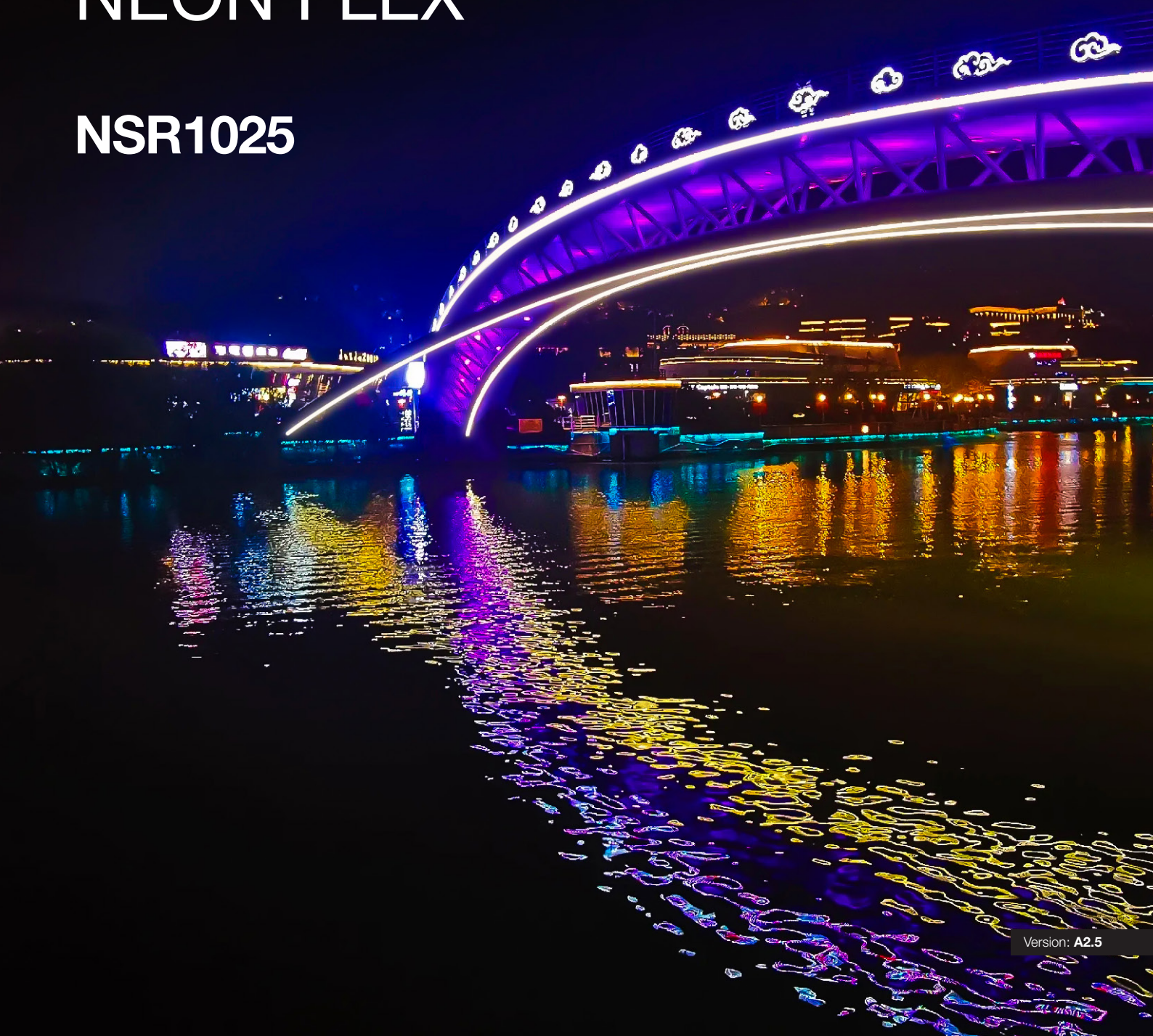


LED

NEON FLEX

NSR1025





Features

- Color options: WN, RGB, RGBW and PIXEL.
- Silicone integrated extrusion shaping process, good weather adaptability.
- Good flexibility, side bending.
- Support 0~1KHz PWM dimming (Pixel do not support PWM dimming and is recommended to use controller SP105E/MR-502).
- Warranty: 5 years indoor, 3 years outdoor.
- Customization: multiple spec options, can be customized upon requirements.



Optical & Electrical Parameters

Model No.	Voltage	Beam Angle	Ra	Color	Lm/m	Lm/W	W/m
NSR1025-WN	24V DC	180°	>80	W:5600K	297	41.4	7.2
				N:3000K	280	39.4	7.2
				W+N	565	39.5	14.4
NSR1025-RGB	24V DC	179°	/	Red	50	10.3	5.7
				Green	126	23.6	5.7
				Blue	27	5.0	5.7
				RGB	202	13.0	17.2
NSR1025-RGBW	24V DC	200°	>80	6000K	91	17.3	4.3
			/	Red	26	6.2	4.3
			/	Green	52	11.4	4.3
				Blue	13	2.7	4.3
				RGBW	173	9.4	17.2
NSR1025-RGB (SPI:TM1914A)	24V DC	200°	/	Red	23	3.4	4.3
				Green	47	6.9	4.3
				Blue	11	1.5	4.3
				RGB	77	5.5	12.9
NSR1025-RGBW (SPI:UCS2904B)	24V DC	182°	>90	6000K	136	11.1	12.0
			/	Red	26	3.2	7.9
			/	Green	87	7.6	11.0
				Blue	23	1.9	12.0
				RGBW	131	5.1	19.2

RGB/RGBW data is obtained when three/four LEDs are all lit

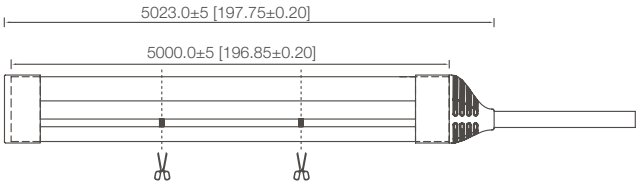
Other Parameters

Model No.	LED QTY	Pixel	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NSR1025-WN	240pcs/m	/	10.0m	50.0mm	-20~+60℃	-20~+70℃
NSR1025-RGB	72pcs/m	/	5.0m	83.3mm		
NSR1025-RGBW	72pcs/m	/	5.0m	83.3mm		
NSR1025-RGB (SPI:TM1914A)	60pcs/m	10Pix/m	5.0m	100.0mm		
NSR1025-RGBW (SPI:UCS2904B)	60pcs/m	10Pix/m	5.0m	100.0mm		

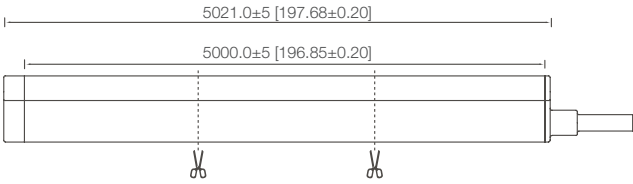
Profile Drawings

Unit: mm[inch]

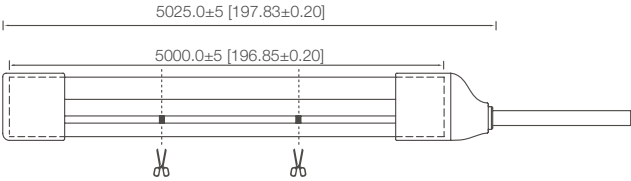
Glue Process (IP67)



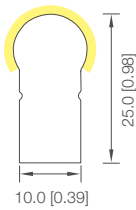
Molding pressed (IP67)



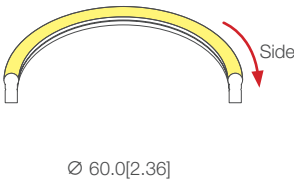
Molding pressed (IP68)



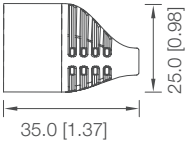
Sectional view



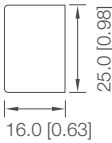
Bend direction



Front cap / Glue Process (IP67)



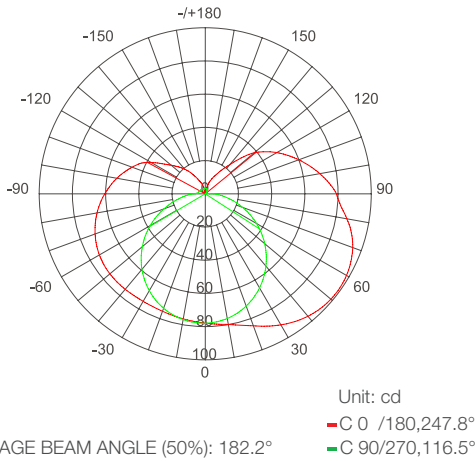
Closing End-cap / Glue Process (IP67)



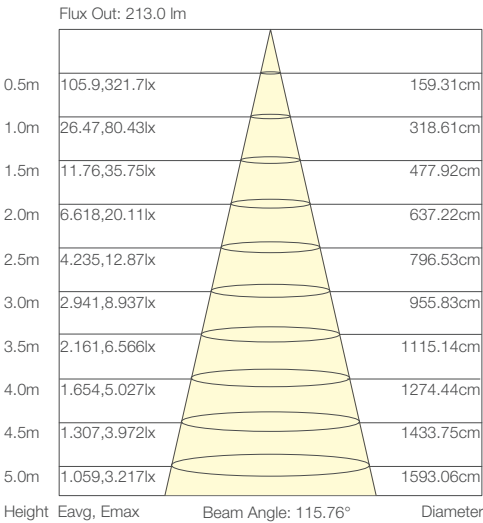
Note: the strip length supports customization within 5m.

Luminous Intensity Distribution Diagram

Average Illumination



Note: For more info, please contact sales rep.



Recommended power supply upon working length

Model No.	NSR1025-WN			NSR1025-RGB		
Working Length(m)	1	5	10	1	5	10
Measured Current (A)	0.6	3.0	6.0	0.72	3.24	6.48
Rated Voltage (DC V)	24	24	24	24	24	24
Measured Power(W)	14.4	72.0	144.0	17.28	77.76	155.52
Recommended Power Supply(W)	24	100	200	30	100	200
Power Supply Mode	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed	Double Feed

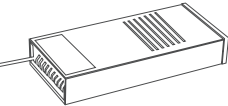
Model No.	NSR1025-RGB-R		NSR1025-RGB-G		NSR1025-RGB-B	
Working Length(m)	1	15	1	15	1	15
Measured Current (A)	0.2	2.7	0.22	2.97	0.22	2.97
Rated Voltage (DC V)	24	24	24	24	24	24
Measured Power(W)	4.80	64.8	5.28	71.28	5.28	71.28
Recommended Power Supply(W)	7.2	100	7.2	100	7.2	100
Power Supply Mode	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed

Model No.	NSR1025-RGBW			NSR1025-RGBW-R	
Working Length(m)	1	5	10	1	20
Measured Current (A)	0.72	3.24	6.48	0.18	3.24
Rated Voltage (DC V)	24	24	24	24	24
Measured Power(W)	17.28	77.76	155.52	4.32	77.76
Recommended Power Supply(W)	30	100	200	7.2	100
Power Supply Mode	Single Feed	Single Feed	Double Feed	Single Feed	Single Feed

Model No.	NSR1025-RGBW-G		NSR1025-RGBW-B		NSR1025-RGBW-W	
Working Length(m)	1	20	1	20	1	20
Measured Current (A)	0.19	3.24	0.2	3.6	0.22	3.96
Rated Voltage (DC V)	24	24	24	24	24	24
Measured Power(W)	4.56	82.08	4.8	86.4	5.28	95.04
Recommended Power Supply(W)	7.2	120	7.2	120	7.2	120
Power Supply Mode	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed

Model No.	NSR1025-RGB (SPI:TM1914A)		NSR1025-RGBW (SPI:UCS2904B)	
Working Length(m)	1	5	1	5
Measured Current (A)	0.54	2.43	1.05	4.98
Rated Voltage (DC V)	24	24	24	24
Measured Power(W)	12.96	58.32	25.2	119.7
Recommended Power Supply(W)	20	80	48	180
Power Supply Mode	Single Feed	Single Feed	Single Feed	Single Feed

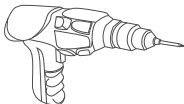
Products and Tools



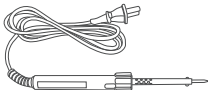
LED power supply



Cutter



Electric drill



Electric iron

Product accessories



ASY-NSR1025-N00NNH-EC

Item: Front cap (Glue Process)
Dimensions L*W*H: 45*26*12mm
Quantity (5/10m): 2-4pcs
Free/Optional: Free



ASY-NSR1025-N00NNX-EC

Item: Closing End-cap (Glue Process)
Dimensions L*W*H: 27*16*14mm
Quantity (5/10m): 2-4pcs
Free/Optional: Free



ASY-NSR1025-N00NNL-EC

Item: Front cap(left outlet)
Dimensions L*W*H: 18*25*27mm
Quantity (5/10m): --
Free/Optional: Optional



ASY-NSR1025-N00NNR-EC

Item: Front cap (right outlet)
Dimensions L*W*H: 18*25*27
Quantity (5/10m): --
Free/Optional: Optional



ASY-NSR1025-N00NNB-EC

Item: Front cap (bottom outlet)
Dimensions L*W*H: 18*14*39mm
Quantity (5/10m): --
Free/Optional: Optional



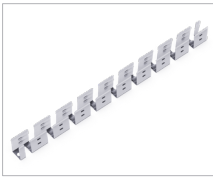
ASY-NSR1025-A2NN1000-MT

Item: Aluminum channel (with metal spring)
Dimensions L*W*H: 1000*12.3*17mm
Quantity (5/10m): --
Free/Optional: Optional



ASY-NSR1025-A4NN0035-MT

Item: Aluminum clip (with metal spring)
Dimensions L*W*H: 35*15*21mm
Quantity (5/10m): --
Free/Optional: Optional



ASY-NSR1025-MNN0500-EC

Item: S-type channel
Dimensions L*W*H: 500*11*17mm
Quantity (5/10m): --
Free/Optional: Optional



PA3

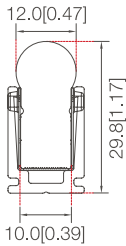
Item: Screws
Dimensions L*W*H: PA3*10mm
Quantity (5/10m): --
Free/Optional: Optional



WR-7516

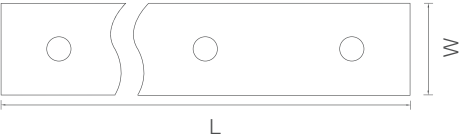
Item: Silicone Glue
Dimensions: 45g/pc
Quantity (5/10m): --
Free/Optional: Optional

Profile Drawings (neon + aluminum channel)



Aluminum channel (with metal spring)
ASY-NSR1025-A1(A3)NNXXX-MT

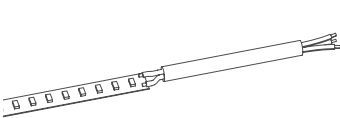
Accessories diagram



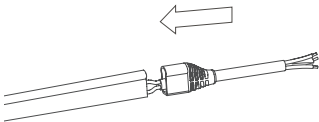
Note:
The quantity of accessories subject to actual needs;
If customers want to process molded caps by themselves, corresponding molds and molding equipment are needed;
If the customer processed the molded cap, resulting in its waterproof failure to meet our standards, the hidden quality risks are not covered by the warranty;

Installation

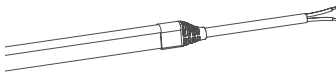
Front cap installation



Weld the wire to the PCB board.

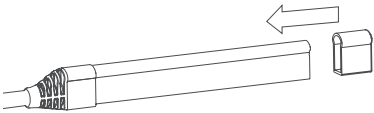


Filling the cap with glue, then install to the strip light.

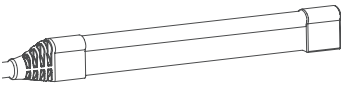


Wipe off the excess glue and wait to dry

Closing end-cap installation

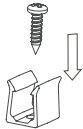


Filling the cap with glue, then install to the strip light.

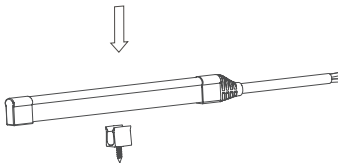


Wipe off the excess glue and wait to dry

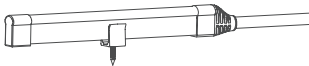
Plastic clip installation



Fix the clip with screws

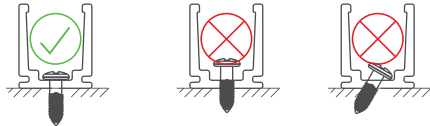


Put the strip into the clip

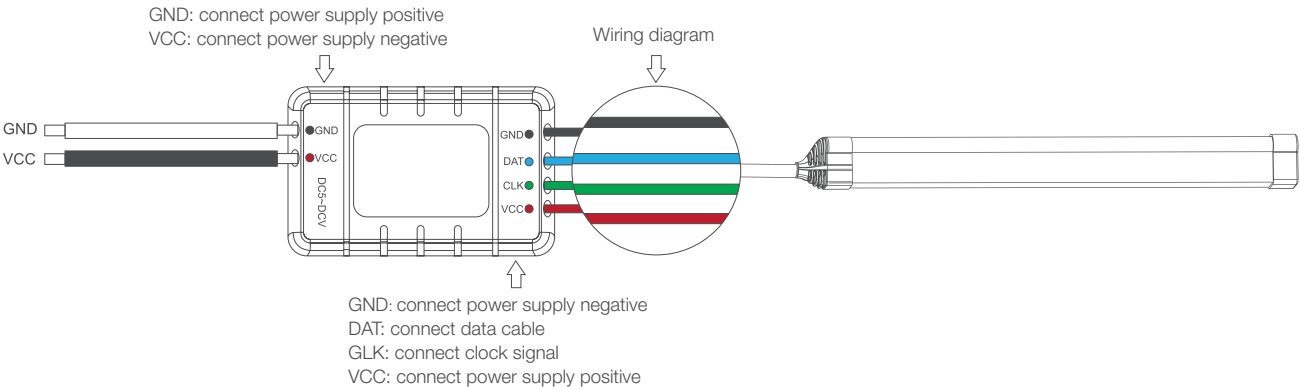
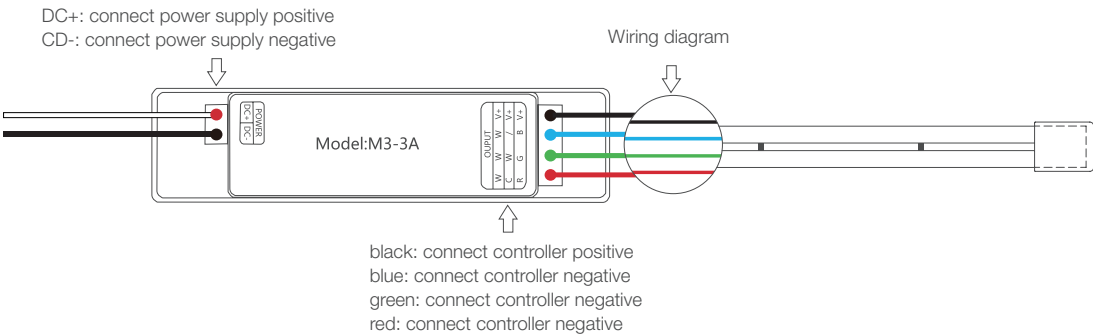


Finished

- Note:
- At the welding place, please pay attention to the positive and negative poles of the wire and the strip;
 - Each connection must use 10g silica gel for waterproof and insulating treatment;
 - The screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right;
 - Please choose suitable operation steps according to the actual needs;
 - During mounting, please pay attention to the min bending diameter, and best to use original factory accessories;
 - More information, please feel free to consult us;



Controller wiring diagram



- Notes:
1. The case uses the SP105E pixel controller;

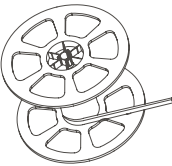
2. The controller supports Bluetooth and mobile phone APP control;

3. Bluetooth control distance is 20m;
4. SP105E can drive up to 2048 pixels;

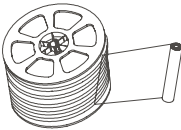
5. Controller SP105E working voltage DC5~24V;

6. For other information, see the SP105E Illusion Manual. SP105E recommends a load of less than 50m;

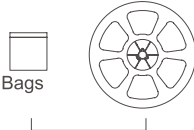
Packaging Information



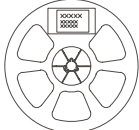
Roll the product to a reel



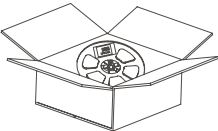
Wrap it with PE film



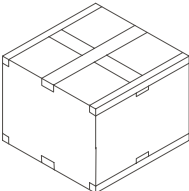
Put the reel and accessories bag on the work table



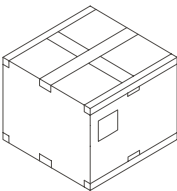
Label the reel;



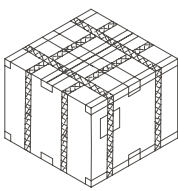
Put the prepared products into a carton box;



Seal the carton box;



Label the carton box;



Use packing belt to pack. Add edge protectors if necessary

Packaging information

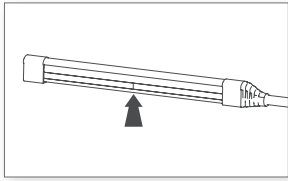
Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NSR1025-WN	10000*10*25	390*390*325	10	3	12.25 (1± 10%)
NSR1025-RGB	5000*10*25	390*390*325	5	10	18.65 (1± 10%)
NSR1025-RGBW	5000*10*25	390*390*325	5	10	18.65 (1± 10%)
NSR1025-RGB (SPI:TM1914A)	5000*10*25	390*390*325	5	10	16.15 (1± 10%)
NSR1025-RGBW (SPI:UCS2904B)	5000*10*25	390*390*325	5	8	15.50 (1± 10%)

- 5/10m per reel, and the reel is packed in an aluminum foil bag, and finally in an outer box.
- For other customized length packaging, please ask our sales rep.
- 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.

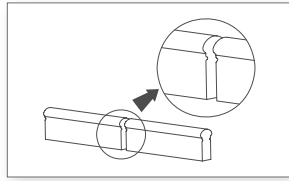
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	Temperature cycling test	Th = 60°C/4h, Ta =20°C/1H, TL=- 40°C/4h,continuous cycle lighting	Pass
		High temperature resistance test	Simulated TH=60 °C, continuous power on	
		Room temperature bending test	Bending diameter 60mm, continuous power on under room temperature	
		Room temperature aging test	Ta=25°C, continuous lighting	
Mechanical strength testing	Blueview standard	Tensile test	Fix both ends of the sample on the upper and lower clamps of the tensile machine and record the tensile value of the product when the light is off.	Pass
		Twisting test	Light on the sample, forward and reverse rotation 360° one time each, a total of 10 times.	

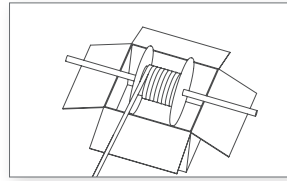
Warning Mark



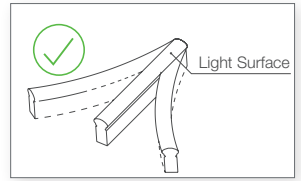
Cuttable identifier



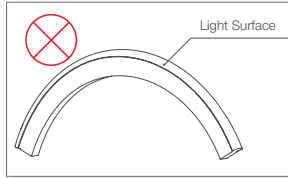
Neat and smooth cut



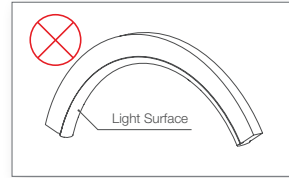
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



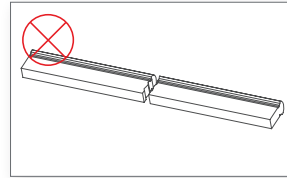
Side bending



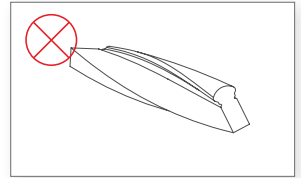
use in convex direction



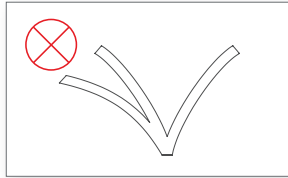
use in concave direction



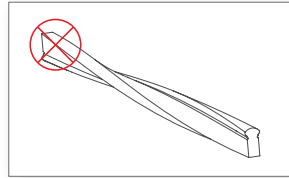
Do not make irregular cuts.



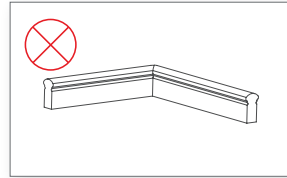
Do not use in distortions



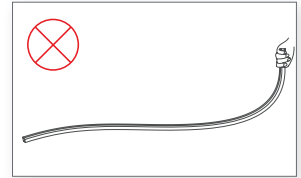
Do not bend many times, for it can endanger electronic lines.



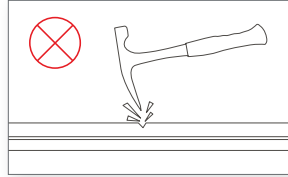
Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products



Avoid touching sharp objects

Note:

1. There are cutting marks on the PCB;
2. Please pay attention to above warnings during transportation and using;

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.

Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have waterproof and anti-corrosive treatment.

Statements and Recycling

Packaging information

- Repair should be operated by a qualified technician or supplier, if the external circuit or main line of this product is damaged.
- The parameters given in this manual are typical values and for reference only
- All illustrations and drawings in this manual are for reference.
- This product is subject to change without notice.

Recycling

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.

Version	Content	Date
A2.5	Upgrade: Profile Drawings (neon + aluminum channel)	2023-8-31

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