


Color: 

## Features

- High efficacy 2835 LEDs;
- Special lens with 30\*40 °;
- Injection molding for water-proof;
- Cuttable between modules;

## Application

Suitable for guide signs depth of 8-10cm with width of 0.3-0.8m.

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## Installation

Fix by self adhesive tape or screws.

### Specifications

Model No.	MZ18-3
Color Temperature(K)	7060-7600
Beam Angle(°)	30*40
Luminous Flux(lm/PCS)	128
Ra	≥80
Efficacy(lm/W)	85
Voltage(V DC)	12
Power(W)	1.5
Standard Connection Quantity (PCS)	20
Single Ended Max Connection Quantity(PCS)	20
Working Temperature	-25~+60
Storage Temperature	-25~+70

#### NOTE:

Test environment temperature : 25±2°C.

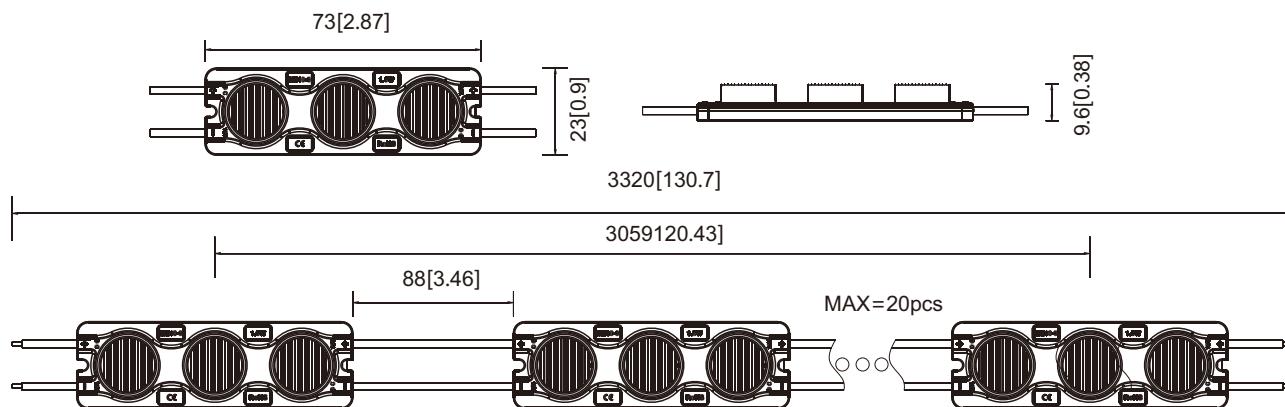
The above data is typical values. The actual data of each single product may differ from the typical values. The data is subject to change without notice.

Luminous flux is tested when lighting on with the single color.

Different color temperature will make luminous flux different.

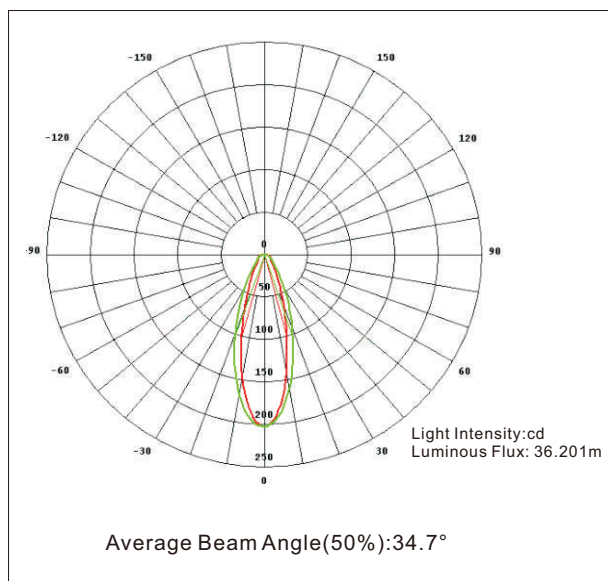
## Profile Drawing

Unit mm[inch]



Please ask the sales for detail drawing.

## Average Beam Angle



## Average Illumination

FLUX OUTPUT:36.20lm

10cm	14016,20228lx	5.47cm
20cm	3504,5057lx	10.94cm
30cm	1557,2248lx	16.41cm
40cm	876.0,12641x	21.88cm
50cm	560.6,809.1lx	27.35cm
60cm	389.3,561.9lx	32.82cm
70cm	286.0,412.8lx	38.29cm
80cm	219.0,316.1lx	43.76cm

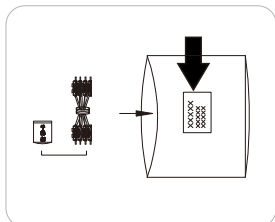
Height Eavg, Emax Beam Angle: 118.89° Diameter

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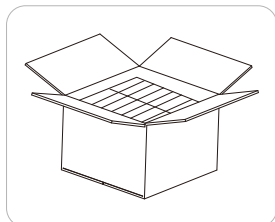
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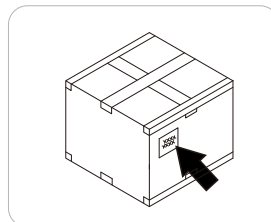
## Packaging



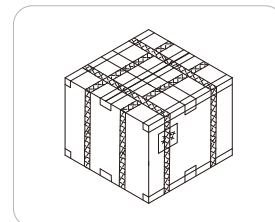
① Put product and desiccant together into static shielding bag and label the bag



② Put the sealed product into the box



③ Seal and label the box



④ Use packing belt to pack. Add edge protectors if necessary.

## Packaging Information

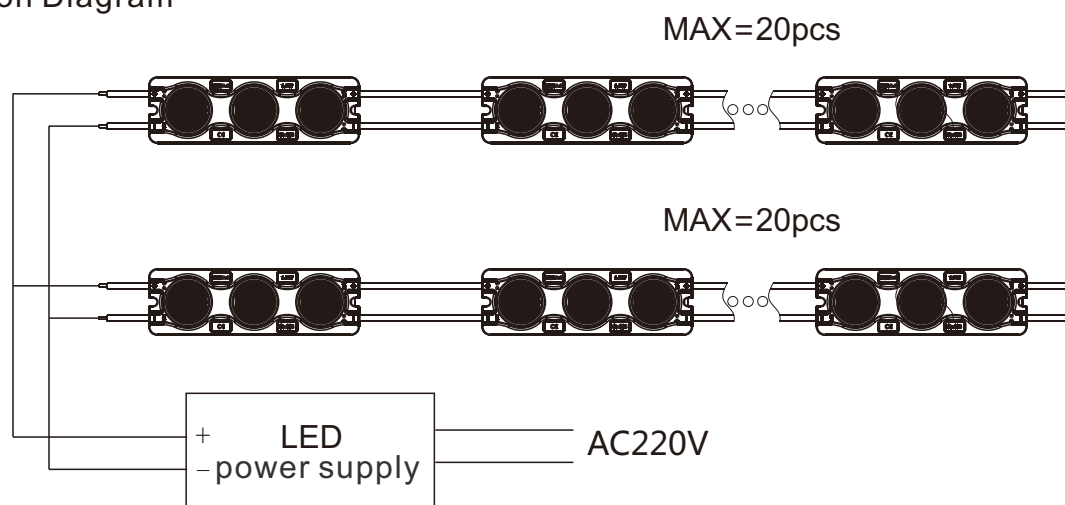
Model No.	Product Size(mm)	Carton Size(mm)	Total Quantity(PCS)	Net Weight(kg)	Gross Weight(kg)
MZ18-3	73*23*9.6	550*400*340	1000	16.20(1±10%)	17.90(1±10%)

20PCS per string, 2 strings packed in a static shielding bag, and 25 bags per carton case.

Note: The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

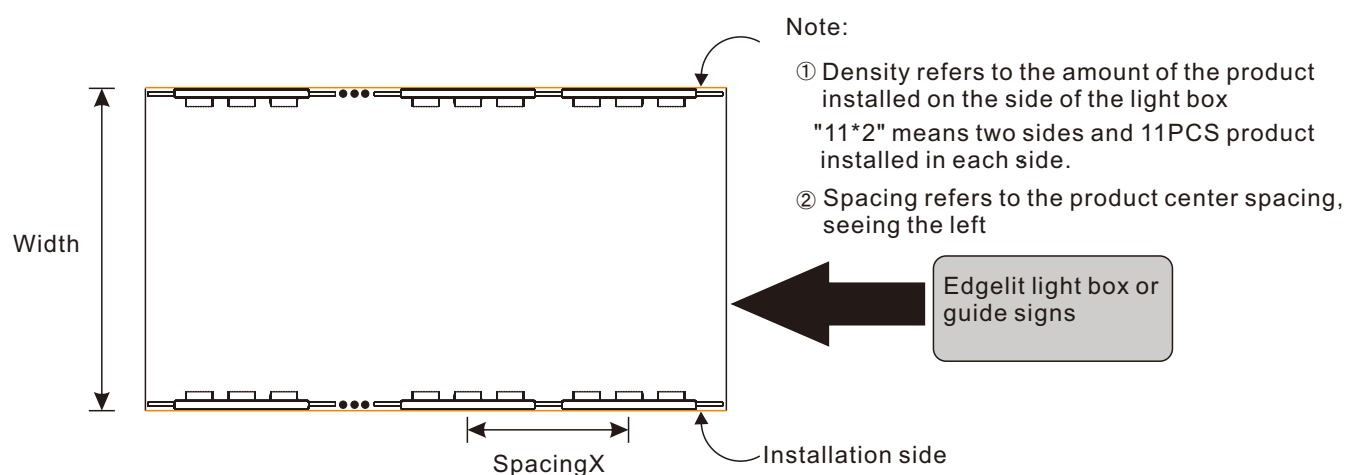
## Installation

### Connection Diagram



## Installation Reference

Model No.	Light Box	Surface Material	Width cm	Depth(H) cm	Illumination Lux	Density PCS/m	Spacing(Y) cm	Visual effects
MZ18-3	Double-sided light box	White non weaving canvas	30	8	2980-3150	11*2	8.5	OK
			30	10	2780-2970	11*2	8.5	OK
			50	8	1790-2450	11*2	8.5	OK
			50	10	1610-2270	11*2	8.5	OK
			60	8	1360-2140	11*2	8.5	OK
			60	10	1160-1950	11*2	8.5	OK
			80	8	780-1840	11*2	8.5	OK
			80	10	570-1620	11*2	8.5	OK



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## Accessories & Tools



MZ18



Diagonal pliers



Connection terminal



M3 Self-tapping screw

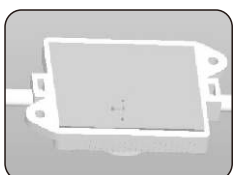


Electric Drill

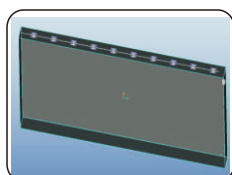
## Installation steps



01 Clean the mounting surface;



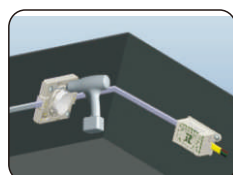
02 Peel away the self adhesive tape on the rear of led modules;



03 Evenly arrange the led modules with appropriately space. Pay attention to the corner of the light box



04 If the modules need to be connected, please connect firmly. The thread should have insulation, waterproof and anti-corrosive treatment;



05 Check the line to ensure correct connection, then power on for self-test. Fix the led modules with screws if no problem.

## Attentions in installation

- 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 led module 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 insulation, waterproof and anti-corrosive treatment.

## Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Supply electricity.
	Automatic power protection from the open or short circuit in output of the power supply.	Fix the short circuit problem.
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Check the power supply system to fix it.
	Power supply line error.	
	Mistaken wire connection of some of products	
Brightness of LED is inconsistent or insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure led module working voltage within $\pm 5\%$ of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of LED modules.	Reduce the quantities of LED modules in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Switching power supply failure	Replace a new power supply.
	Wrong Installation or use of products	Please follow the instructions



- 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.
- Treatment 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 (0.75mm<sup>2</sup>) 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 as backlight of 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.

## Statements and Recycling

### Statements:

Repair should be operated by a qualified technician, 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.

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