

LINIO NEON 0306X SV

INSTALLATION MANUAL



Before you start	1
Warning	1
Installing Neon	2
01 Installing with Mounting Clips (LN0306-CL)	2
02 Installing with Straight Channel (LN0306-SC)	3
03 Care and maintenance	3
Cutting Instruction	4
Installing End Cap	5
01 Silicone end cap	5
Wiring Diagram	6
Trouble Shooting	7

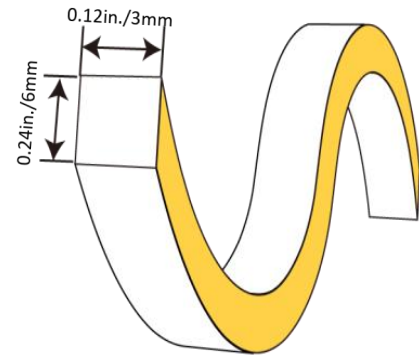
ATTENTION: This product should be installed by a professional licensed electrician.

Before you start

- 1 Verify all product is accounted for and in good condition. If not, please contact information at the bottom.
- 2 Please check local electrical codes.
- 3 Turn power off before installing, and make sure to use properly rated wire.
- 4 Modifying or not following instructions will void the warranty for this product.
- 5 Please read the instructions entirely before starting installation.
- 6 For specifications that call for more intricate installations, please don't hesitate to contact us at info@beamever.com.

Warning

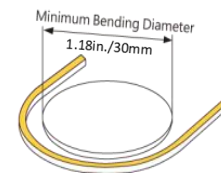
- 1 Please operate this product by instructions, and confirm the work voltage, it must be matched with product specifications.
- 2 Connect and cut this product correctly. Incorrect operations may damage this product.
- 3 Use qualified DC power supply.
- 4 The most suitable operation temperature shall be $-40\sim 131^{\circ}\text{F}$ ($-40^{\circ}\text{C}\sim 55^{\circ}\text{C}$). DO NOT operate light when ambient temperature exceeds this range.
- 5 DO NOT energize the light over 30 minutes in coil packaging while the product is still coiled.
- 6 Avoid direct contact between the product and any paper materials to prevent sticking or surface damage.
- 1 DO NOT bend the product less than the minimum bend diameter 1.18in. (30mm) at any point, as it may cause product damage. Do not twist, drop, hang, drape the product in any way other than the intended approved installation. This product can only bend horizontally in relation to its light output.



Side bending



Top bending



Bend smaller than bending diameter



Hanging

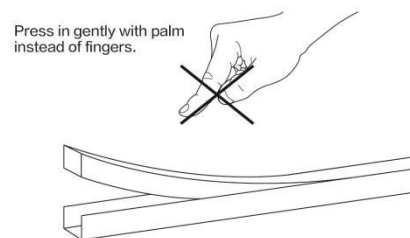
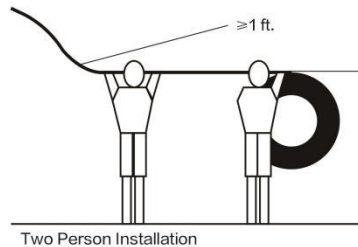


Twisting



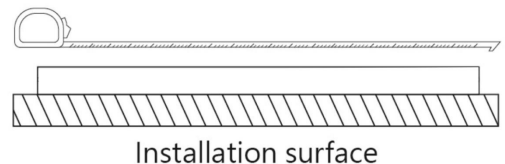
Installing Neon

- It is recommended that the installation be performed by at least 2 persons to ensure proper handling of the product and prevent damage to the electronic and housing construction.
- Please make sure to install the product into profile carefully and correctly. Taking out the product and re-assembling will most likely damage the product.
- Only use hands to install fixture into mounting clips or channels.
- Install the neon from one direction to avoid choking in the middle.
- Whenever possible, use your palm instead of your fingers to press the neon into the channel for more even pressure.
- The M12 connectors used with this product have a 15 mm outer diameter. Ensure all openings and conduits along the routing path accommodate this size before installation.
- If cutting is needed, please refer to the cutting instruction on page 4.



01 Installing with Mounting Clips (LN0306-CL)

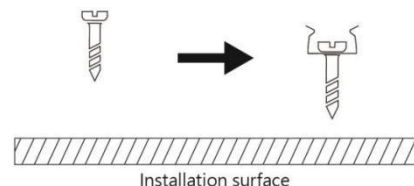
Step 1 Determine the desired location and lengths of neon to be installed. Leave enough distance for power cable to reach the power supplies.



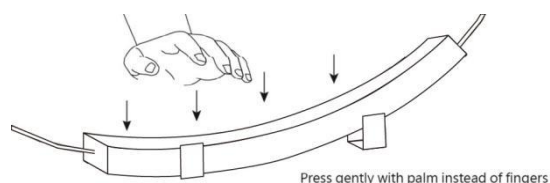
Step 2 Determine the locations and quantity of the mounting clips based on the information from Step 1. It is recommended to use ONE mounting clip for 1ft of the neon.



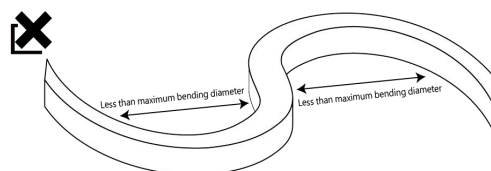
Step 3 Install the mounting clips into position with screws. Make sure the head is flush or lower the base of the channels. DO NOT screw at an angle.



- Step 4** Gently push the neon into the mounting clips from one direction with palm instead of finger.

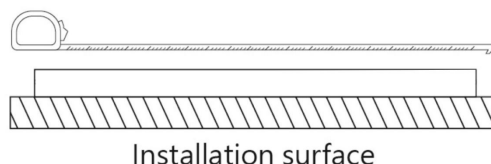


- Step 5** Make sure that the neon does not drape and does not bend to a diameter less than 1.18in. (30mm).

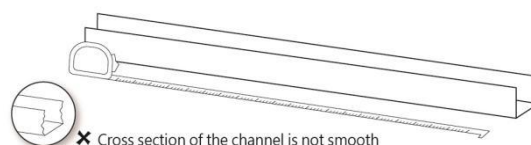


02 Installing with Straight Channel (LN0306-SC)

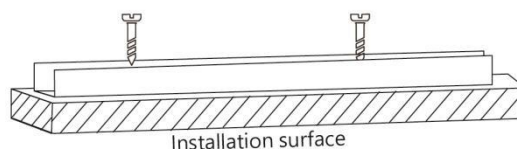
- Step 1** Determine the desired location and lengths of neon to be installed. Leave enough distance for power cable to reach the power supplies.



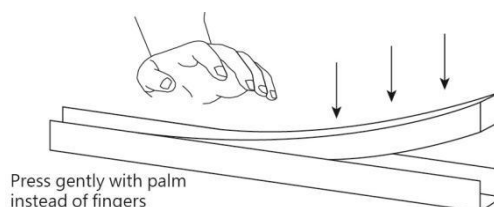
- Step 2** Measure and cut the channel into desired length. Make sure the cross section of the channel is smooth without any burrs.



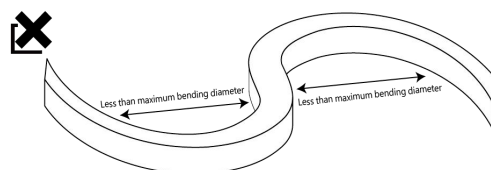
- Step 3** Install the channel into position with screws. Make sure the screw head is flush or lower the base of the channels. DO NOT screw at an angle.



- Step 4** Gently push the neon into the channel at the beginning of the run with palm instead of fingers and moving down the line towards the end.



- Step 5** Make sure that the neon does not drape and does not bend to a diameter less than 1.18in. (30mm).



03 Care and maintenance

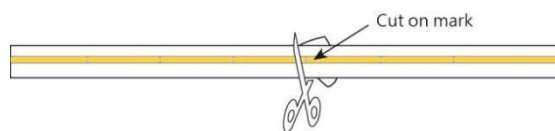
- Use soft, dry or damp cloth to clean the neon.

- DO NOT apply harsh chemicals or abrasives onto the neon.

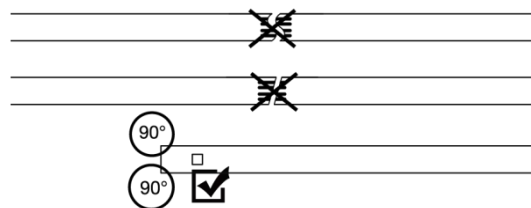
Cutting Instruction

- Skip to **"Installing Neon"** if not cutting to specific length.
- Disconnect power at the source prior to attempting installation.
- Use only factory-recommended cutter.
- Place the light horizontally when cutting it.

Step 1 Determine the desired location of the cut based on the cutting increments marked on the product, with cut marks facing upwards.



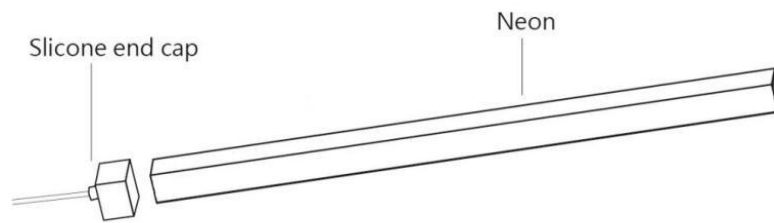
Step 2 Use factory-recommended cutter, gently cut straight down through the body of the product directly on the cutting increment mark. DO NOT cut diagonally or horizontally as this may damage the product.



Installing End Cap

- Disconnect power at the source prior to attempting installation.
- All end caps must be connected correctly to achieve corresponding IP rating.
- Always select the correct end caps for the end of the light.
- NEVER wet the assembly units or assemble with wet hands.

01 Silicone end cap

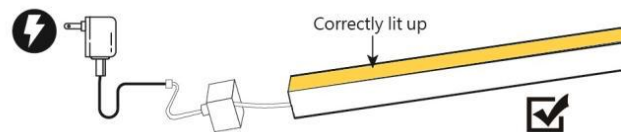


Step 1 Solder cable to the neon with solder iron. Make sure the "+" polarity is connected to the "+" polarity of the PCB.

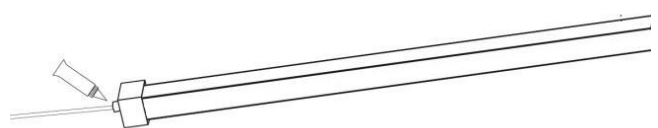


Step 3 Apply silicone glue to the neon.

Step 5 Set power on the strip again and gently bend the strip to ensure the strip is good to be installed.



Step 2 Perform a quick light-up test. Proceed to the next step ONLY after the neon is lit up.

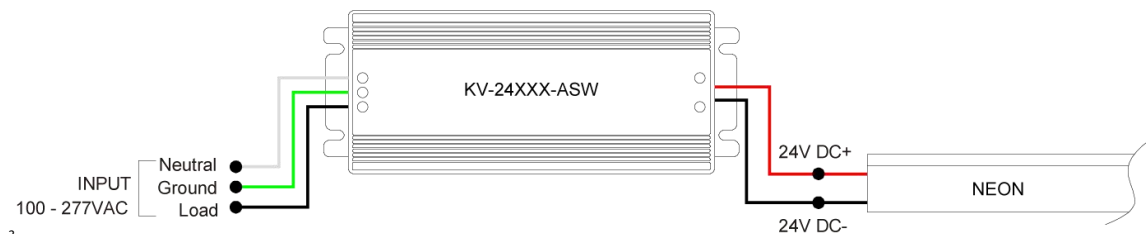


Step 4 Seal the neon with silicone end cap and push until seated. Apply silicone glue to the gap between neon and silicone end cap to tighten it.

Wiring Diagram

- Disconnect power at the source prior to attempting installation.
- Use this product with appropriate 24V DC power supply only. Any other power supply may damage the product.
- Always observe proper polarity.
- Ensure to add 20% buffer when sizing power supply.
- Ensure that the power cable carried current is no greater than 80% of its capacity.
- To minimize the voltage drop and keep light consistency, position power supply nearest to the power feed end of the fixture and keep the power line as short as possible.
- Prior to installing 24V DC power supply, refer to the power supply installation instruction for more information.

Non Dimmable



Phase cut/Triac-dimmable



4 in 1-dimmable (0-10V/1-10V/Potentiometer/10V PWM)



5 in 1-dimmable (0-10V/1-10V/Potentiometer/10V PWM)



Trouble Shooting

01 The whole strip doesn't work.

- Check whether the power supply is plugged in, switched on and receiving power.
- Check whether the strip, decoders, controllers are connected to the power supply correctly.
- Check whether the polarity of all wire connections are connected correctly.
- Make sure power supply output voltage is 24V DC.
- Check whether the connector and end caps are inserted behind the PCB properly.

02 Light emitting appear dim or dull at one end.

- Check whether the power supply output voltage matches the strip's rated input voltage.
- Adjust the dimming level to the maximum.
- Use two-end feeding or split the installation into shorter electrical runs to avoid voltage drop.
- Check whether the strip is too far away from the power supply leading to voltage drop.

03 Light emitting appear excessive brightness.

- Check whether the output voltage of the power supply matches the rated voltage of the strip.
- Check whether the power grid is stable.

04 The first segment of the strip doesn't work.

- Check whether the strip is NOT cut on indicated cutting mark in a straight line.
- Check whether the strip was cut at the correct cutting mark. If cut incorrectly, discontinue installation and contact your supplier for replacement.
- Check whether the first LED was damaged during connector/end-cap installation. Do not attempt to re-seal or re-assemble on site. Contact your supplier for support.
- Check for possible water ingress caused by improper connector or end-cap installation. Replace the section only with a factory-sealed unit.
- Check for signs of external impact damage. Replace the affected section with a new factory-sealed unit.

05 Strip is flashing on and off.

- Check whether the wattage of the power supply supports the load of the entire length of the strip.
- Select the appropriate power supply wattage or install an additional power supply.
- Check whether the power supply output voltage is stable.
- Check whether the connector/end cap is properly installed with good contact with the copper PCB.
- Check whether proper controller is connected for light working.

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