




Luci SHIN nano line

instruction Manual

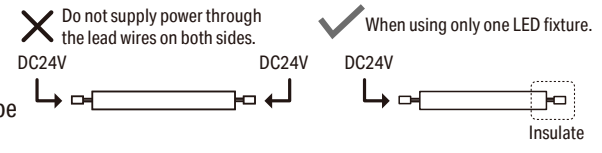
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⚠ To ensure safe usage


The following are the safety cautions to prevent any harm or damage to others.
If the product is used inappropriately, it may cause damage, electric shock, smoke or fire.





Only supply power through the lead wire on one side using the dedicated connection cable for this product.
Supplying power through the lead wires on both sides may cause failure and fire.
If using only one light fixture, insulate the unused connector with self-adhesive tape or electrical tape.




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Use a DC24 V power supply.
Never connect to any other power supply.
Always use a circuit breaker of suitable capacity in the power supply.
If the capacity is not suitable, the breaker may not work when abnormal current occurs, which may cause fire.
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Always shut off the main power supply before working or inspection.
Do not connect or disconnect the lead wires of the light fixture while power is supplied.
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Firmly connect the connectors.
Incomplete connection may cause heating, smoke, and fire.
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Do not touch the ends of the connectors. Risk of electrical shock.
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The product must be allowed to dissipate heat.
Allow sufficient space for ventilation (heat dissipation) between the light fixture and building structure.
Avoid installing the light fixture close to each other. It may shorten product life or cause fire.



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When there is abnormal situations, please cut off the power immediately, consult with electricians, and do not touch the lighting with bare hands.
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Do not place or cover the light fixture with a flammable object such as cloth, paper or insulating material.
It may fail to light up or cause fire.
Do not allow an open-ended fixture to have contact with any metal.
Do not place or install light fixture in close contact with other electric equipment in or out of ceiling area to prevent fall, electric shock or fire caused by vibration from electric equipment.
Do not handle the light fixture with wet hands. It may result in an electric shock.
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Do not use the product if the cover is damaged.
Risk of an accident and electrical shock.
- 


Do not use a brush or an abrasive product to polish metal parts.
Risk of damage and corrosion.
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If the product is dirty, wipe with a dry cloth.
Do not use thinner, benzene, or other organic solvents to clean the product, and do not wash with water.
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Important notice for storage
Please ensure the fixture is stored within -10°C to 55°C
Please do not store the carton or the packages of our light fittings in the following conditions:
- wet location
- places of high humidity
- places with much litter or dust
- places of exposing against sun light directly
- places which a solvent such as a paint liquid is stored.

During storage ensure the cartons upright.
Please do not open individual package until just before installing light fixture to avoid any damage to the light fittings.

Please do not place heavy object on the carton.
Please do not use our light fixture as the working light during construction period.
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This light fitting is for indoor use only.
Do not use in the following environments:
Outdoors
- Location at high temperature (+35°C or higher)
(Operating temperature is 0°C to 35°C.
- Location where water may splash onto the product.
- Location with high humidity.
- A dusty location.
- Location with corrosive or inflammable gases.
- Airtight location.
- Location with direct exposure to salt water or organic solvents
- Location in direct sunlight.
- Location subject to the effects of electric or magnetic fields.
- Location subject to intense vibration or shock, or a location subject to continuous vibration.
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Do not do the following :
- Forcibly remove the product after mounting it.
- Disassemble, modify, or add holes to the product.
- Forcibly pull or twist the product.
- Cut or damage the power cable. Use a damaged cable.
- Press down on the product.
- Drop the product or subject the product to intense vibration or shock.

Please read before the usage

- The product has been manufactured with the utmost care; however, please understand that slight deviations in LED color are unavoidable due to the characteristics of the LED.
- To mount in the light fixture, use mounting clips (Accessories) and check the mounting clip is securely fixed.

Caution : Must choose suitable power supply

Refer to the power supply manual for temperature, humidity and other operating conditions.

Maintenance and Inspection

- Light fixture has a life span.
- Degradation of inner materials occurs after 8-10 years of installation even when the light fixture looks fine from the outside.
Components of the light fixture degrade due to the generation of heat when the light is on for a long time.
This causes not only safety issues, but also reduces power efficiency and it is recommended to have regular maintenance and inspection.
- Cleaning and inspection should be carried out at least once every 6 months.
- At least once every 3 years, an inspection should be carried out by a specialist such as a product contractor.
- If the light fixture is used for a long time without having an inspection, there is a small possibility that it could lead to fuming, igniting, electric shock and the like.

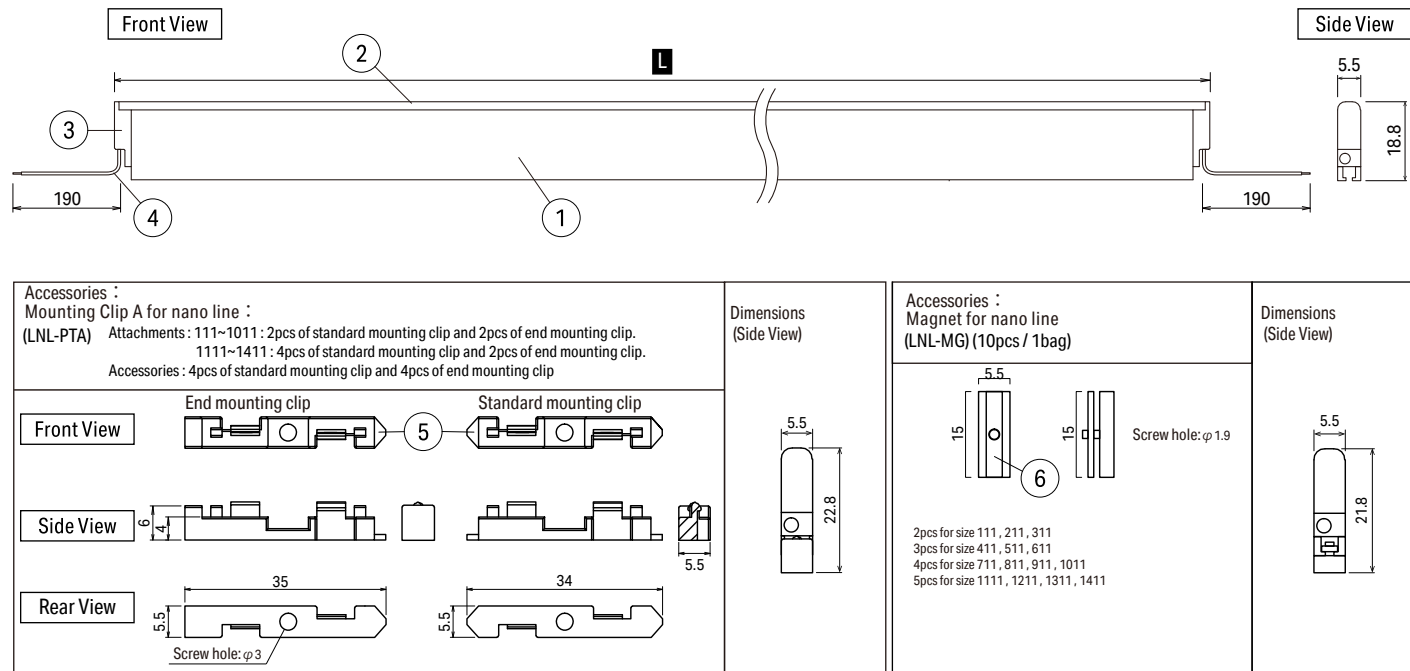
Inspection Methods

- Is LED operating normally?
- Is there any unusual smell, sound or heat?
- Are there cracks, slits, or detached parts on any part or joint?

Cleaning Method

- Lightly wipe the light fixture with a soft cloth.
- To best clean the light fixture, wipe dirt with a soft cloth which has been soaked in a neutral detergent diluted with water and squeeze firmly. To finish off, wipe it with a damp cloth and dry it.

Product specification ※unit of measurement



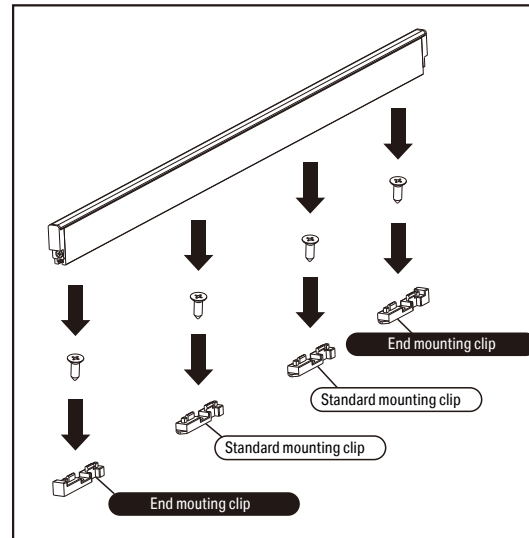
Input voltage
DC24V

No	Item	Name Material etc.
①	Body	Silver
②	Body cover	Diffuser
③	Side cover	Diffuser
④	Lead wire	UL1007 AWG26, black+, white-
⑤	Mounting Clip A	Clear
⑥	Magnet	Plate, Magnet

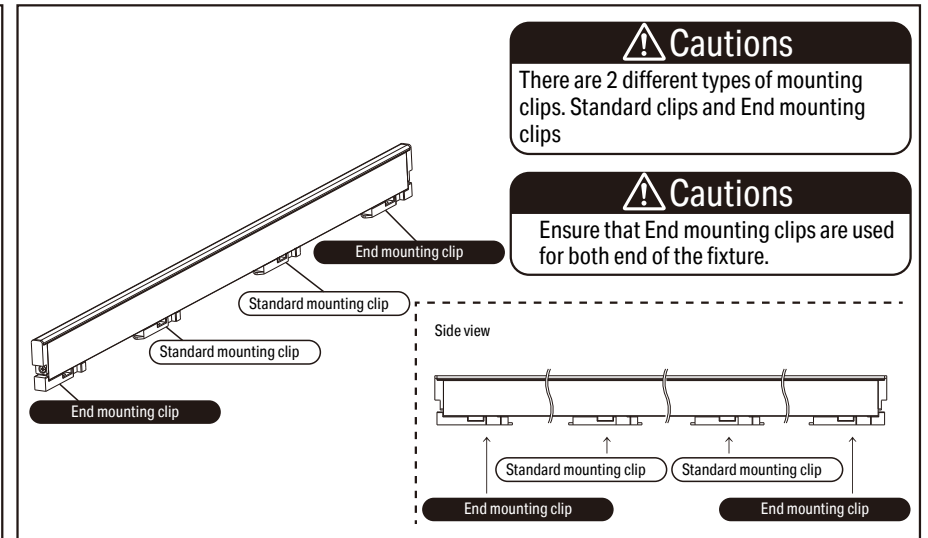
Item / Product Name	Luci SHIN nano line			
Model No.	LNLy- *- *-DF-I-2	LNLy- *- *-DF-I-4	LNLy- *- *-DF-I-6	LNLy- *- *-DF-I-10
Wattage	2.1 W / m	4.2 W / m	6.4 W / m	10.8 W / m
Input Voltage	24 V			
Number of LEDs	140 LED / m			
Weight	160 g / m			
Environment	Indoors (No condensation)			
Operating temperature	0°C~ +35°C (No condensation)			
Max. length per circuit	5m			
Material (Body)	Aluminum , Polycarbonate			
Attachment	Mounting Clip A (2pcs of standard mounting clip and 2pcs of end mounting clip.)			
Accessories	Mounting Clip A, Magnet			
Light source color (*)	Day light(D), Natural white(N), White(W), Warm white 3500K(WW), Warm white 3000K(L30), Warm white 2700K(L27), Warm white 2500K(L25), Warm white 2200K(L22), Warm white L2000K(L20), Warm white 1800K(L18)			
Dimmable	Yes (0-10V/1-10V, DMX, DALI, PWM, Casambi)			

Installing the product

A Horizontal installation



- ① install the standard and end mounting clips with regular screws (not provided with our products)
Recommended screw: pan head screw M2.6

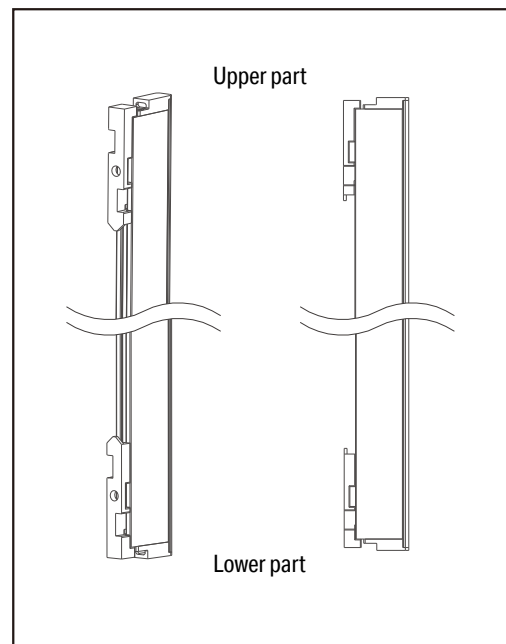


- ② Attach light fixture onto the mounting clips as shown above.
You should hear a snapping sound when attached.
Ensure that two mounting clips for the end section are installed at the end of the light fixture.

Mounting clipA Recommended number of clips for the installation

Mounting clip A	Lengths	111	211	311	411	511	611	711	811	911	1011	1111	1211	1311	1411
Attachments Mounthing clip	Standard : 2 End : 2	Standard : 2 End : 2	Standard : 2 End : 2	Standard : 2 End : 2	Standard : 2 End : 2	Standard : 2 End : 2	Standard : 2 End : 2	Standard : 2 End : 2	Standard : 2 End : 2	Standard : 2 End : 2	Standard : 2 End : 4	Standard : 4 End : 4	Standard : 4 End : 4	Standard : 4 End : 4	Standard : 4 End : 4
Standard mounthing clip	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
End mounthing clip	0	0	0	1	1	1	2	2	2	2	3	3	3	3	4
Magnet	2	2	2	3	3	3	4	4	4	4	5	5	5	5	6

B Vertical installation



For vertical installation, make sure the top and bottom of light fixture hook on the edge of the End mounting clips in accordance with diagram. (See Figure below).
If End mounting clip doesn't hook on fixture, light fixture might drop.
Please make sure cables from fixture not to come in contact when clipping on the light fixture.

Connecting to the power supply

Caution :
Must choose suitable power supply

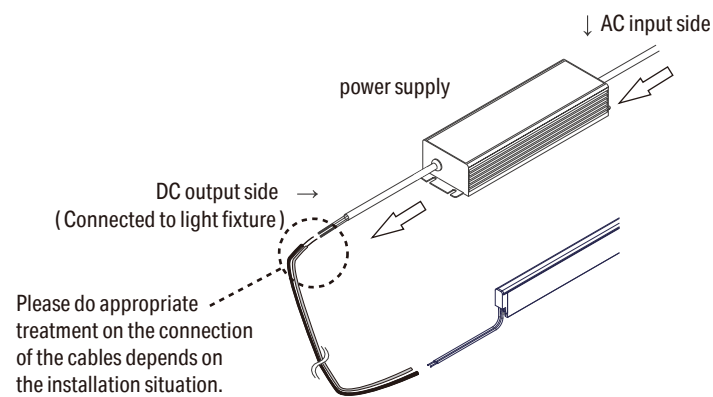
Refer to the power supply manual for temperature, humidity and other operating conditions.

- Cables used for connecting light fixtures and Power supply must be a suitable type and gauge.
- Cables should be joined with suitable terminal block or methods that is appropriate to the installation and operating environment.

Caution: When using thin dimension cable in long extended length, the resistance of cable will increase. Voltage drop and heat dissipating may occur and result in a drop in brightness.

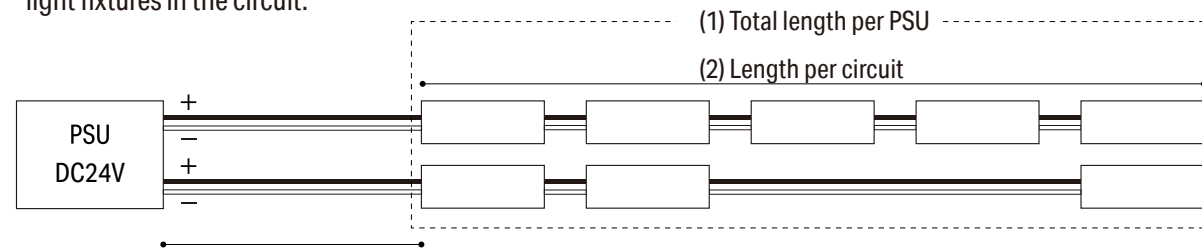
Caution: When separating one cable to multiple circuits in the same gauge, the current loading focuses on the junction of the branch circuit and high temperature will accumulate from there. Please consider the loading of the power supply (quantity of light fixture) and review the wiring system to avoid the above problem.

- When connecting the dimmer driver with power supply, unpredicted noise might occur. It is a characteristic of electronic devices, not a malfunction of the light fixture. Please choose an appropriate power supply and consider to have enough space to install. Reducing the loading factor of light fixture might improve the noise from the power supply while the noise for the light fixtures might be improved by splitting the circuit of light fixture into multiple.
- When you adjust the length of the power supply cable, please be careful not to damage the core wire.
- When the cable is bundled, heat dissipation becomes poor and the temperature becomes extremely high. When bundling 5 cables or more, connect less number of light fixtures for one cable.



System configuration diagram

1. Total product length per power supply depends on capacity of the power supply. Recommended loading factor is 70% (without dimming) or 60% (with dimming).
2. Product length per circuit shall not exceed maximum product length per circuit. If the product length per circuit exceeds the maximum, split into multiple circuits.
3. To minimize voltage drop, select appropriate wire gauge / diameter and consider the cable length between PSU and the beginning of luminaire referring to the following table. If longer cable distances are required, use thicker wires or reduce the loading of the light fixtures in the circuit.



(3) Cable length between PSU and the beginning of luminaire (m)

Model No.	Wattage	Cross section	0.3 sq	0.5 sq	0.75 sq
		Wire gauze	AWG 22	AWG 20	AWG 18
LNLY- * - * -DF-I-2	2.1 W / m	(2) Max. length per circuit	(3) Max. cable length between PSU and the beginning of luminaire at (2) Max. length per circuit		
LNLY- * - * -DF-I-4	4.2 W / m	5 m	15.5 m	25.0 m	39.0 m
LNLY- * - * -DF-I-6	6.4 W / m	5 m	7.8 m	12.5 m	20.0 m
LNLY- * - * -DF-I-10	10.8 W / m	5 m	5.1 m	8.2 m	13.0 m
			3.0 m	4.8 m	7.5 m

※The length of cable that can be connected varies depending on the voltage drop.