GMLighting®

NeoVision™ mini

INSTALLATION INSTRUCTIONS

MODELS: NVM24S-2W-XXX-16

READ BEFORE YOU START:

NeoVisionMini is a professional grade linear light source for wet locations.

Specifications:
Operating location: Wet location, IP65
Ambient Temp. Range:
-4°F to +104°F (-20°C to +40°C)
Max. Run: 16’ 4”
Operating Voltage: 24VDC
Wattage: 2W/ft, 33W for max. run
Warranty: 5 yrs. (using GM power supply)

WARNING: SHOCK HAZARD. TURN POWER OFF AT CIRCUIT BREAKER BEFORE INSTALLING POWER SUPPLIES.

1. **Verify that power is off before proceeding.**
2. **Install all drivers and tape in accordance with national and local electrical codes and building standards.**
3. **In all cases, GM Lighting recommends that you hire or consult with a licensed and qualified electrician or electrical contractor.**

TAPE INSTALLATION NOTES

This wet location tape is suitable for outdoor use. Prior to installation, verify that all components (LED tape, mounting clips, channels and power supplies) are compatible. See power supply instructions for proper installation.

1. Do not modify this product. Modifying or mounting this product outside of the directions in this installation guide will void the warranty and may result in injury.

2. Only install with GM Lighting LineDRIVE DC LED drivers. Using other drivers voids 5-year warranty.

3. Do not exceed maximum run listed (16’ 4”), and for power supply (per circuit on dual circuit models).

4. Cut at designated cut points only **(FIG. 1)**. Cutting anywhere else will result in damage to the LED tape and will void warranty.

5. Use only the included components for field connections.

6. Contact GM Lighting for custom assemblies.

7. Proper installation will ensure many years of successful usage. Failure to follow safety warnings and instructions will void warranty.

TOOLS/SUPPLIES NEEDED:

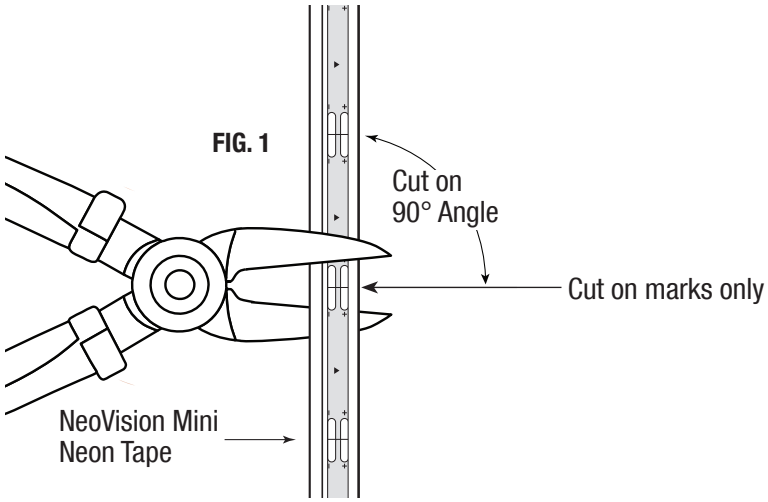
- Straight cutting shears
- 100% silicone, clear
- Sheet metal shears
- Masking tape
- PH0 size Philips screw driver or long driver bits
- Miter saw with aluminum cutting blade
- Drill and holder for driver bit

PARTS INCLUDED:

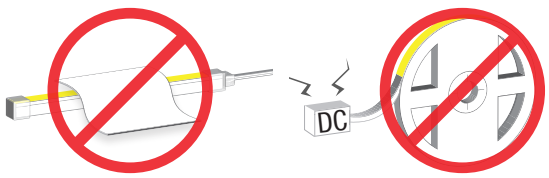
- 1 Reel of NVM24S tape with dual 4ft power feeds, 2 end caps

ACCESSORIES (NOT INCLUDED):

- NVM24S-MC-A (aluminum mounting clips)
- NVM24S-CHL-A4 (aluminum channel)
- NVM24S-FLEX-CHL (SS flex channel)
- TAPE-DS-VHB-4MMW (double sided tape)
- TOOL-PH0-HEX (PH0 Philips head, 1/4” hex drive bit)

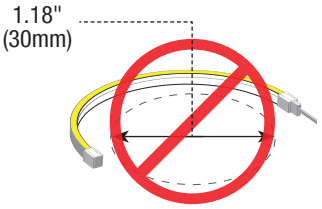


WARNING **DO NOT CONNECT DIRECTLY TO LINE VOLTAGE POWER!**
Read all warnings and installation instructions thoroughly.



Do not cover with any materials.

Do not power while attached to spool or tightly coiled.



Do not bend to a diameter less than 30mm.

Do not fold, crease or twist.

Side Bend: Do not bend on a veritcal plane.

Do not allow product to hang unsupported during installation.

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Field assembly is simple with the Neovision Mini Neon tape.

One reel can make 1 or 2 cut sections. An extra 2" is included to allow for cut end sections.

For making a single run up to 16'-4":

1. Cut a minimum of 2 inches off of one end leaving one cord only. Cut straight over the cut lines.

2. Left over sections without a power feed are to be discarded.

3. Use clear, 100% pure silicone to seal the end cap to the cut end **(FIG. 2)**.

4. Apply silicone to end section, all around silicone sleeve no more than ¼" from cut end of the tape.

5. Insert Neon tape into the end cap. Make sure silicone covers all seams and wipe off excess.

6. Let silicone cure before handling. See silicone package for cure time.

7. Do not power an uncut section from both ends

For making two runs totaling 16'-4":

1. Determine length of each run which must add up to 16'-4" total. An extra 2" is included to allow for cut end sections.

2. Each section must have 1 power feed.

3. Measure from the power feed and cut each section straight over the cut lines.

4. Left over sections without a power feed are to be discarded.

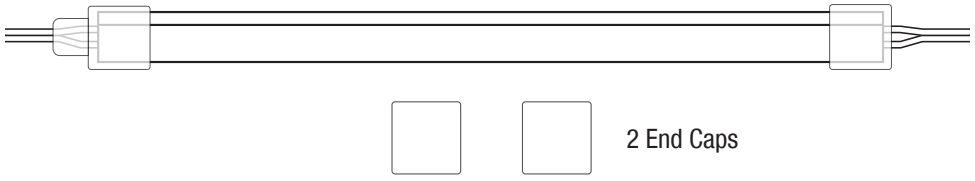
5. Use clear, 100% pure silicone to seal an end cap to the cut end **(FIG. 2)**.

6. Apply silicone to end section, all around silicone sleeve no more than ¼" from cut end of the tape.

7. Insert Neon tape into the end cap. Make sure silicone covers all seams and wipe off excess.

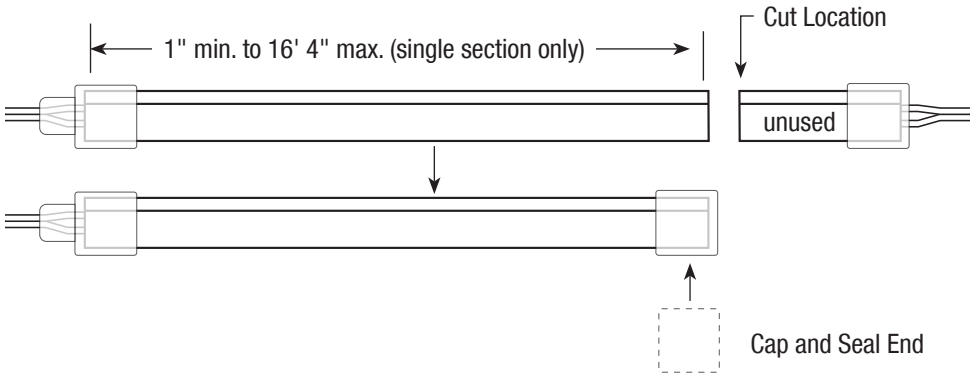
8. Let silicone cure before handling. See silicone package for cure time. (24hrs. typ.)

9. Do not power full reel section from both ends.



Field assembly includes cutting and sealing of the non-powered ends only.
Power feed assembly is for factory only - no field assembly.

Make 1 long section from one reel:



Make 2 shorter section from 1 reel:

A + B = 16' 6" max. (used as separate sections)
(16' 4" max. as single section)

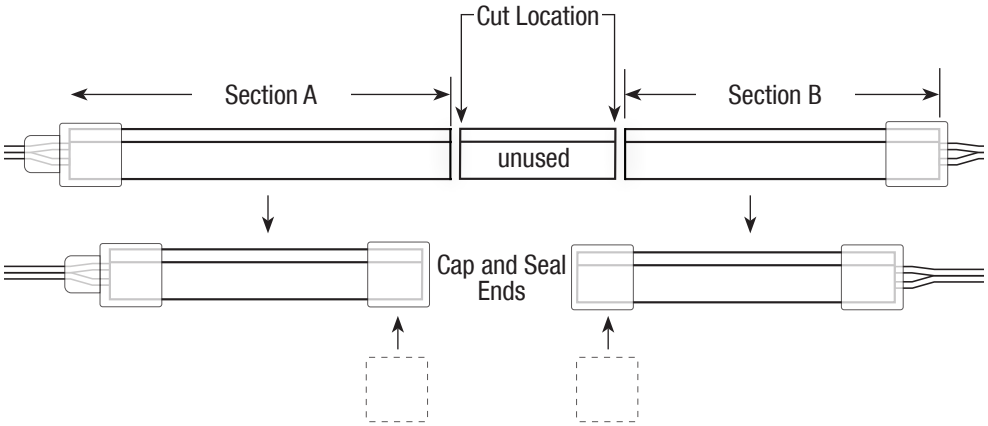


FIG. 1

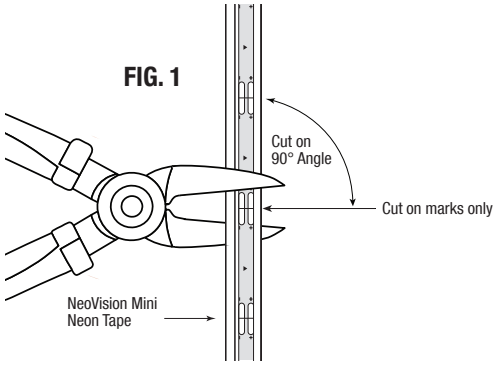
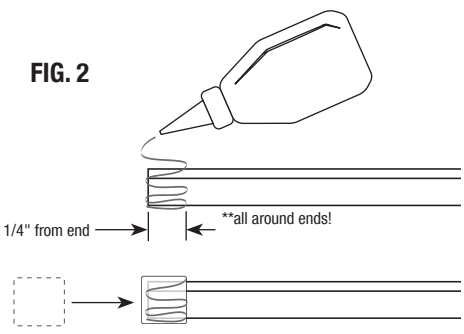


FIG. 2



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MOUNTING WITH FLEXIBLE CHANNEL:

Each length of flexible mounting channel comes in 39.4" (1m) sections.

You can trim sections to size using sheet metal shears. Follow these simple instructions to create a flexible channel that follows horizontal curves **(FIG. 3)**.

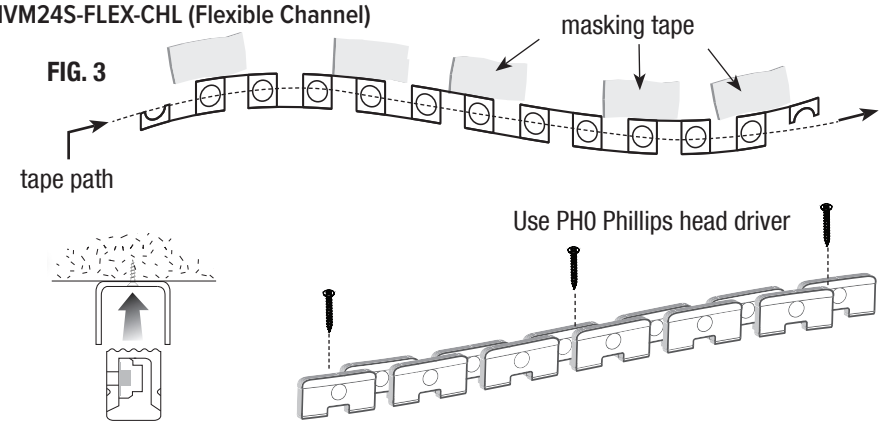
1. Layout shape and mark off each location with masking tape on one side of channel.

2. Install screws at every few screw holes up to every screw hole to secure channel.

3. Insert Neon tape into prongs of flexible mounting channel. Remove masking tape.

NVM24S-FLEX-CHL (Flexible Channel)

FIG. 3



MOUNTING WITH CLIPS:

Use clips every 2” or as needed to hold shape. Follow these simple instructions to create a curving shape that follows horizontal curves **(FIG. 4)**.

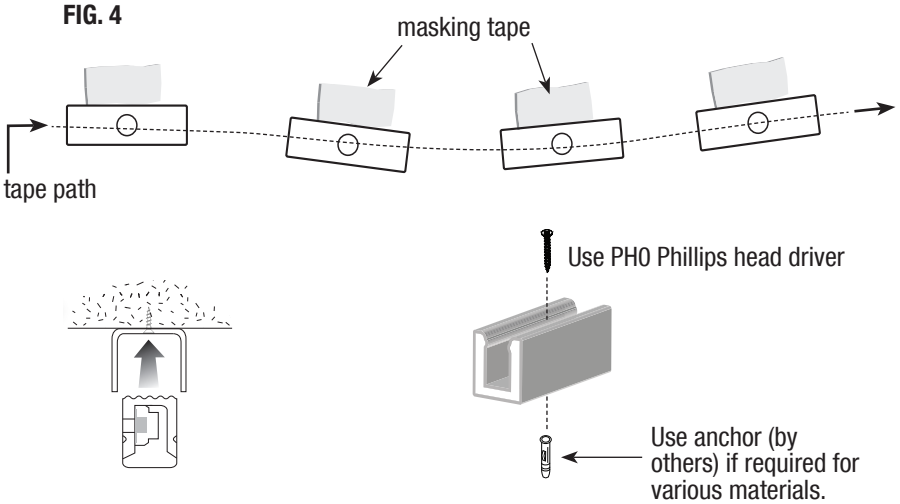
1. Layout shape and mark off each location with masking tape on one side of clips.

2. Install screws at every clip to secure channel.

3. Insert tape into clips. Remove masking tape.

NVM24S-MC-A (Clips)

FIG. 4



MOUNTING WITH RIGID CHANNEL

Each length of rigid mounting channel comes in 48” sections.

You can cut sections to size using a miter saw. Follow these simple instructions to create straight runs of channel **(FIG. 5)**.

1. Layout straight line with masking tape on one side of channel.

2. Cut sections to required length with saw.

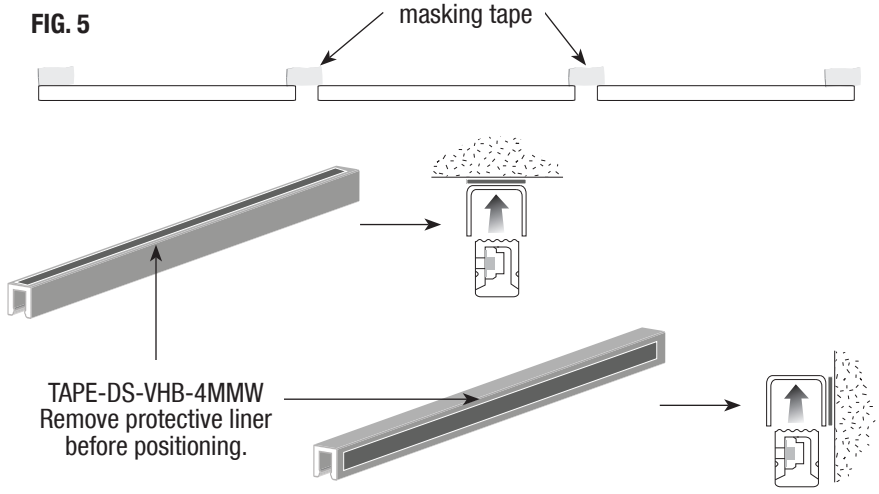
3. Clean channel of oils and dirt. Then apply double sided tape to the back or side as needed. (TAPE-DS-VHB-4MMW)

4. Position first section of channel on surface where needed. Press and hold for 30 sec. for adhesive tape to stay attached. Line up next channel section with previously mounted section. Press and hold. Repeat steps as needed.

5. Insert tape into channel. Remove masking tape.

NVM24S-CHL-A4 (Rigid Channe)

FIG. 5



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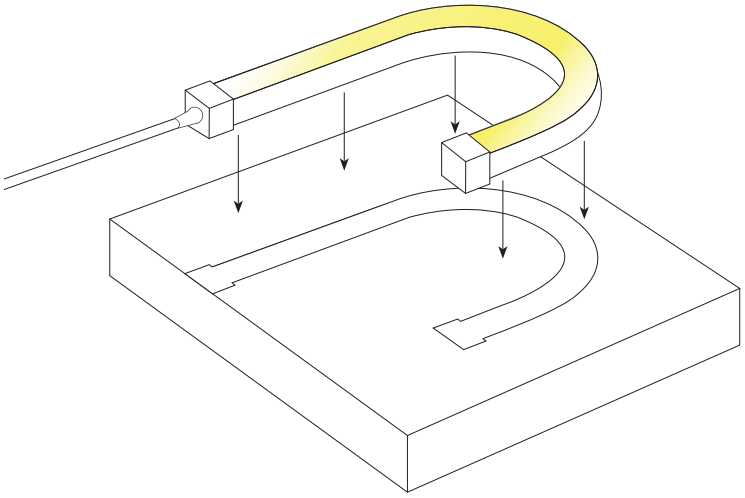
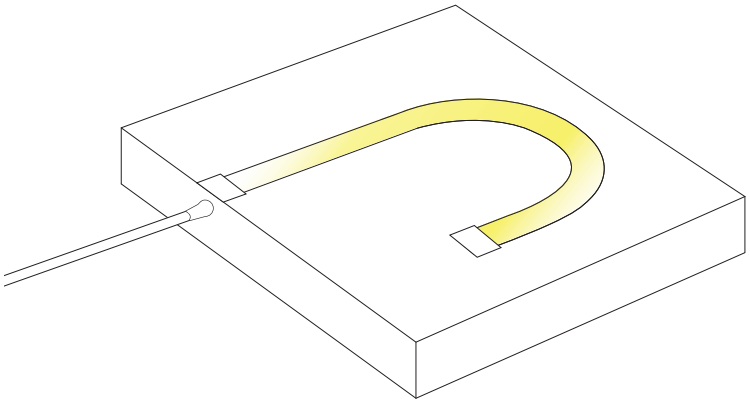
RECESSED MOUNTING

It is best to layout the Neon tape in the shape desired to estimate location of cut point and end caps. DO NOT CUT TAPE UNTIL ROUTING IS COMPLETE AND A TEST FIT FOR LENGTH IS DONE.

TIPS FOR ROUTING

- It is best to experiment with the right depth to get the desired effect.
- Material thickness should be thicker than your routing depth. This provides a backstop for the Neon tape.
- A hand held router may be all that is needed for straight or slightly curved shapes.
- A CNC router is best for complex shapes.
- Use a 5/32” (4mm) wide bit routing down to 0.315” (8mm) for the main tape sections.
- To get the Neon tape flush with the surface, use a 5/16” (8mm) wide bit routing down to 0.394” (10mm) for end caps. (Note that end caps will be raised 1mm)
- You can route out shallower or deeper for different effects.





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