



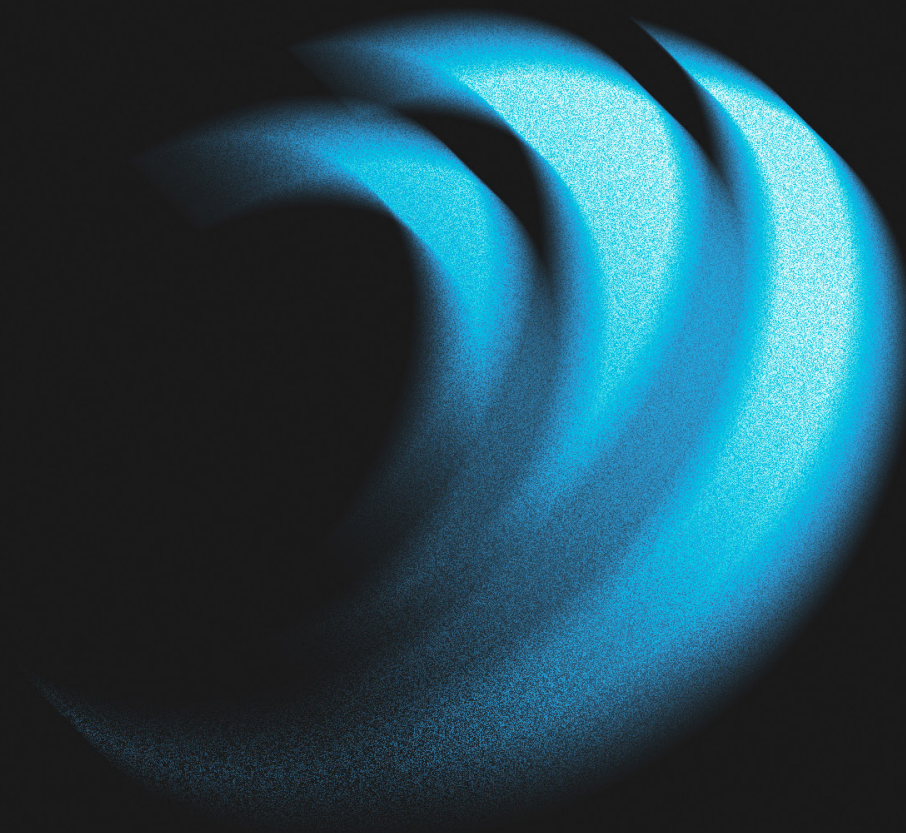
LED

STRIP LIGHT

TN-SD2835

DC 24V

DUAL COLOR TEMPERATURE





TN-SD2835-XXX-XX

Dual color temperature

FEATURES

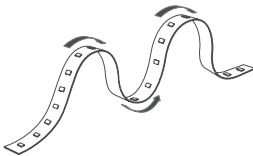
- Color temperature and brightness steplessly adjustable
- Requires a compatible LED controller
- Two-wire color temperature control for easy installation
- Excellent attenuation performance with long chip lifespan
- Cuttable design for flexible installation
- Multiple specifications, support customization



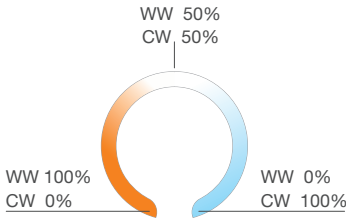
DIMENSION

Input voltage: DC 24V
Ra: >90
Rated power: 14.4W
Power error range: $\pm 10\%$
Warranty: 3years
Working temperature: $-20\sim+60^{\circ}\text{C}$
Storage temperature: $-20\sim+70^{\circ}\text{C}$

Bending radius: $R_{\min}=30\text{mm}$



Color temperature adjustment



OPTICAL & ELECTRICAL PARAMETERS

Model No.	Voltage	Ra	Color	CCT(K)	Lm/m	Lm/W	W/m
TN-SD2835-120-24	24V DC	>90	W	☒ 2700	1022	71	14.4
			N	☐ 6500	1108	77	

OTHER PARAMETERS

Model No.	LED Qty (pcs/m)	Standard Packing Length (mm)	Max Run (m)	Min. cutting unit (mm)	LED pitch (mm)
TN-SD2835-120-24	120	5000	7	50	8.3

NOTE:

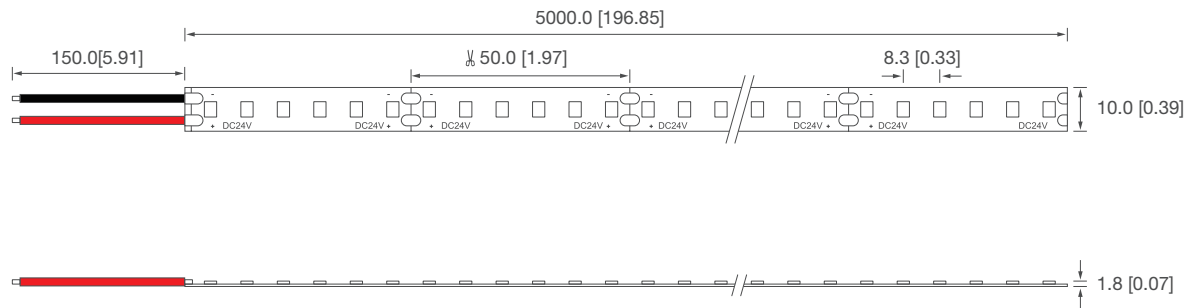
- Test environment temperature is $25\pm 2^{\circ}\text{C}$.
- The above data was measured under standard conditions and actual data may be different. We would update data without further notice.
- The above luminous flux data is based on corresponding light color.
- If the selected LED chip is different, the color temperature and luminous flux will change accordingly.
- *Typical luminous flux error is $\pm 10\%$.
- *The Max run length is based on one end power feed.

PRODUCTION PROCESS

IP Process	IP Rating	Picture description	Diagram
N ▶	IP20	Non-waterproof	
WP ▶	IP64	Spray Glue Coated	
WS ▶	IP65	Thick Glue Coated(WS)	
WT ▶	IP67	Tube Waterproof(WT)	

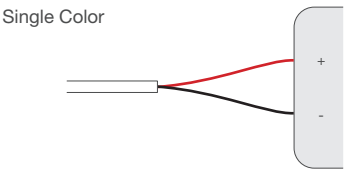
PROFILE DRAWINGS

Unit: mm[inch]

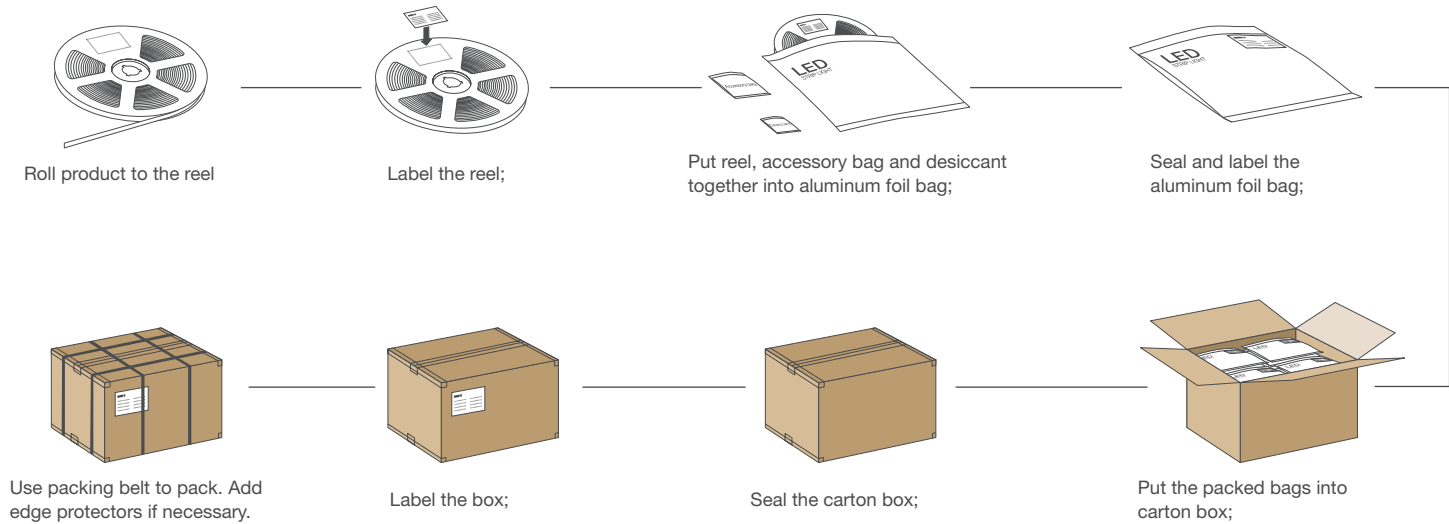


Note: for more info, please contact sales rep.

WIRING DIAGRAM



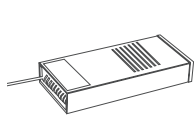
PACKAGING INFORMATION



Model No.	Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Net Weight (kg)	Gross Weight (kg)
TN-SD2835-120-24	5000*10	550*400*340	5	100	16.28(1±10%)	21.25(1±10%)

Note:
The above-mentioned packaging quantity and weight are only for the illustrated packaging method. For other packaging methods, the packaging quantity and weight will be different. The actual weight is subject to the actual product.

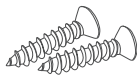
INSTALLATION TOOLS



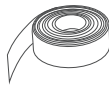
LED power supply



Diagonal pliers



Screw



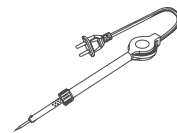
Insulation Tape



Clips



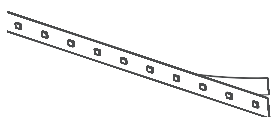
Electric drill



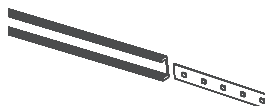
Electric iron

INSTALLATION METHODS AND STEPS

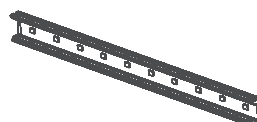
Aluminum channel installation



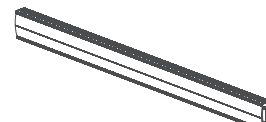
Peel away the self adhesive tape on the back of strip.



Cut off the excess part based on the installation position.

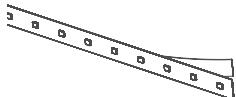


Evenly arrange the strips with appropriate spacing in the track.

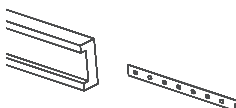


Install the cover and end cap.

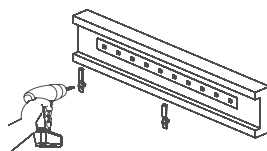
Covered channel installation



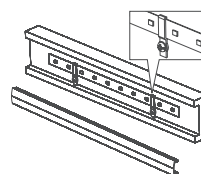
Peel away the self adhesive tape on the back of strip.



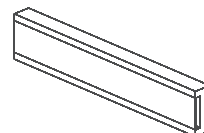
Cut off the excess part based on the installation position.



Evenly arrange the strips with appropriate spacing in the track and fix them with clips.



Install the cover and end cap.



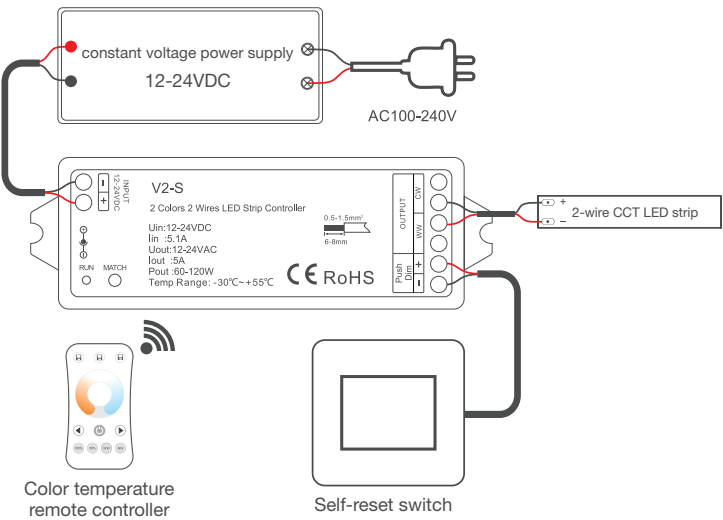
Finished.

ATTENTIONS BEFORE INSTALLATION

- Before installation, please check whether the parameters of the product are consistent with the requirements (Seeing the Product Specification or Label).
- The voltage, current, and power of the power supply and load used must be consistent with this product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Product wires must be correctly connected to the positive and negative terminals of the power output, otherwise the light will not turn on.
- The power cord should be tightly screwed into the terminal, with a recommended tightness that cannot be pulled out by hand.
- The connection terminals must be effectively waterproof and corrosion-resistant.
- **For non-waterproof or S-type strips, if the installation length exceeds the maximum run length, more power feed is needed.**
- **For non-waterproof or S-type strips, auxiliary heat dissipation appliances must be added when the current of single LED exceeds regular value.**

WARNING

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation, especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation, waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm² cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.



Color Temperature Remote Controller

- 1. Control range: 30 m in open, unobstructed areas.
- 2. Each controller (one or more) can be assigned to different zones, e.g., Zone 1, 2, 3, or 4.



Self-reset switch for dimming and CCT adjustment

Short press	Turn on/off the lights
Long press (>1s) when off: Turn on	Adjust color temperature
Long press (>1s) when on: Adjust	adjust brightness

Self-reset switch synchronized dimming

The self-reset switch interface can connect to a self-reset panel switch or button for dimming.

If multiple controllers are connected to the same self-reset switch, long-press for 10s to synchronize all lights to 100% brightness.

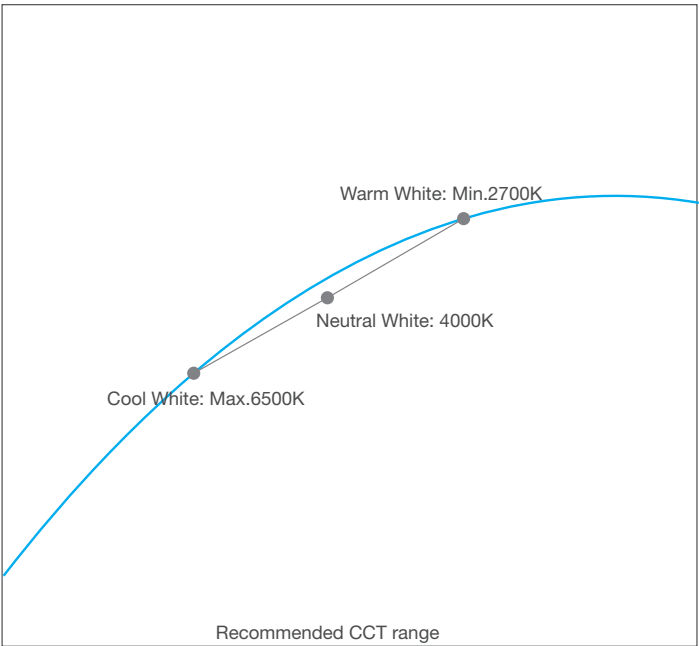
Recommended maximums: no more than 25 dimming power supplies per switch, and switch connection cable length no more than 20m

Dual Color Temperature Control

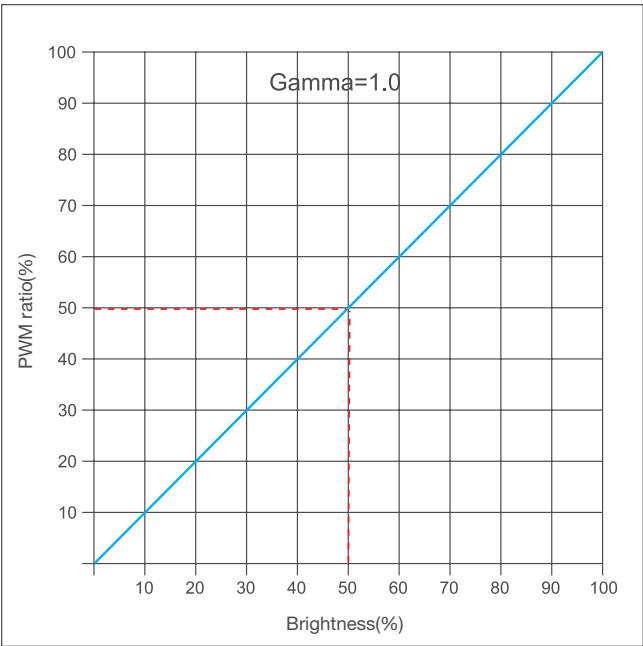
Maximum 120W per channel (@24V). Color temperature control as follows:

Color Temperature	Cool White	Neutral White	Warm White
Power distribution	WW=0W, CW=120W	WW=60W, CW=120W	WW=120W, CW=0W

Linear color temperature adjustment



CCT dimming curve



Version	Content	Date
C1.0	First release	2025-9-24

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