![LEDYI logo]

SPECIFICATION

Linkable and Modular LED Linear light

ETL
INTERTEK
C LISTED US
CM
5000906

SGS

TÜV Rheinland®

# Linkable and Modular LED Linear light

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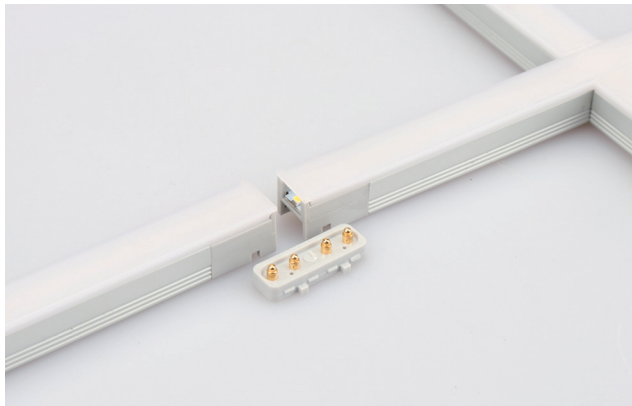
Description

Fast connected LED linear light module for indoor linear auxiliary lighting, widely used in jewelry cabinets ,supermarket shelves ,commodity display cabinets, indoor furniture and other.

1. Modularized ultra-thin and narrow linear light
2. Fast connection without dark area ,no soldering.
3. Super long 6M connection, no brightness attenuation
4. Can provide a variety of lengths, corners and accessories;
5. A variety of installation methods ,including fixed clips, magnetic fixed clips and angle fixed clips.

CE RoHS 3~5 Y Warranty
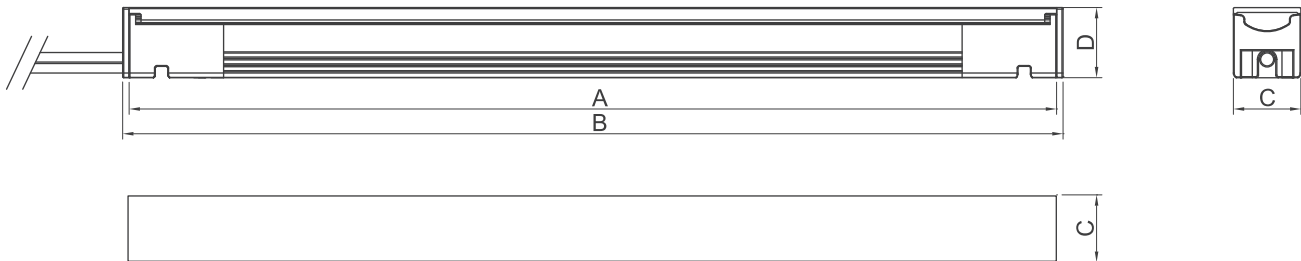
Dimensions

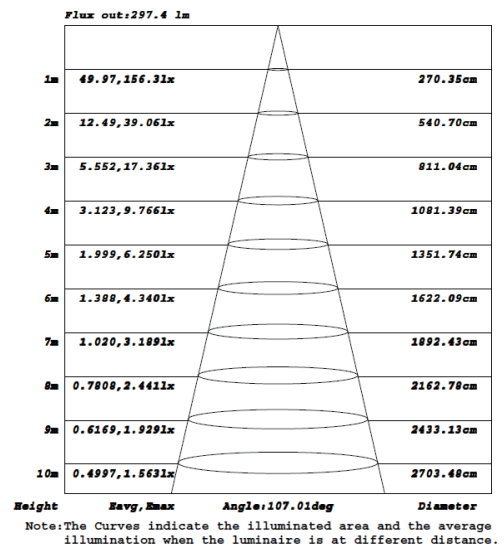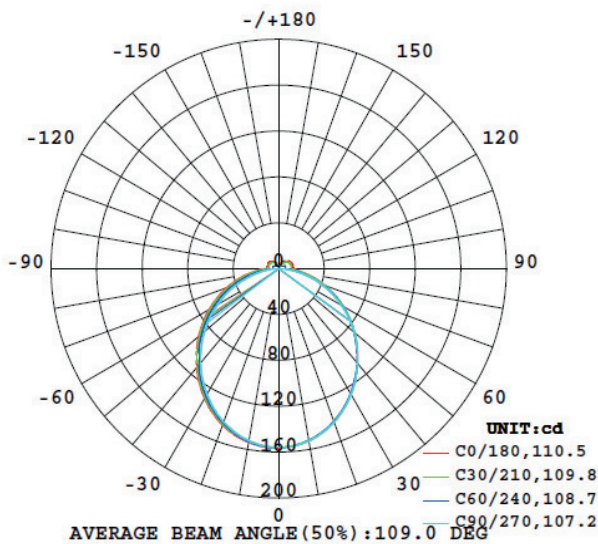| Item No.	Dimension	A	B	C	D
LM1213B-100	L100xW12.5xH13mm (L3.94xW0.49xH0.51in)	100mm (3.94in)	103mm (4.05in)	12.5mm (0.49in)	13mm (0.51in)
LM1213B-200	L200xW12.5xH13mm (L7.87xW0.49xH0.51in)	200mm (7.87in)	203mm (7.99in)		
LM1213B-500	L200xW12.5xH13mm (L19.68xW0.49xH0.51in)	500mm (19.68in)	503mm (19.8in)		

Parameters (Single color)

Item No.	Power	Lumen (@4000k)	CCT	Remark
LM1213B-100	1.5w/pcs	100lm/pcs	2700K 3000K 3500K 4000K 6000K	Voltage DC24V Color rendering index Ra>90 The luminous Angle is 120° Working environment −25~45℃ Life span 40,000 hours 70% Waterproof grade IP20 Class III protection
LM1213B-200	3w/pcs	190lm/pcs		
LM1213B-500	6w/pcs	480lm/pcs		
LM1213B-L100	3w/pcs	160lm/pcs		
LM1213B-N100	3w/pcs	150lm/pcs		
LM1213B-W100	2.4w/pcs	160lm/pcs		
LM1213B-X180	4.8w/pcs	320lm/pcs		
LM1213B-T180	3.6w/pcs	250lm/pcs		
LM1213B-R215	3w/pcs	180lm/pcs		

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Parameters (Tunable White color)

Item No.	Power	CCT	Lumen (@2700k)	Lumen (@4000k)	Lumen (@6000k)	Remark
LM1213B-500-TW	6.5w/pcs	2700K + 6000K	385lm/pcs	405lm/pcs	445lm/pcs	Voltage DC24V Color rendering index Ra>90 The luminous Angle is 120° Working environment -25~45℃ Life span 40,000 hours 70% Waterproof grade IP20 Class III protection
LM1213B-L100-TW	2.5w/pcs		150lm/pcs	160lm/pcs	165lm/pcs	
LM1213B-N100-TW	2.3w/pcs		125lm/pcs	130lm/pcs	140lm/pcs	
LM1213B-W100-TW	2.5w/pcs		150lm/pcs	155lm/pcs	165lm/pcs	
LM1213B-X180-TW	4.5w/pcs		265lm/pcs	280lm/pcs	295lm/pcs	
LM1213B-T180-TW	3.4w/pcs		200lm/pcs	210lm/pcs	220lm/pcs	
LM1213B-R215-TW	2.2w/pcs		130lm/pcs	140lm/pcs	145lm/pcs	

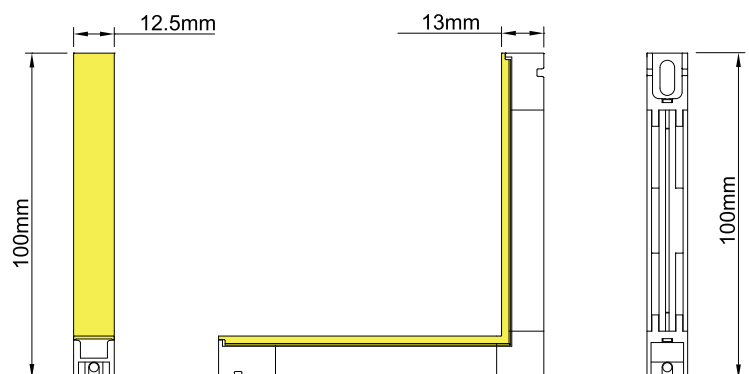## Distribution Curve (Data base on LM1213B-500 4000K CRI90)

UNIT:cd
C0/180,110.5
C30/210,109.8
C60/240,108.7
C90/270,107.2

AVERAGE BEAM ANGLE(50%):109.0 DEG

Flux out:297.4 lm

	Eavg, Emax		Diameter
1m	49.97,156.31x		270.35cm
2m	12.49,39.061x		540.70cm
3m	5.552,17.361x		811.04cm
4m	3.123,9.7661x		1081.39cm
5m	1.999,6.2501x		1351.74cm
6m	1.388,4.3401x		1622.09cm
7m	1.020,3.1891x		1892.43cm
8m	0.7808,2.4411x		2162.78cm
9m	0.6169,1.9291x		2433.13cm
10m	0.4997,1.5631x		2703.48cm

Height   Eavg, Emax   Angle:107.01deg   Diameter

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Modular Dimension

13mm

12.5mm

100mm

100mm

LM1213B-L100/LM1213B-L100-TW

12.5mm   13mm

100mm   100mm

LM1213B-N100/LM1213B-N100-TW

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LM1213B-W100/LM1213B-W100-TW

12.5mm
100mm
13mm
100mm

LM1213B-X180/LM1213B-X180-TW

180mm
12.5mm
180mm
13mm

LM1213B-T180/LM1213B-T180-TW

180mm
12.5mm
96.3mm
13mm

LM1213B-R215/LM1213B-R215-TW

12.5mm
13mm
215mm

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UV Modular

UV Modular Introduction

LED UV germicidal lamp can be used for daily disinfection of wardrobes, cabinets, jewelry showcases, supermarket shelves, etc. The whole lamp adopts UVA + UVC. LED light source kills bacteria up to 99.9%, and is compatible with the LED modularized linear light to achieve the the integration of lighting and disinfection;

1. Modularized ultra-thin and ultra-narrow design, quick soldering-free connection between the sterilization lamp and the lighting lamp to realize the integration of lighting and disinfection;
2. The UVA + UVC LED light source can efficiently kill germs, and the killing rate of Escherichia coli, Staphylococcus aureus and Candida albicans can reach 99.9%;
3. Various installation methods, including fixed base and magnetic fixation;
4. Can be quickly connected with a variety of the lighting modules to meet the requirements of personalized lighting sterilization.
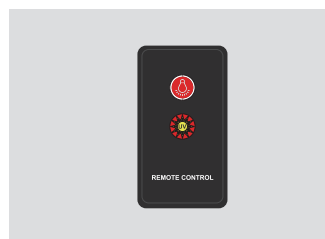
UC Modular Detail

| UVC RF Controller | LED UV Germicidal lamp | Lighting lamp | Remote control |

UVC RF Controller

Warnning: please make sure the controller connected correctly, otherwise controller will be damaged!!
1. Input of controller connect with the driver, output of controller connect to the light
2. White cable connect to negative of driver, Gray cable connect to positive of driver.

Germicidal Mode

Click the disinfection button of the controller,the lighting lamp turn off,the germicidal lamp turn on and automatically turn off after working for 15 minutes.
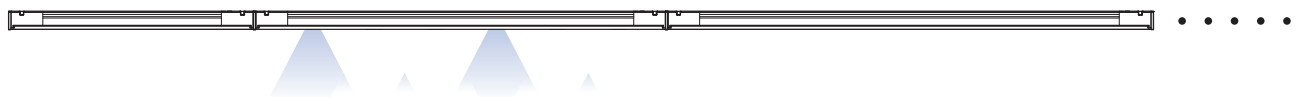
Lighting Mode

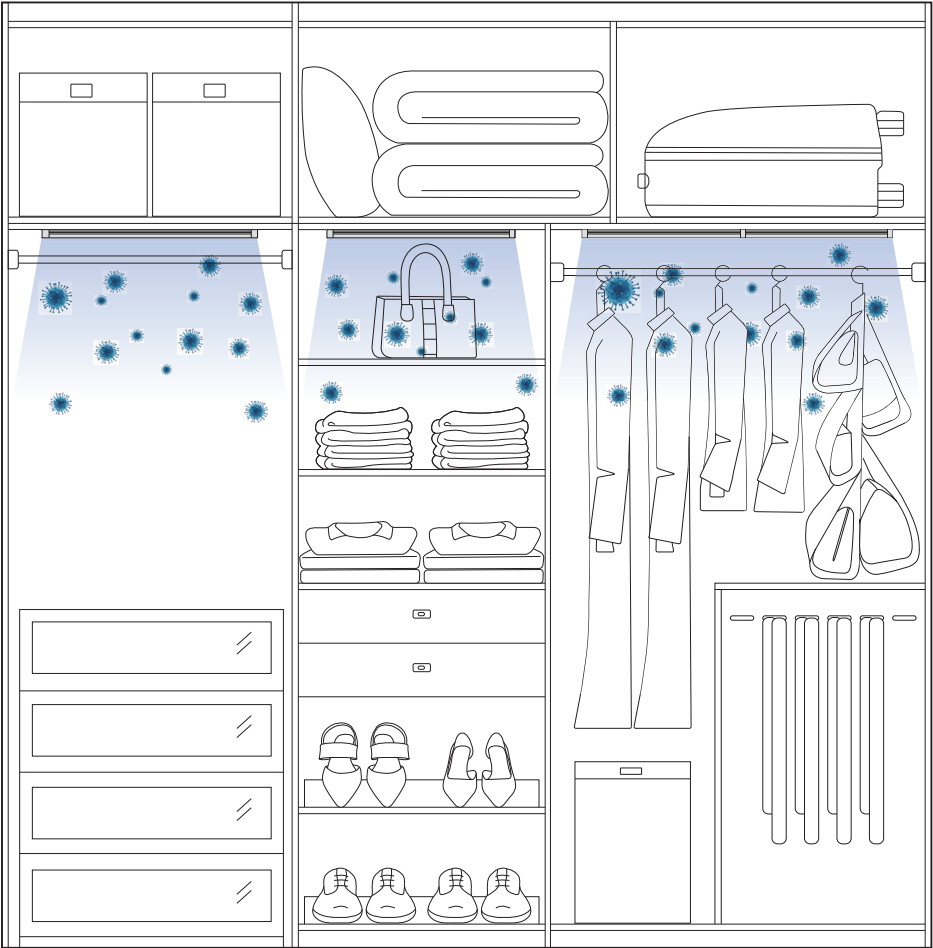Click the lighting button of the controller,the lighting lamp is turned on,the germicidal lamp is turned off
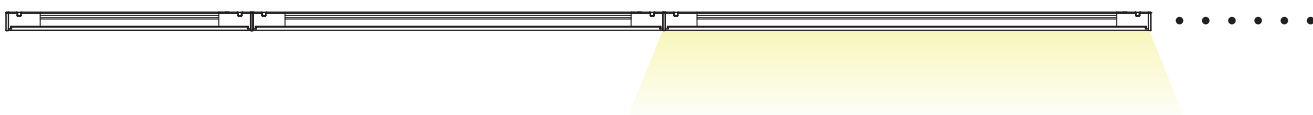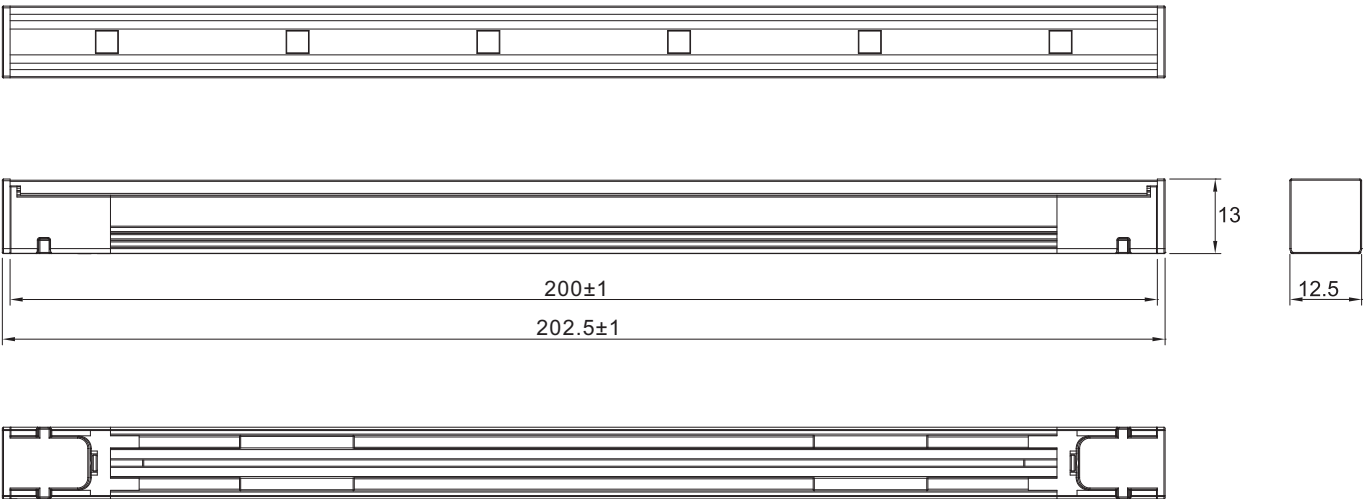
UV Modular Parameters

Item No	LM1213B-200UVC		Bacteria killing rate (irradiate 15min at a distance of 20cm)		99.90%
Voltage	DC24V		Life span		10000H
Power	3W		Working environment		-25~45℃
LED Source	UVA+UVC		Waterproof grade		IP20
UV Wavelength	275nm+405nm		Protection grade		III

UV Modular Application

LED UV germicidal lamp can be used for daily disinfection of wardrobes, cabinets, jewelry showcases, supermarket shelves, etc. The whole lamp adopts UVA + UVC. LED light source kills bacteria up to 99.9%, and is compatible with the LED modularized linear light to achieve the the integration of lighting and disinfection.

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UV Modular Dimension(mm)

13

200±1

202.5±1

12.5

UCV RF Controller

INPUT DC24V MAX100W | **|||** **UVC RF CONTROLLER** | **OUTPUT**

13

92±0.5

94±0.5

12.5
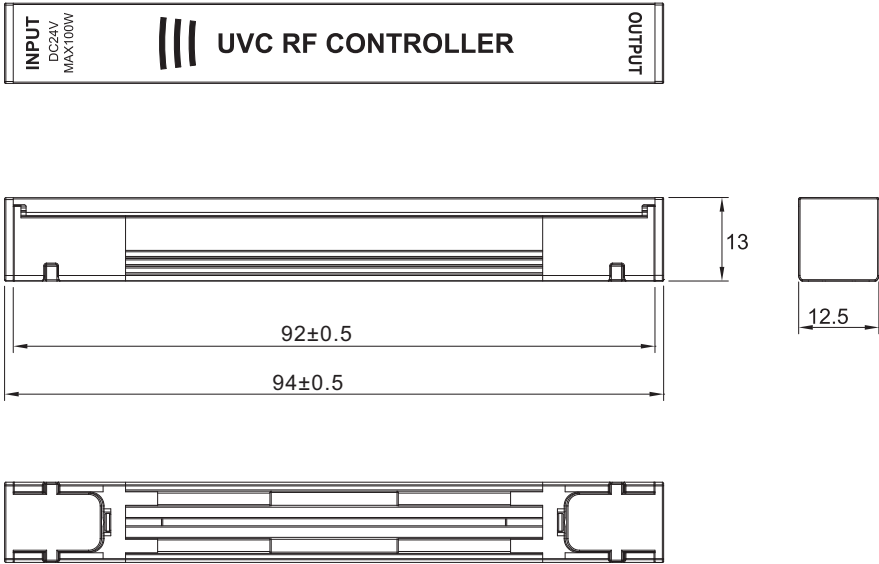
Accessories
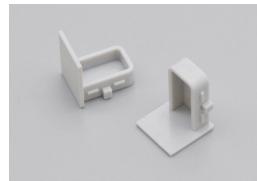

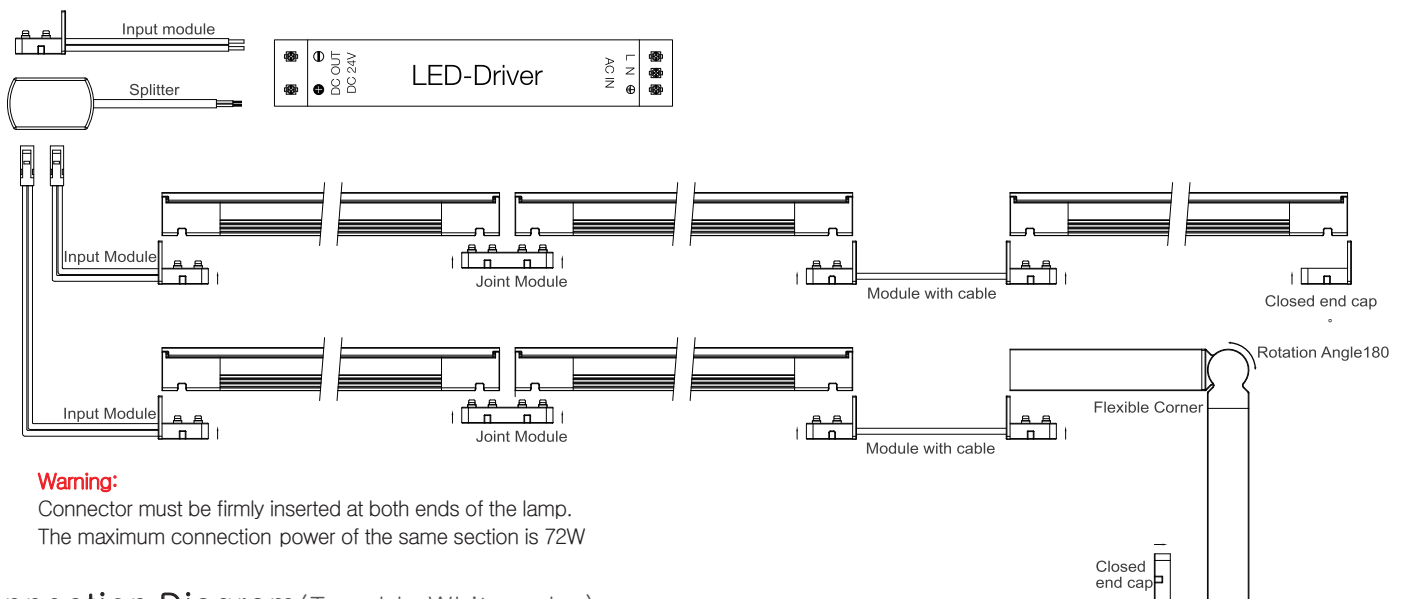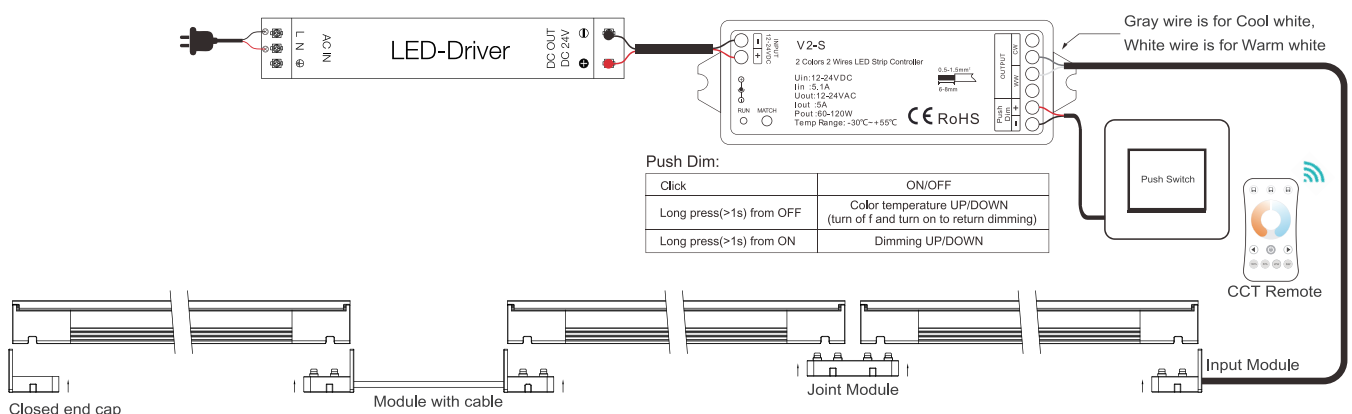| Magnetic Fixed Base | Fixed base | Angle Fixed base | Shading End Cap | Joint Connector 1 |
| Joint Connector 2 | Input Connector 1 | Input Connector 2 | Input Connector 3 | Input Connector 4 |
| Joint Connector 5 | Splitter 1 | Splitter 2 | Power supply | UCV RF Controller + Remote |

Note: There have more power supply for your choose ,include input connector's wire length.
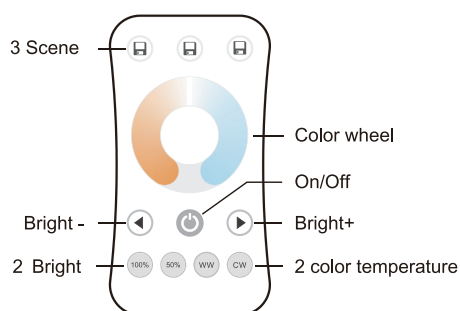
Connection Diagram (Single color)

Input module

Splitter

LED-Driver

DC OUT
DC 24V

AC IN
L N

Input Module

Joint Module

Module with cable

Closed end cap

Input Module

Joint Module

Module with cable

Flexible Corner

Rotation Angle180

Closed end cap

Warning:
Connector must be firmly inserted at both ends of the lamp.
The maximum connection power of the same section is 72W

Connection Diagram (Tunable White color)

AC IN
L N

LED-Driver

DC OUT
DC 24V

V2-S
2 Colors 2 Wires LED Strip Controller

Uin:12-24V DC
Iin :5.1A
Uout:12-24VAC
Iout :5A
Pout:60-120W
Temp Range:-30℃~+55℃

RUN   MATCH

Push Dim

0.5-1.5mm²
6-8mm

OUTPUT

RoHS

Gray wire is for Cool white,
White wire is for Warm white

Push Switch

CCT Remote

Input Module

Push Dim:

Click	ON/OFF
Long press(>1s) from OFF	Color temperature UP/DOWN (turn of f and turn on to return dimming)
Long press(>1s) from ON	Dimming UP/DOWN

Closed end cap

Module with cable

Joint Module

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Key Function

- 3 Scene
- Color wheel
- On/Off
- Bright -
- Bright+
- 2 Bright
- 2 color temperature

- On/Off: Turn on/off light.
- Color wheel: Touch to change color temperature.
- Bright+/−: Adjust brightness, short press 10 levels, long press 1−6s for continuous 256 levels adjustm 100% ,50%: Get 100% or 50% brightness directly.
- WW: Get warm white directly.
- NW: Get cool white directly.
- 3 Scene: Short press recall the scene, long press 2s save the current color into the scene. the L .ED indicator will light up longer when save OK.

Attention:

1. It is strictly prohibited to install with power on and modify or damage the internal circuits and components of the product without permission
2. Make sure that all the connection are correct before turning on.
3. Avoid scratching or bending during installation, which may damage it.
4. The maximum connection power of one section can't exceed 72W to prevent the defect problem of overload and non uniform luminous effect
5. Don't stare at the product for too long time ,it may let you uncomfortable
6. Installation, disassembly and maintenance are performed by professional.
7. Clean the luminaire with only a soft cloth, when there have stubborn dirt, please use soft cloth and neutral detergent to clean. Reminder: please do not wash with alcohol or thinner
8. Only strictly following the installation instructions can ensure the product's safety performance, so please keep the instructions.
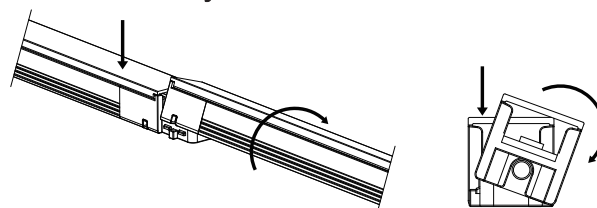
Disassembly Module

Disassembly of the input module
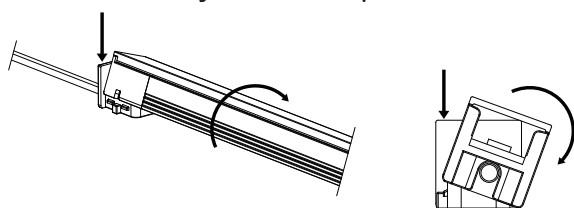
Fix the input module by hand, and turn the lamp body in the direction of the arrow in the figure with the other hand to remove the input module
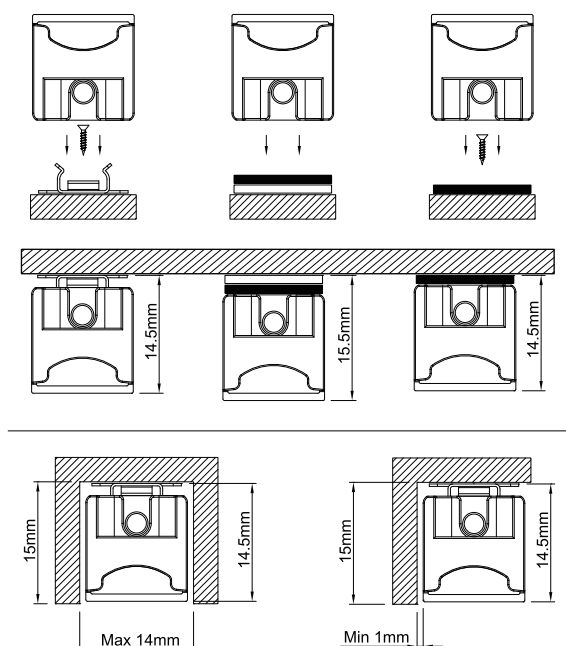
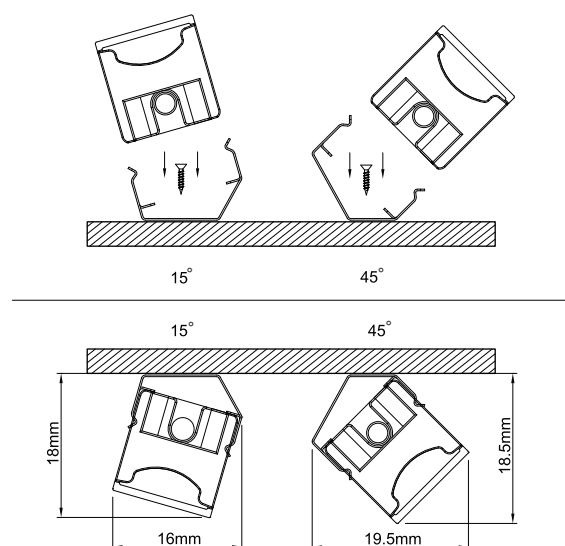### Disassembly of the connection module

Fix the lamp body on one side by hand, and turn the lamp body on the other side in the direction of the arrow in the figure with the other hand to remove the connection module
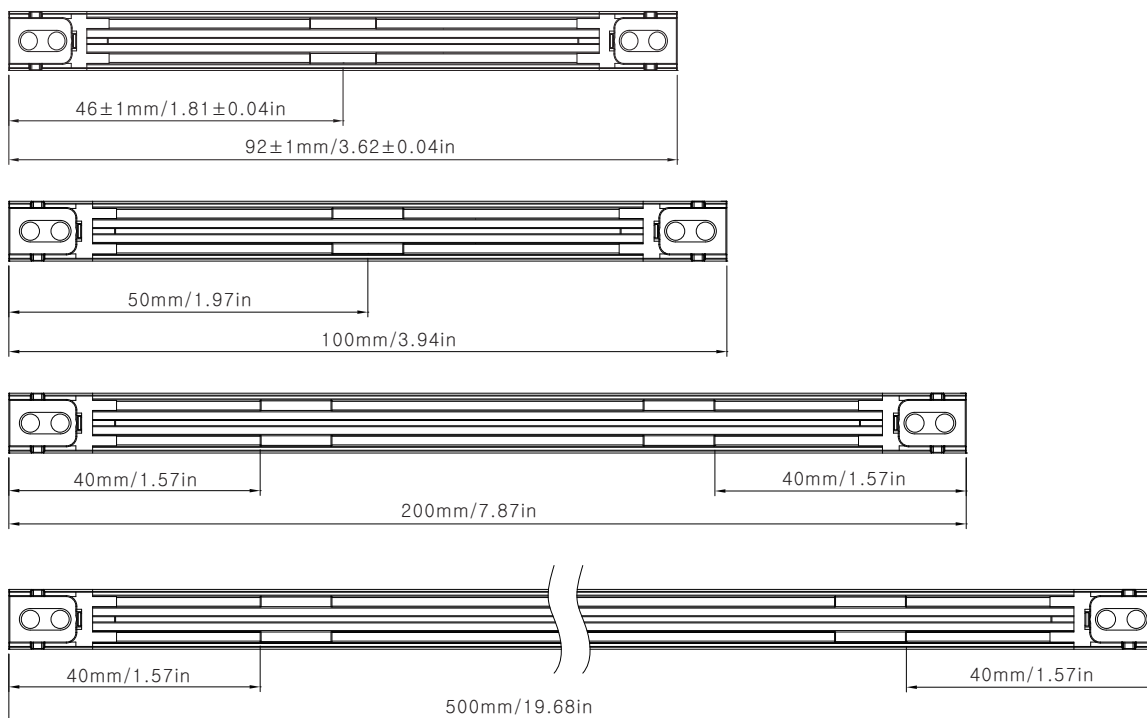
Installation

Standard Installation

14.5mm
15.5mm
14.5mm

15mm
14.5mm
15mm
14.5mm

Max 14mm
Min 1mm

Angle Installation

15°   45°
15°   45°

18mm   18.5mm
16mm   19.5mm

Connection Diagram

Magnetic Fixed Base's Installation Position

46±1mm/1.81±0.04in
92±1mm/3.62±0.04in

50mm/1.97in
100mm/3.94in

40mm/1.57in
200mm/7.87in
40mm/1.57in

40mm/1.57in
500mm/19.68in
40mm/1.57in

Fixed Base's Installation Position

92±1mm/3.62±0.04in
46±2mm/1.81±0.078in

100mm/3.94in
50mm/1.97in

200mm/7.87in
50mm/1.97in
50mm/1.97in

500mm/19.68in
50mm/1.97in
50mm/1.97in

Linkable and Modular LED Linear light
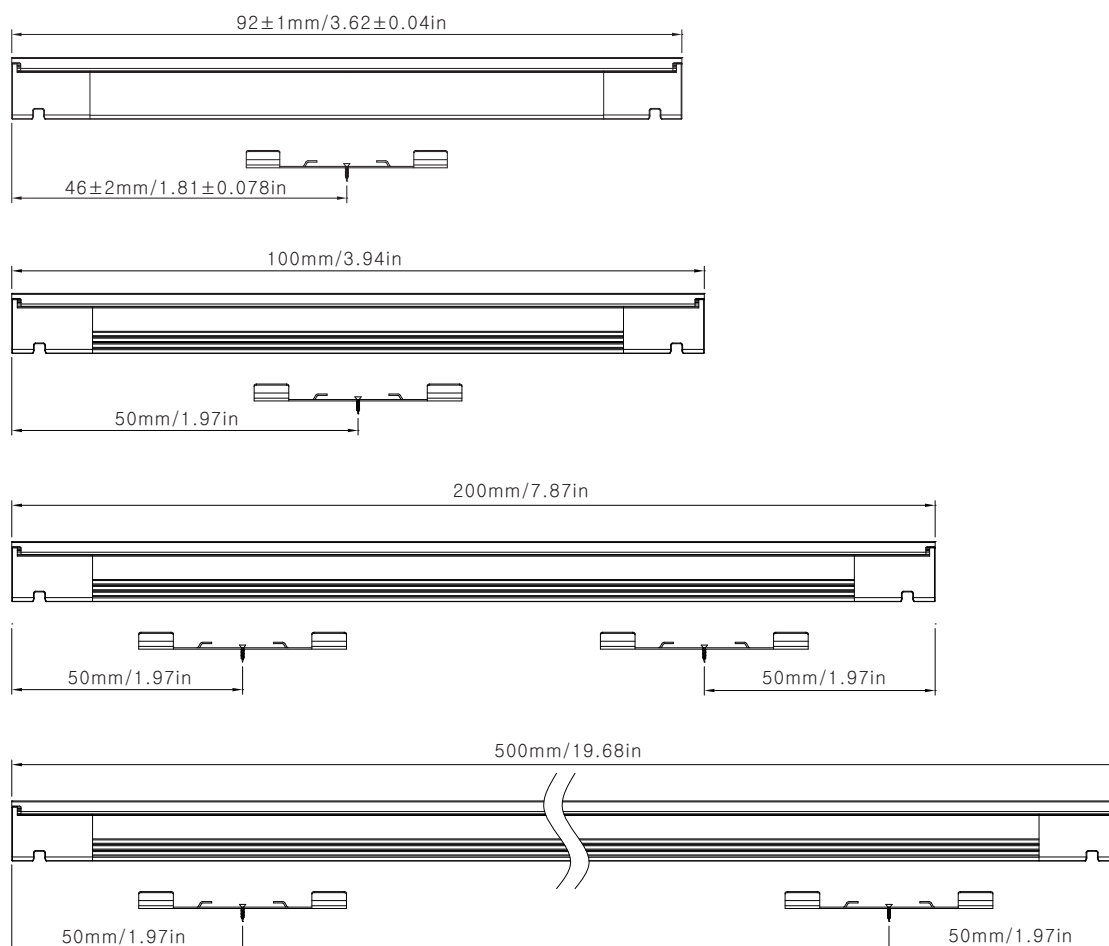
Packing information
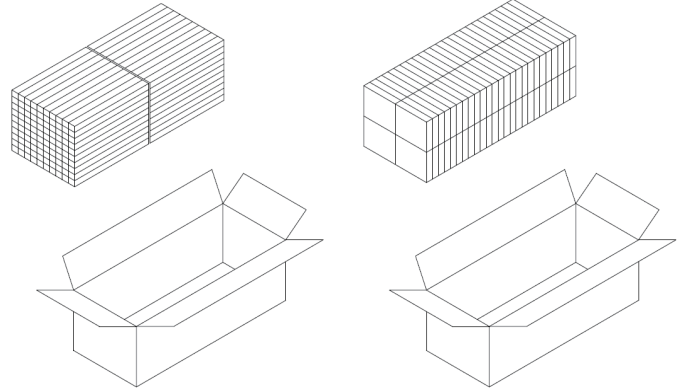
Packing list

Item No.	Dimension	N.W/pcs	G.W/pcs	QTY/CTN	Carton Size	N.W/CTN	G.W/CTN
LM1213B-100	L100xW12 5xH13mm	20g	38g	200pcs	L388xW165xH165mm	7.6kg	7.87kg
LM1213B-200	L200xW12.5xH13mm	40g	68g	200pcs	L588xW1 65xH165mm	13.6kg	13.9kg
LM1213B-500 LM1213B-500-TW	L500xW12.5xH13mm	98g	136g	100pcs	L618xW1 65xH165mm	13.6kg	13.9kg
LM1213B-L100 LM1213B-L100-TW	L100xW100xH13mm	40g	55g	100pcs	L368xW225xH225mm	5.5kg	5.68kg
LM1213B-N100 LM1213B-N100-TW	L100xW100xH12.5mm	400	55g	100pcs	L368xW225xH225mm	5.5kq	5.68kg
LM1213B-W100 LM1213B-W100-TW	L100xW100xH12. 5mm	40g	55g	10opcs	L368xW225xH225mm	5.5kg	5.68kg
LM1213B-X180 LM1213B-X180-TW	L1 80xW180xH13mm	85g	105g	100pcs	L368xW295xH295mm	10.5kg	10.7kg
LM1213B-T180 LM1213B-T180-TW	L180xW96.3xH13mm	62g	90g	100pcs	L368xW385xH215mm	9kg	9.19kg
LM1213B-R215 LM1213B-R215-TW	L215xW12.5xH13mm	48g	69g	200pcs	L618xW165xH165mm	13.8kg	14kg
LM1213B-200-UVC	L200xW12.5xH13mm	39.5g	66g	200pcs	L588xW165xH165mm	13.4kg	13.8kg
LM1213B-092-C	L92xW12.5xH13mm	19g	39g	100pcs	L368xW225xH225mm	3.9kg	4.15kg