dry and damp locations only; Not for direct contact with water or moisture. Do not submerge flexible light in liquids, or use the product in the vicinity of standing water or other liquids, or where water can accumulate.
- Do not route the cord or tape light through walls, ceilings, doors, windows, or any similar part of the building structure.
- Secure tape light using only the adhesive provided with the tape and/or factory recommended mounting clips, mounting track, and aluminum channel (sold separately).
- Do not secure this product or its cord with staples, nails, or like means that may damage the outer jacket or cord insulation.
- Do not use if there is any damage to the tape light, diodes or power cord insulation; inspect periodically.
- Do not install on gates or doors, or where subject to continuous flexing.
- Do not install in airtight tanks or enclosures of any kinds.
- Size your driver appropriately for your run distance. Be sure not to load a driver to 100% as this will reduce its efficiency; a 90% maximum load is recommended.

LAYOUT CONSIDERATIONS:

Pay close attention to the following tape light maximum run lengths. Use only appropriately sized driver..

Tape Light Series	Wattage	Reel Length	Cuttability	Max. Run	Resolution
PZM-TLHCOB-54-24V-PXL30K-16	3W/ft	16.4 feet (5m)	Every 3.94in	16.4 feet (5m)	1.31in (3 address per cut increment)
PZM-TLHCOB-54-24V-PXLRGBW-16	4.87W/ft	16.4 feet (5m)	Every 3.94in	16.4 feet (5m)	3.94in (4 address per cut increment)

PRODUCT INFORMATION

IP54 reels include attached 6ft lead wires as well as 3ft tail wires (on Data and Ground only).

Mount tape light using the adhesive backing. Once the protective backing is removed, the tape should be placed on the prepared mounting surface and not be repositioned, removed, or re-used. For best results, let adhesive cure 24 hours prior to first use

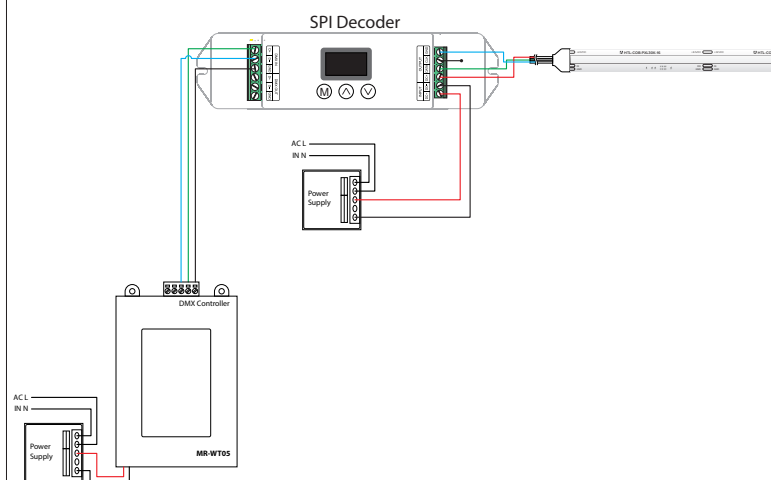
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PZM-TLHCOB-PXL Series

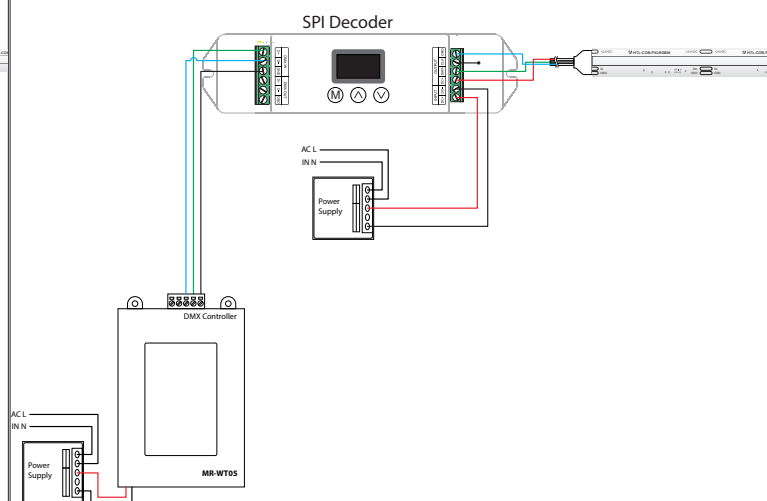
**INSTALLING TAPE LIGHT:**

Disconnect power from source prior to attempting installation. Make all connections and mount in place prior to providing power to system. Tape Light includes an adhesive backing: Allow adhesive to cure 24 hours prior to first use. This product is designed to be mounted to a smooth, clean, non-moving surface.

1. Determine the placement of tape light and whether there will be cuts, splices, or jumpers needed. Make any cuts, splices, or jumps prior to moving on to Step 2. See CUTTING TAPE LIGHT below for more information on cutting Tape Light. Consider the placement of the power supply and ensure there is no tension from start of tape light to power supply.
2. Peel the protective backing from the tape light and press the tape light into place. For best results, once the VHB protective sheet is removed, the tape should not be repositioned, removed, or re-used.
3. Connect the beginning of the tape light to an appropriate DMX controller, ensuring to match each wire to the appropriate terminal. See Figures 1 and 2.
4. Wire the controller to an appropriate LED driver, ensuring to match polarity. See Figures 1 and 2.
5. Bring power to the power supply, ensuring to match polarity. See Figures 1 and 2.

FIGURE 1 PZM-TLHCOB-54-24V-PXL30K-16

1. "+24V" (Red) wire of the LED strip, is connected to the Output 24V+ of the SPI Decoder
2. Data (Green) wire of the LED strip is connected to the Data Output of the SPI Decoder
3. White (GND) wire of the LED strip is connected to the GND Output of the SPI Decoder
4. "+24V" (Red) wire of the power supply is connected to the 24V Input of the SPI Decoder
5. Common (Black) wire of the power supply is connected to the GND Input of the SPI Decoder
6. Wire DMX Input to SPI Decoder from DMX Controller per DMX Controller instructions
7. Set SPI Protocol to UCS1903 or WS2811 on the SPI Decoder

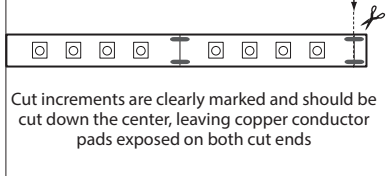
FIGURE 2 PZM-TLHCOB-54-24V-PXLRGBW-16

1. "+24V" (Red) wire of the LED strip, is connected to the Output 24V+ of the SPI Decoder
2. Data (Green) wire of the LED strip is connected to the Data Output of the SPI Decoder
3. White (GND) wire of the LED strip is connected to the GND Output of the SPI Decoder
4. "+24V" (Red) wire of the power supply is connected to the 24V Input of the SPI Decoder
5. Common (Black) wire of the power supply is connected to the GND Input of the SPI Decoder
6. Wire DMX Input to SPI Decoder from DMX Controller per DMX Controller instructions
7. Set SPI Protocol to WS2814 on the SPI Decoder

CUTTING TAPE LIGHT (SEE FIGURE 3):

Do not exceed the maximum tape light run length of 16.4 feet in any single run. Use only appropriately sized power supply.

Cut increments are clearly marked on the tape light. Cutting elsewhere will void warranty. Ensure an even cut along the edge of the copper conductors, leaving the exposed copper conductor on the piece of tape light to be used, to ensure enough surface area is exposed for snap connector pins to make contact (see Figure2).

FIGURE 3**CARE AND MAINTENANCE:**

1. Use only a mild soap and water with soft cloth to clean the fixture. Harsh chemicals will damage the finish.
2. Do not wipe the fixture with a rough cloth that may scratch the finish or the lens.