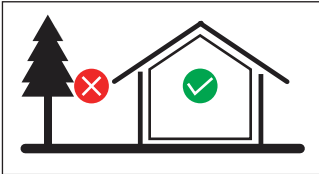# SILICONE NEON STRIP USER MANUAL   V1.0

This user manual applies to NNR18；NNR25......
For more product information, please contact our salesman.
Technical parameters are subject to change without notice
in case of product iteration or updates.
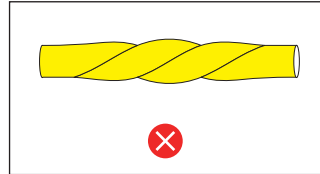
1　Precautions before installation
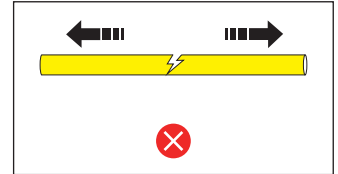
① Recommended for indoor use
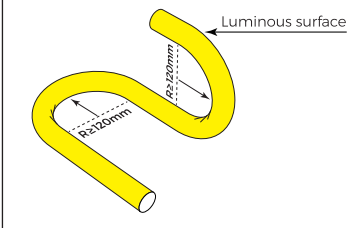
② No pedaling

③ No distortion

④ No Stretching

2　Silicone Neon Strip Bending Radius & Note

360° bending

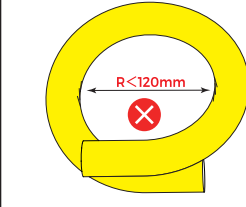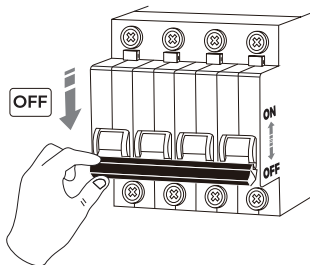① Bending Direction & Min. radius

Luminous surface

R≥120mm

R≥120mm

② The bending radius shall be no less than 120mm
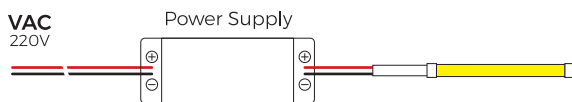
R<120mm

3　Wiring Diagram

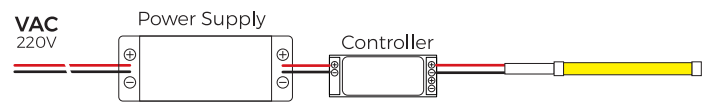⚠ **Turn off the power before wiring !**

OFF

ON
OFF

! Notes

1. These products are subject to thermal expansion due to temperature changes.
   Thermal expansion must be taken into consideration for installation in environment with wide temperature change.
2. Use water and methylated alcohol to clean the surface.
3. The product reaches IP65 protection. Please use wiring system with a protection level equal to or higher than IP65.
4. The product is not suitable for swimming pools and fountains.

① Non-dimming connection mode

VAC
220V
Power Supply

② Dimming connection mode

VAC
220V
Power Supply
Controller

4　Installation

① Ceiling installation

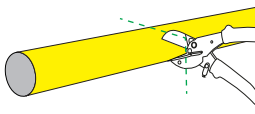② Pendant installation-1

③ Pendant installation-2
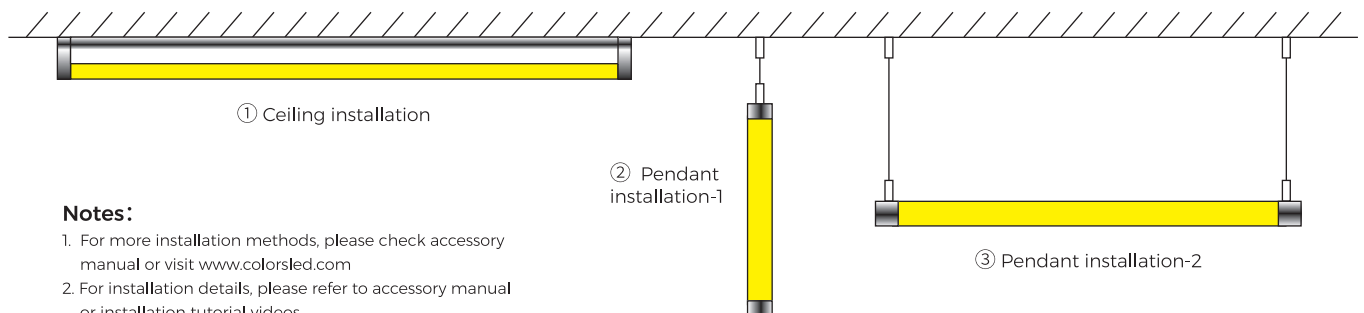
Notes：
1. For more installation methods, please check accessory manual or visit www.colorsled.com
2. For installation details, please refer to accessory manual or installation tutorial videos.
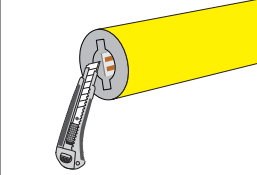3. Contact our sales if any question.

5   Operations of LED strip cutting, welding and plug installing

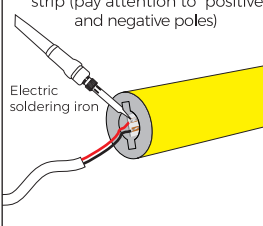① Cut out the LED strip to required length

Note:
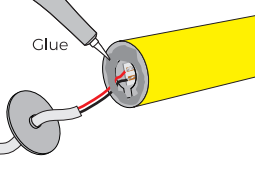For specific cutting unit and method, please refer to specification or contact us. Do not cut at will.

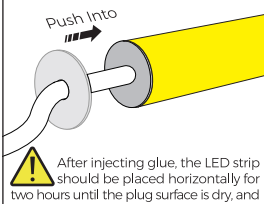② Expose the copper foil of the LED strip

③ Connect the wires with the LED strip (pay attention to positive and negative poles)

Electric soldering iron

④ Put the plug with a hole into the wires and inject glue into the plug

Glue

⑤ Push the plug into the LED strip

Push Into

⚠ After injecting glue, the LED strip should be placed horizontally for two hours until the plug surface is dry, and then to finish the operation of plug end.

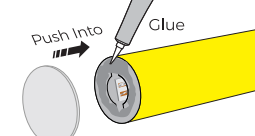⑥ Fill the end of LED strip with filler, then push the plug into the end of LED strip
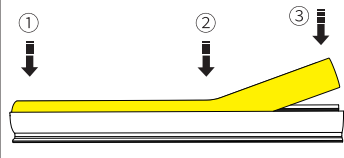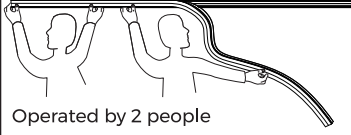
Push Into   Glue

⚠ After injecting glue, the LED strip should be placed horizontally for two hours until the plug surface is dry, and then to finish the operation of plug end.

⑦ When installing the LED strip, install it from one direction, installation from both ends at the same time is prohibited.

①   ②   ③

⑧ If the length of LED strip is over 2m, it is recommended to install or disassemble by two persons.

> 2m

Operated by 2 people

Note:

1. When installing or removing an indicator strap, use tools. Do not drag the indicator strap by hand to prevent damage.

2. If the length is greater than 2m, two or more persons are required to install or disassemble the device.

3. When wiring, please distinguish the positive and negative poles to prevent short-circuit damage to the lamp bead.

6   Precautions and product warranty notes

Precautions:

1. Cut as per cutting line marks for required length of neon strips.
2. Use 24VDC isolated power supply of less than 5% ripple waves to drive neon strips and do not use RC buck or non-isolated power supply.
3. When connecting neon strips in series, light-up test should be made soon after each connection to promptly find out whether the positive and negative poles are correctly connected.
4. Pay attention to positive and negative poles connection. Make sure the power supply conforms to required voltage to avoid damage.
5. Silicone neon strips shall be stored in a dry and sealed environment for no more than 1 year at best. Working temperature: 20℃- +45℃;
   storage temperature: 0℃- +60℃ (for digital series, working temperature: 20℃- +40℃; storage temperature: 0℃- +60℃)
6. Neon strips has unilateral conductivity. If a power cable with a DC/AC converter is used, power-on tests shall be done first after connecting power supply to ensure that the positive and negative poles are connected correctly.
7. In actual applications, 20% of the power supply shall be kept (recommended to use no more than 80% of the power) to guarantee that sufficient voltage is available to drive the product;
8. Attention shall be paid to safe operation. After powering on. it is not allowed to touch the AC power supply to avoid an electric shock.
9. To ensure the duration and reliability of neon strips, be sure to bend it in the specified direction and radius range. For details, please refer to the indicating marks.
10. Please confirm before usage since products of varied sizes may show slight differences in their color under same color temperature due to their structural differences.

Product warranty notes:

1. A 3-year warranty is provided for products in normal use (2-year warranty for digital neon strip). For any issue arising during the period that are confirmed to be quality related by inspection of COLORS, a product of the same model will be replaced for free.
2. The warranty does not cover any of the following:
(1) Any product damage due to usage not allowed in the instructions;
(2) Any product damage due to disassembling or wrong operations by the user;
(3) Severe appearance damage or deformation of the product.

Please read the manual carefully before installation and application, and use the product in the correct way.
Instructions on accessories are included in the manual.
Please properly reserve the manual after reading for future reference.