



Luci nano line Instruction Manual

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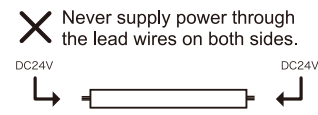
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Safety Cautions

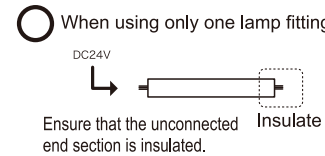
The following is the safety cautions to prevent any harms or damages to others.
If the product is used against cautions, it may cause damages: electrifications • smoke.

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 lamp fitting, insulate the unused lead with self-adhesive tape or vinyl tape.



Never supply power through the lead wires on both sides.



When using only one lamp fitting

Ensure that the unconnected end section is insulated.



Electrical work certificate is needed to install and inspect this product. Please ask electrician for the installation.



Please use DC24V power supply.
Do not use other power supplies such as AC220~240V.



Please turn off all the powers when installation and inspection.
Do not connect or disconnect the lead wires with its power on.



Firmly insert and connect the connectors.
Incomplete connection may cause heating, smoke, and fire.
If you do not connect the connector, Please use the end parts(accessory).
Do not touch the ends of the connectors. Risk of electrical shock.



Do not place a heatable object such as a cloth or paper or an insulating material on top of the LED fixture or cover it with such a material. It may cause the fixture not to turn on or fire.
Do not put a piece of metal or a flammable object in clearance of the LED fixture.
The outline of the LED fixture main unit must not contact equipment in or out of the ceiling. It may cause fall, electric shock, or fire.
Do not operate the fixture with wet hands. It may result in an electric shock.



Important notice for storage

Observe the storing temperature of our LED fixtures: 0 °C to 55°C
Please do not store the carton or the packages of our LED fixtures in the following conditions:

- wet location
- places of high humidity
- places with much litter or dust
- places of exposing against sun light directly
- places a solvent such as a paint liquid is stored

During storing period, please do not put the cartons or individual packages vertically.
Please do not open individual package until just before installing LED fixtures to avoid any damage to the LED fixtures.

Please do not place heavy object on the carton.
Please do not use our LED fixtures as the working light during construction period.



The product must be allowed to dissipate heat.
Allow sufficient space for ventilation (heat dissipation) between the lamp fitting and building structure.
Avoid installing the light appliances close to each other.
It may shorten product life or cause fire.



Do not use the product if the cover is damaged.
Risk of an accident and electrical shock.



If the product is dirty, wipe with a dry cloth.
Do not use thinner, benzene, or other organic volatile solvents to clean the product, and do not wash with water.



Do not use a brush or an abrasive to polish metal parts.
Risk of damage and corrosion.



This lamp fitting is for indoor use only.
Do not use in the following environments:

- A location at high temperature (+35°C or higher)
(usage environment temperature is 0°C to +35°C.)
- A location with high humidity.
- A dusty location.
- A location with corrosive or inflammable gases.
- A location where the product is exposed to direct sunlight.
- A highly airtight location.
- A location where the product is directly exposed to salt water or organic solvents.
- A location subject to the effects of electric or magnetic fields.
- A location subject to intense vibration or shock, or a location subject to continuous vibration.



Please do not do the followings to the product.

- Disassemble, modify, or add holes to the lamp fitting.
- Forcibly pull or twist the lamp fitting.
- Cut or damage the power cable.
- Use a damaged cable.
- Install the lamp fitting with tension placed on the cable.
- Press down on the lamp fitting.
- Drop the lamp fitting or subject the lamp fitting to intense vibration or shock.



When there is abnormal situations, please cut off the power immediately, consult with electricians, and do not touch the LED fixture with hands.

Please read before the usage

- Use the special mounting fixture to mount the lamp fitting to the mounting location, and verify that the mounting is secure.
- 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 product.

Caution regarding installation environment of power supply

Regarding the temperature, humidity, and other conditions of the operating environment, follow the instructions in the manual for the power supply.

Maintenance and Inspection

- Lighting apparatus has a life span.
- Degradation occurs inside after 8-10 years of installation even when the apparatus looks fine from the outside.
Parts of the lighting apparatus degrade due to 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 performed at least once every 6 months.
- Inspection by a specialist, such as a product contractor, should be performed at least once every 3 years.
- If the apparatus 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 any cracks, splits, or detached parts on any parts or joints?

Cleaning Methods

- Lightly wipe the lighting apparatus with a soft cloth.
- To best cleaning the apparatus, wipe dirt with a soft cloth which has been soaked in a neutral detergent diluted with water and wrung firmly. To finish off, wipe it with a damp cloth and dry it.



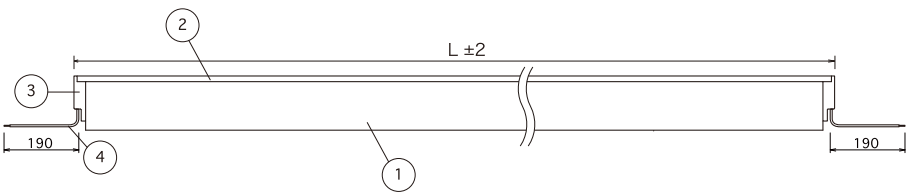
Luci nano line

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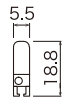
Product specifications

※ unit of measure=mm

Side view 1



Side view 2

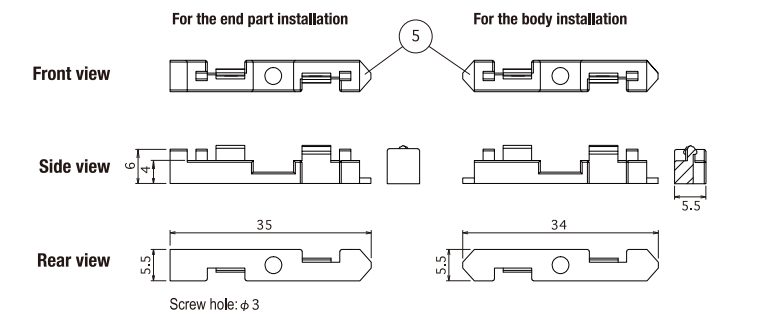


#	Item	Name Materials etc.
①	Body	Aluminum (alumite treatment), Silver
②	Body cover	Polycarbonate, Diffuser
③	Side cover	Polycarbonate, Diffuser
④	Lead Wire	UL1007 AWG26,black + , white-
⑤	Mounting Clip A	PC(Polycarbonate), Clear
⑥	Magnet	Stainless steel, Neodymium
⑦		
⑧		
⑨		

Accessories

Mounting Clip A for nano line (LNL-PTA) (Accessories : 2 parts for the body installation, and 2 parts for the end part installation, Option parts : 4 parts for the body installation, and 4 parts for the end part installation)

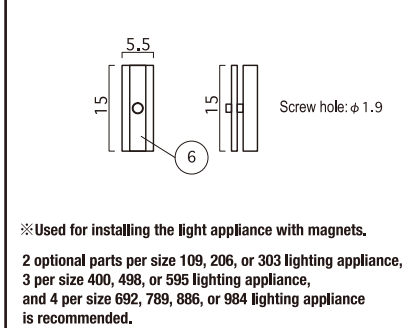
Installation Dimensions



Option parts

Magnet for nano line (LNL-MG) (10pcs/1bag)

Installation Dimensions

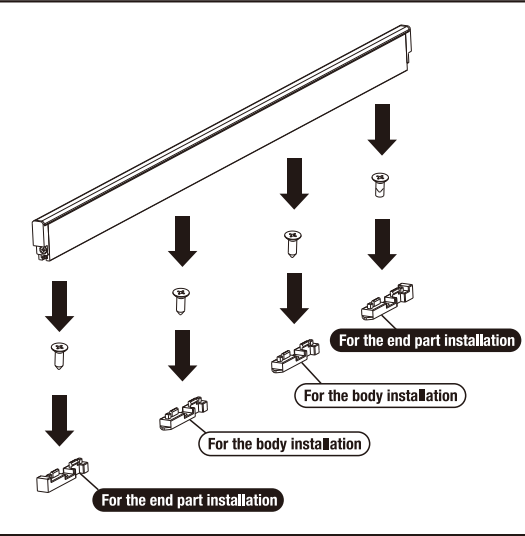


Item / Product Name	Luci nano line									
Model No.	LNL-0109-※-DF-I	LNL-0206-※-DF-I	LNL-0303-※-DF-I	LNL-0400-※-DF-I	LNL-0498-※-DF-I	LNL-0595-※-DF-I	LNL-0692-※-DF-I	LNL-0789-※-DF-I	LNL-0886-※-DF-I	LNL-984-※-DF-I
Power consumption	0.7W	1.4W	2.2W	2.9W	3.6W	4.3W	5.0W	5.8W	6.5W	7.2W
Input current	0.03A	0.05A	0.08A	0.10A	0.13A	0.16A	0.18A	0.21A	0.23A	0.26A
Lamp fitting length (L)	109mm	206mm	303mm	400mm	498mm	595mm	692mm	789mm	886mm	984mm
Number of LEDs	12	24	36	48	60	72	84	96	108	120
Weight	20g	37g	52g	68g	83g	99g	114g	130g	145g	160g
Max. sets connectable	5m									
Ambient temperature	0℃～+35℃ (No Condensation)									
Environment	Indoors									
Material (Body)	Polycarbonate, Aluminum									
Attachments	Mounting Clip A (2 parts for the body installation, and 2 parts for the end part installation)									
Option parts	Mounting Clip A, Magnet									
Dimmable	○									
Power Supplies	○									
Light source color (※)	Natural white(N), White(W), Warm white 3000K(L30), Warm white 2700K(L27), Warm white 2400K(L24)									
Certification	—									

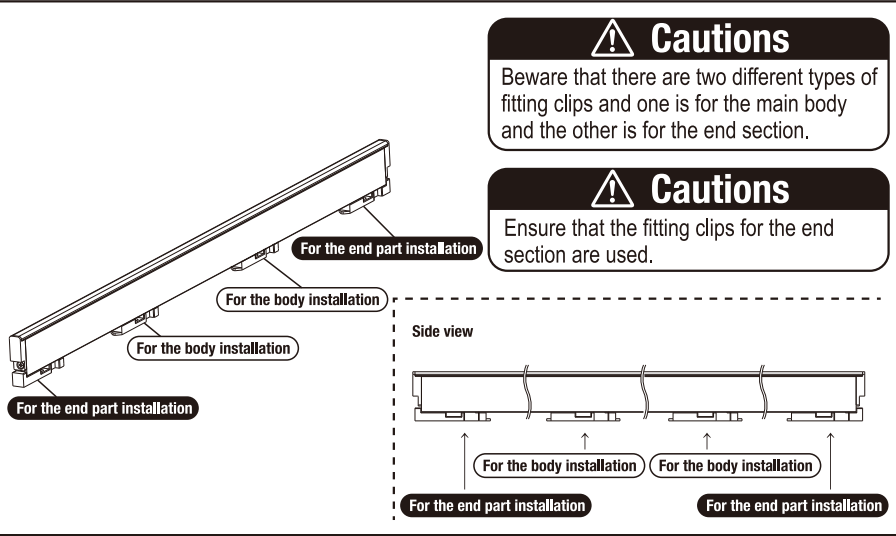
Installing the prod

A Standard installation method

※ Ensure that lighting apparatuses and clips are installed as shown below.



① Screw the fitting clips (for the main body and for the end section) with regular screws (not provided with our products) to where the lighting apparatus will be fitted.
Recommended screw: pan head screw M2.6



Cautions
Beware that there are two different types of fitting clips and one is for the main body and the other is for the end section.

Cautions
Ensure that the fitting clips for the end section are used.

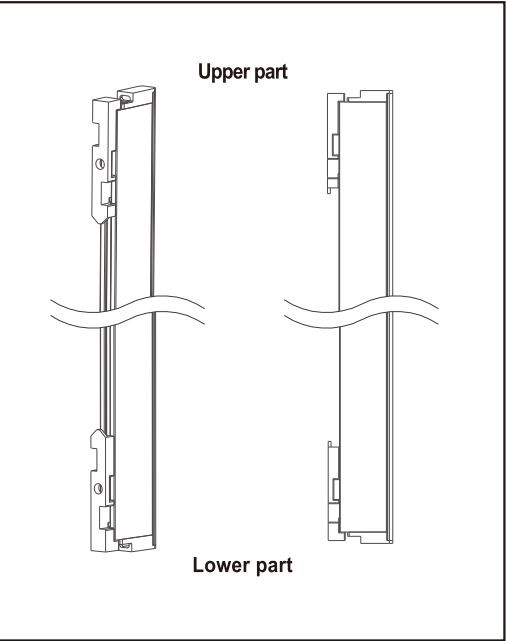
② Attach the lighting apparatus onto the fitting clips as shown above.
You should hear a snapping sound when attached.
Ensure that two fitting clips for the end section are installed at the end of the lighting apparatus.

Mounting Clip A Recommended number of clips for the installation

Mounting Clip A	Lengths	109	206	303	400	498	595	692	789	886	984
For the end part installation		2	2	2	2	2	2	2	2	2	2
For the body installation		0	0	0	1	1	1	2	2	2	2

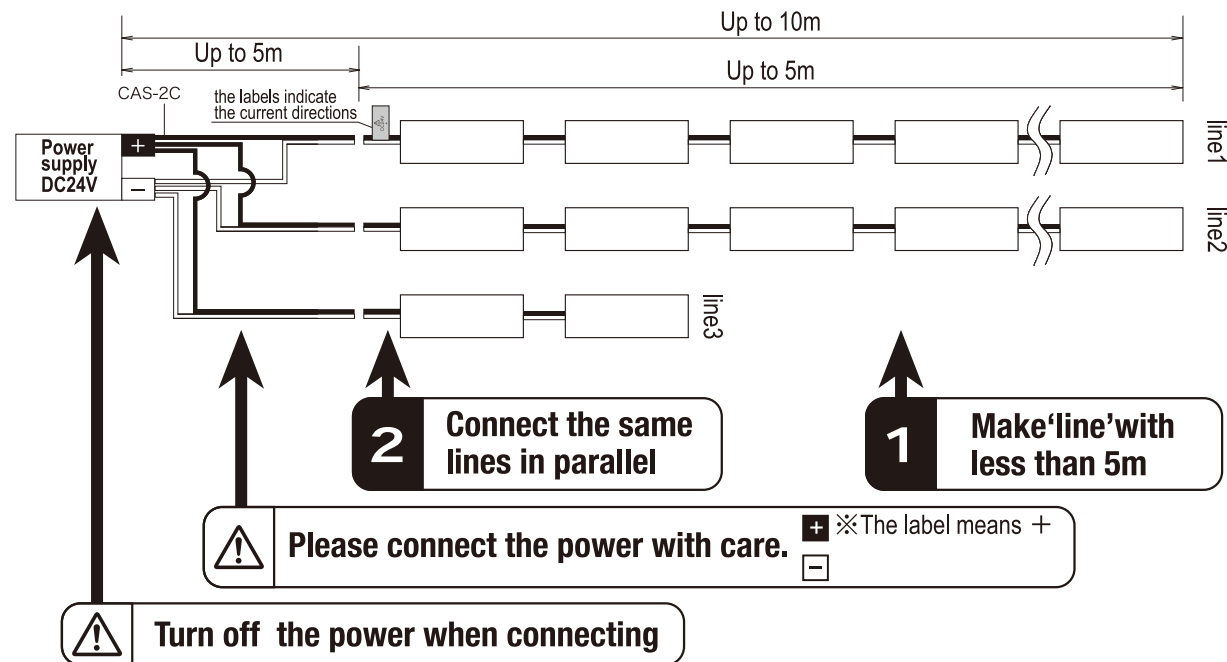
B How to install lengthwise

* For installation in lengthwise direction, the light appliance and clip should be placed in accordance with the diagram below.



Firstly, ensure that the lighting apparatus is installed on the hook shaped part of the fitting (See Figure below).
(The lighting apparatus could drop and be dangerous if the load is supported at the hook shaped part.)
For the upper part of the lighting apparatus, tighten the screws on to the fitting parts and slide the lighting apparatus into the fitting parts.
※Avoid interfering with lead wire when installing.

Connecting lamp fittings



⚠ Cautions

The number of lamp fittings that can be connected to the power supply depends on the output (W) of the power supply.

For Luci nano line, the **maximum number connectable in series is 5 m**. If more than the maximum number must be connected, connect in separate systems.

Lamp fitting lengths (109, 206 303, 400, 498, 595, 692, 789, 886, 984) can be combined freely; however, the maximum number of meters connectable in series (5 m) must be strictly observed.

Small noise may be emitted from the appliance and the dimmer while using the dimmer, but it is normal. Load capacity of 60% is recommended to reduce noise.(normal operation: 70%)

Lengths Output	Total connectable length		Max connectable Unit									
	Normal operation	During dimmer use	109	206	303	400	498	595	692	789	886	984
30W	3m	2.5m	29 (25)	14 (12)	10 (8)	7 (6)	6 (5)	5 (4)	4 (3)	3 (3)	3 (2)	3 (2)
50W	5m	4m	48 (42)	24 (21)	16 (14)	12 (10)	9 (8)	8 (7)	7 (6)	6 (5)	5 (4)	5 (4)
75W	7m	6m	73 (62)	36 (31)	24 (21)	18 (15)	14 (12)	12 (10)	10 (9)	9 (8)	8 (7)	7 (6)
100W	10m	8m	97 (83)	48 (41)	32 (27)	24 (21)	16 (16)	16 (14)	14 (12)	12 (10)	11 (9)	10 (8)
150W	14m	12m	146 (125)	73 (62)	48 (41)	36 (31)	29 (25)	24 (21)	21 (18)	18 (15)	16 (14)	14 (12)

Numbers in () : Connectable units when connected to a dimmer

Connecting to the power supply

Caution: Installation environment of power supply

Follow the instructions in the manual for the power supply regarding the temperature, humidity, and other operating environment conditions.

⚠ Important!

Check with the labels indicating the current directions and be sure to correctly connect to the power supply.

※Provide a 2-core cable.

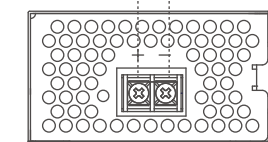
AC input side →
(Connected to primary side power supply)

24V dedicated power supply

DC output side ↑
(Connected to LED lamp fitting)

Polarity ⊕

Polarity ⊖



Ex: 150W dedicated power supply connection section details

About the connection cable

Cable thickness and allowable current
(reference value according to manufacturer documentation)
Ambient temperature 30°C

	VCTF-2C-_sq	
Conductor nominal cross-section area	0.75	1.25
Max. allowable current (A)	7	12

* Use the U terminal or O terminal for the power connection and make sure the screw is tightened completely.

- When wiring, make your selection by paying careful attention to the cable used at the input and output. When current flows in a long cable, the loss (heat generation) is generated by resistance, etc.

- Thick, short wiring is ideal.

When the cable is bundled, heat dissipation becomes poor and the temperature becomes extremely high. When bundling 5 cables or more, connect by lowering the load factor (number of connected devices).

- Divide connection to the DC output side terminals into 2 to 4 systems so that wire of the same size as the cable connecting to the Luci product body or a little thicker is connected. Connection with maximum VCTF-2C-2.0sq is recommended.

- To prevent electrical shock and noise, be sure to correctly connect the L (live), N (neutral), and FG terminal of the AC input correctly.