

Instruction Manual

Industrial Multi-Color LED Strip Light

TYPE MSL-02JSN-RGBC

Notice to Customer Thank you very much for purchasing our MidrangeSignal products.

- This product requires installation, wiring, and other related work. Be sure to ask an expert technician to perform these procedures.
- Prior to installation, read this manual thoroughly before using this product to ensure correct use.

1 Read this First (Safety Precautions)

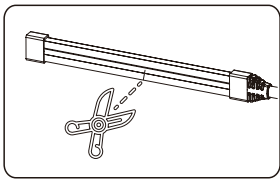
WARNING Indicates an imminently dangerous condition: failure to follow the instructions may lead to death or serious injury.

- To prevent from short-circuits or damage, observe the following:
 - Be sure the power is disconnected before replacement or repair, including the replacement of the fuse.
 - Use this product in a properly maintained condition. (Replace or repair if the globe, case, etc. are damaged.)
- If installing this product requires construction work, ask a specialist in order to avoid fire, or personal injury.
- When this product is used for security purposes, it should be inspected daily. In case a malfunction should occur, it is recommended that you use this product together with other security products.
- After installation, do not use this product to climb up onto the equipment with. Failure to comply will result in product damage and/or falling off the machinery.

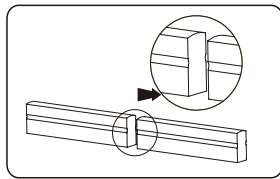
CAUTION Indicates a potentially dangerous condition: failure to follow the instructions may lead to slight injury or property damage.

- Be sure to put a fuse in the wiring circuit between the power source and equipment for protection. If a fuse is not added, it may result in product and/or equipment failure.
- Be sure to prevent electrostatic damage due to discharge when working with this product for wiring, exchanging units, setting up parameters, etc. by discharging static electricity on your body, etc.
- Do not disassemble or detach during operation.

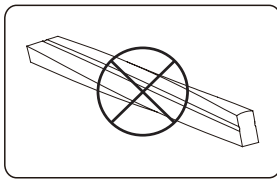
Warning Signs



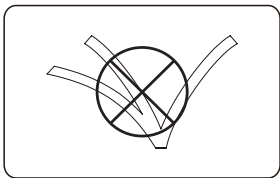
Cutting mark



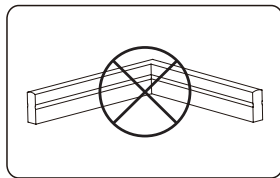
Keep well-cut



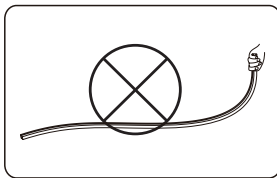
No twisting use



Prohibit repeated bending



Prohibit bending at right angle



Prohibit to swing and drag while installing

2 Model Number Configuration

Industrial Multi-Color LED Strip Light

Aluminium Profile *Optional parts

Opal Cover *Optional parts

MSL-02JSN-RGBC

MSL-0000-ALP

MSL-0000-MKC

Length
3 : 300mm
6 : 600mm
10 : 1000mm

Length
0050 : 50mm
0300 : 300mm
0600 : 600mm
1000 : 1000mm

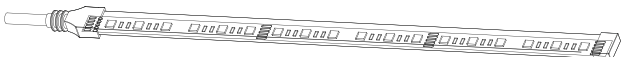
Length
0300 : 300mm
0600 : 600mm
1000 : 1000mm

*Must be used with an aluminum profile.

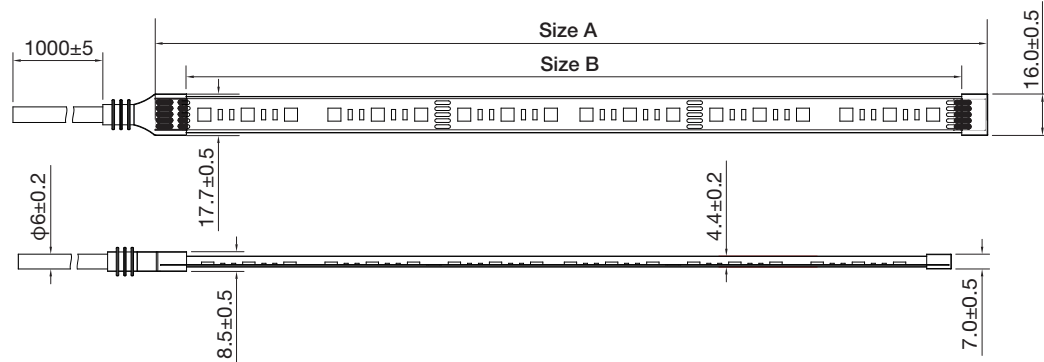
3 Dimensions(mm)

Industrial Multi-Color LED Strip Light

MSL-02JSN-RGBC



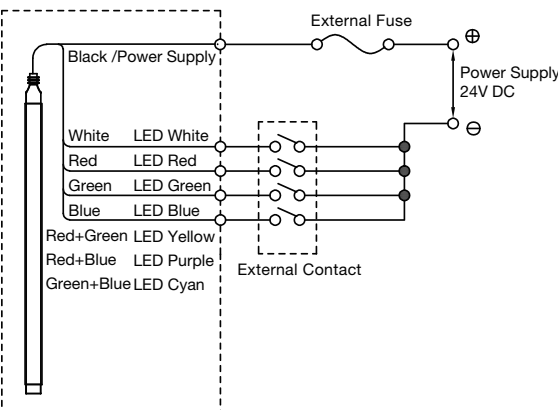
Product	Size A	Size B
MSL3-02JSN-RGBC	322.5 ^{+1.5} ₋₀	301.5 ^{+1.5} ₋₀
MSL6-02JSN-RGBC	622.5 ^{+1.5} ₋₀	601.5 ^{+1.5} ₋₀
MSL10-02JSN-RGBC	1022.5 ^{+1.5} ₋₀	1001.5 ^{+1.5} ₋₀



4 Wiring

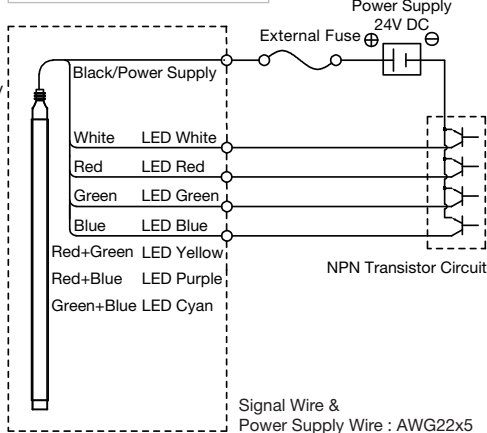
External Contact Classification

Voltage Contact Relay



External Contact Classification

PLC (NPN Transistor)



Caution ● Make sure the power is OFF before wiring. A short circuit may damage internal circuits.

- Ensure the proper working voltage is used. Any mistake in wiring may result in damage.
- Be sure the wiring is done properly. Any mistake in wiring may result in damage..
- Do not apply a voltage to any wire other than the power supply wire. Failure to comply will result in product damage.

Caution

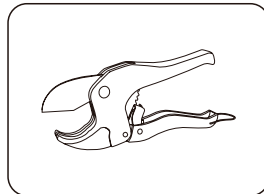
- Do not operate with all four colors (RGBW) turned on simultaneously for extended periods, as this may affect the product's temperature rise, lifespan, and reliability.

5 Installation

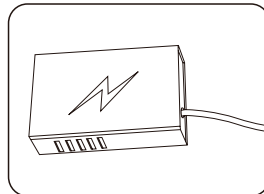
Warning

- This product is a low-voltage DC 24V LED strip. Please connect it to a corresponding DC24V controller. Do not connect the LED strip to any controller or power supply with a voltage higher than DC24V, as overvoltage may damage the strip.
- Installation and maintenance must be carried out by qualified personnel only.
- This product must not be bent sideways. The minimum bending diameter on the front side is 100 mm.
- During installation, avoid placing the bend exactly at the position of LEDs or other components. Two people are required for installation. Do not bend the strip sideways during installation, as this may cause the LEDs or other components to detach or become damaged, resulting in partial failure of the strip.
- Do not touch the product with sharp objects during installation or use. Do not pull or tug on the LED strip or the power cord during use.

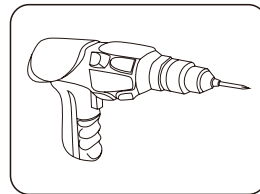
Installation Information



Cutting Tool



Power Adapter



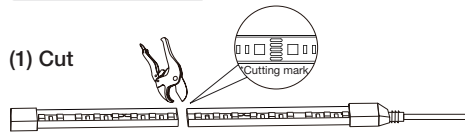
Electric Screwdriver

Cutting and Installation

* This product must be used with the separately sold optional parts MSL-001.
The MSL-001 kit contains 10 ml of silicone glue and 10 end caps.

Installation Example

(1) Cut



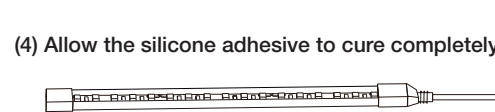
(2) Glue



(3) Fix the end cap



(4) Allow the silicone adhesive to cure completely.*



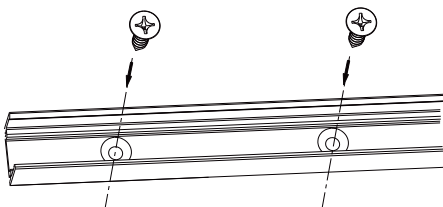
Caution

- Read the installation instructions carefully before installation.
- The cutting marks are printed on the PCB. Cut only at the designated cutting marks.Ensure that the cutting is done correctly.
- For each connection point, apply 1 g of silicone adhesive to ensure proper waterproof and insulation protection.
- The adhesive and end caps are sold separately and available as optional accessory MSL-001, which is a kit containing 10 ml of silicone adhesive and 10 end caps.
- ★ Drying time: 30 minutes for surface drying; 4 hours before handling/moving is not recommended; 24 hours for complete curing.

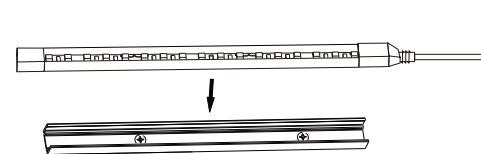
Aluminum Profile Installation MSL-0000-ALP

Installation Example

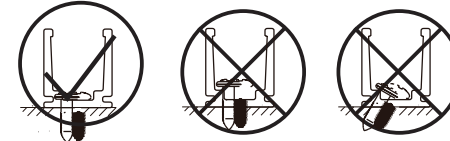
(1) Fix the aluminum profile



(2) Put strip into aluminum profile

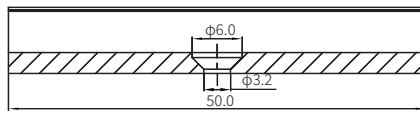


- This product includes cross-head screws (ST3*14).
- Mounting clip screws must be vertical to the mounting surface and firmly tightened, as illustrated on the right.

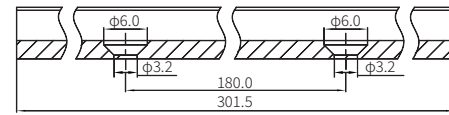


Installation Dimensions (Unit:mm)

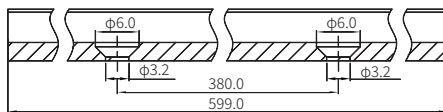
MSL-0050-ALP



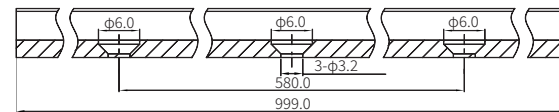
MSL-0300-ALP



MSL-0600-ALP

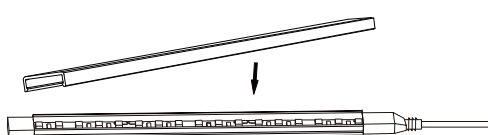


MSL-1000-ALP



Opal Cover Installation MSL-0000-MKC

Installation Example

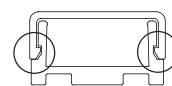


* The opal cover must be used with aluminum profiles.

Installation Dimensions (Unit:mm)

Length	Product	Length
	MSL-0300-MKC	301.5 ⁺⁰ _{-0.5}
	MSL-0600-MKC	599 ⁺⁰ _{-0.5}
	MSL-1000-MKC	999 ⁺⁰ _{-0.5}

- The clips of the opal cover must be snapped into the grooves of the aluminum profiles, as shown in the figure on the right.



6 Common Problems and Settle Methods

- Forbid to disassemble the strips and sharp objects keep away from the surface of the strips.
- Stay power off when install.
- Chemical solvent is not allowed.
- Ensure that the power cable can match the workload the strip to avoid adverse consequences caused by overheating.
- Before power supply, please confirm whether the power supply voltage meets the requirements and whether the line is installed correctly.
- Installation, repair and maintenance must be operated by professionals.

7 Specifications

Product	Rated voltage
MSL-02JSN-RGBC	DC 24 V (polarized)

(Note)

- Dimensions and specifications may change without notice due to continual product improvement.

PATLITE (CHINA) Corporation
www.midrangesignal.cn/

Room706-707, Baohua Internation Plaza,Lane.555,Guangzhong Road(West),Jing an District, Shanghai, China
Tel. 021-66308959 Fax. 021-66308938