



Luci SHIN silux


instruction Manual

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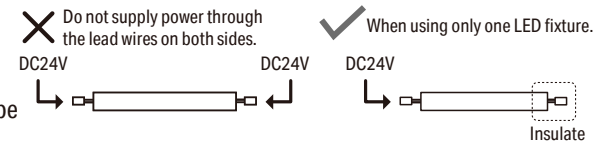
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⚠ To ensure safe usage


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.
- 


Always shut off the main power supply before working or inspection.
Do not connect or disconnect the lead wires of the light fitting while power is supplied.
- 


Firmly connect the connectors.
Incomplete connection may cause heating, smoke, and fire.
- 


Do not touch the ends of the connectors. Risk of electrical shock.
- 


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 heatable 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.
- 


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 a lot of litters and dust
- place that sunlight is directly exposed.
- 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 fixture.

Please do not place heavy object on the carton.
Please do not use our light fixture as the working light fixture construction period.
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This light fixture is for indoor use only.
Do not use in the following environments :
Outdoors
- Location at high temperature (+35°C or higher)
(Operating temprature 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.
- 

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.

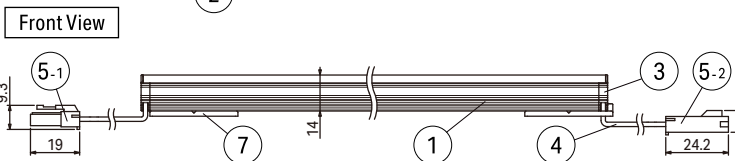
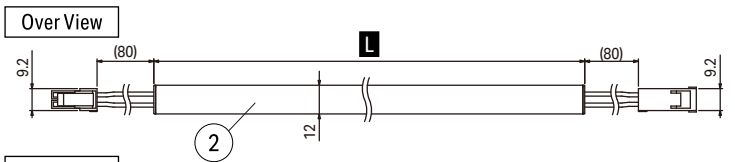
Product specification

※unit of measurement

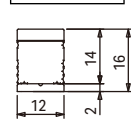


Input voltage

DC24V



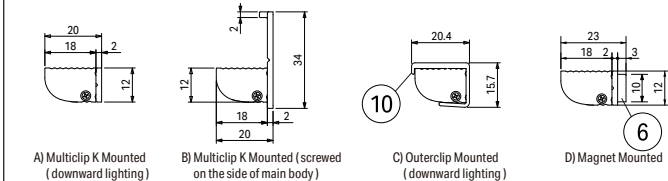
Side View



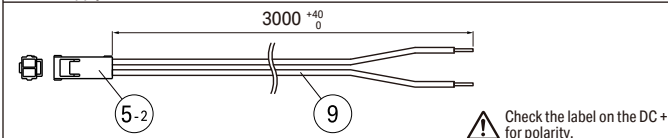
- Multiclip K Mounted
(Upward lighting)

No	Item	Name of material
①	Body	White
②	Body cover	Diffuser
③	Side cover	Diffuser
④	Lead wire	UL1007 AWG22, black + , white-
⑤	Connector	UL94 V-2 White
⑥	Magnet	Silver
⑦	Mounting Clip	Clear
⑧	Mounting Clip (Lift clip)	Clear
⑨	Lead wire	UL1007 AWG20
⑩	Mounting Clip (Outer clip)	Clear

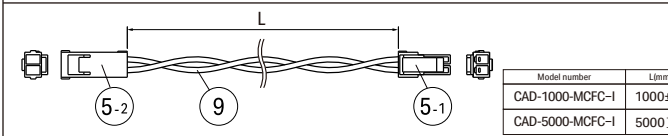
Dimensions (Side View)



Accessories :
Power supply cable 3000mm for SL connector (CAD-3000-MCINN-I)

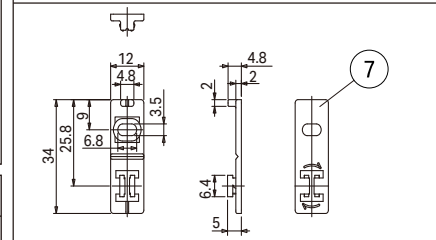


Accessories :
Joint cable 1000mm/5000mm for SL connector (CAD-1000-MCFC-I, CAD-5000-MCFC-I)

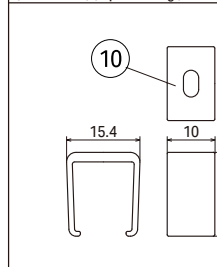


Model number	Length
CAD-1000-MCFC-I	1000±15
CAD-5000-MCFC-I	5000 ⁺²⁵⁰ ₋₀

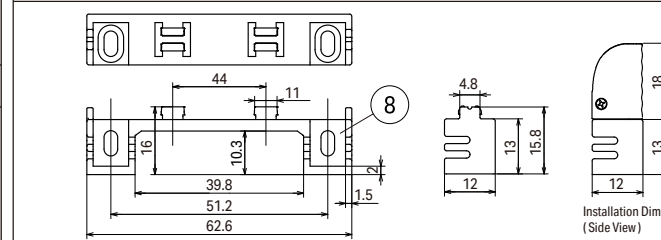
Attachment : Multiclip K for silux (LSX-PTM-C)
3pcs : 60mm ~ 760mm 5pcs : 810mm ~ 1410mm
Accessories : Multiclip K for silux (LSX-PTM-C) (3 or 5pcs / 1bag)



Accessories : Outerclip for silux
(LSX-PT-A) (5pcs / 1bag)



Accessories :
Liftclip for silux (LSX-PTL) (2pcs / 1bag)

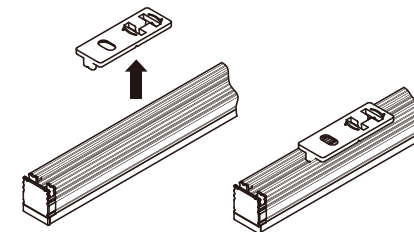


Item / Product Name	Luci SHIN silux				
Model No.	LSXY- * - * -DF-I-2	LSXY- * - * -DF-I-4	LSXY- * - * -DF-I-6	LSXY- * - * -DF-I-10	LSXY- * - * -DF-I-15
Wattage	2.1 W / m	4.2 W / m	6.4 W / m	10.8 W / m	15.9 W / m
Input Voltage	24 V				
Number of LEDs	140 LED / m				
Weight	145 g / m				
Environment	Indoors (No condensation)				
Operating temperature	0°C ~ +35°C (No condensation)				
Max. length per circuit	6m (2.1W/m 4.2W/m 6.4W/m 10.8W/m) 5m (15.9W/m)				
Material (Body)	aluminum , polycarbonate				
Attachment	Multiclip K (3pcs : 60mm ~ 760mm , 5pcs : 810mm ~ 1410mm)				
Accessories	Power supply cable 3000mm, Joint cable 1000mm/5000mm, Multiclip K (3pcs / 1bag), Liftclip (2pcs / 1bag), Outerclip (5pcs / 1bag), Magnet attachment				
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

For horizontal installation

Multiclip K installation : behind fixing



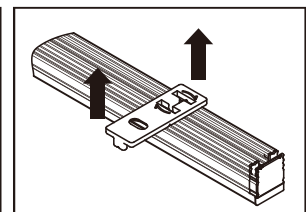
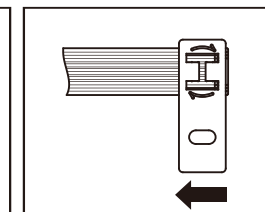
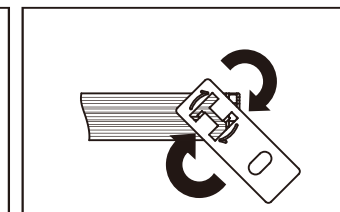
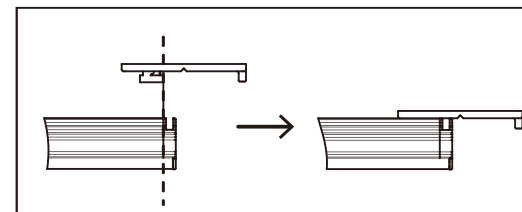
1. The mounting clip should be preset on the installation spot with screws supplied by installer.
(Flat head screws M3 recommended)
Required number of clips is 4pcs per 1m. Each distance of number of clips should not be exceeded 300mm.
2. Snap the light fixture on the mounting clip.
Ensure a click sound is heard when it is inserted.
3. Check if the light fixture is fixed securely , not being rattled or having distortion.
When detaching light fixture, please be careful not giving any damage on clips.

⚠ Cautions

Do not repeatedly attach and detach the light fixture to the multiclip K. Repeating the process more than 5 times may damage the clip tab.

Multiclip K installation: side fixing

For installation with protruding edge, Multiclip K installation should follow the diagram below.



- (1) Insert the multi-clip K at the spot shown in the upper diagram.
Ensure a click sound is heard when it is inserted.

- (2) Rotate the Multiclip K in 90 degrees in the direction as the arrow mark shown on the back of the Multiclip.

- (3) Slide the Multiclip to the desired fixing position.

- (4) Use the recommended screws supplied by installer to fix the Multiclip with the LED fixture.
(Flat head screws M3 recommended.) Required number of clips is 4pcs per 1m. Each distance of clips should not be exceeded 300mm.

⚠ Cautions

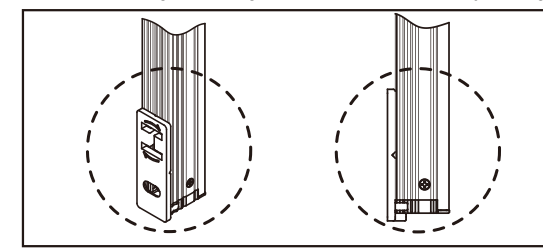
Do not rotate the clip more than 90 degree or opposite direction of the arrow.
The clip may be damaged and unusable.

For vertical installation

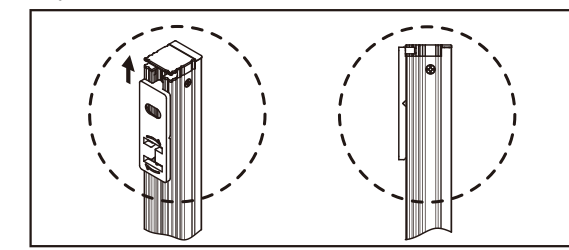
Multiclip K installation: behind fixing

For vertical installation, make sure the top and bottom of light fixture hook on the edge of the Multiclip K in accordance with the diagram.

Caution: If the weight of the light fixture is not supported by the edge of the Multiclip, it may be unstable.



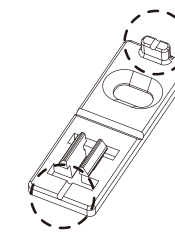
Bottom



Top

Marking function

The two grooves of Multiclip K can be used for installing the clip straight aligned on the center line.



⚠ Cautions

When installing the light fixture to the installation spot, ensure that it is leveled and inserted onto the clip tabs. Check if it is completely attached.



⚠ Cautions

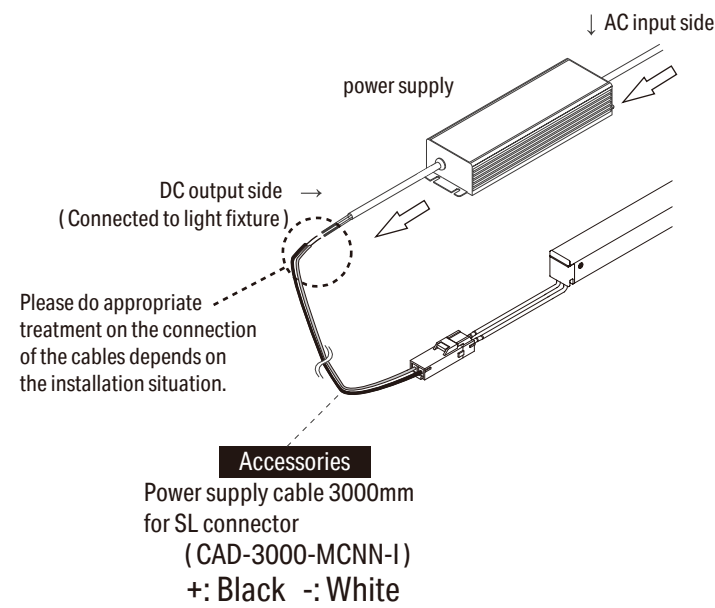
- 1) When installing the mounting clips, ensure all clips are installed in the same level on a plane surface and aligned on the centre line.
- 2) When installing the light fixture on the mounting clip, ensure to insert it completely onto the clip tab and check if it is securely attached.

In the event of improper installation, light fixture may have unexpected cracking sound and disconnect from the clips.

Conneciting to the power Supply

Caution :
Must choose suitable power supply

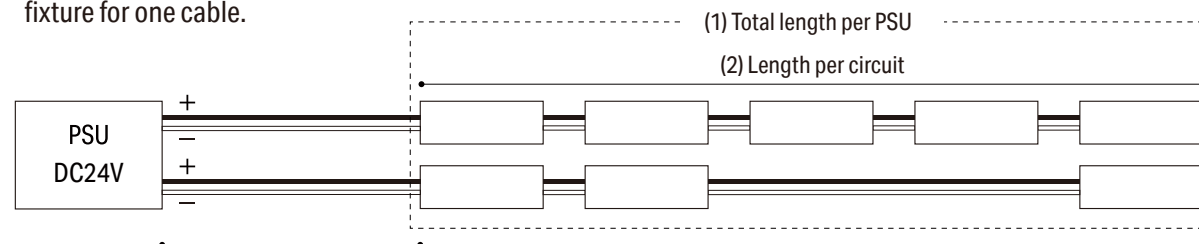
Refer to the power supply manual for temperature, humidity and other operating conditions.



- 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 mulitple 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 tless number of light fixture for one cable.



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

Model No.	Wattage	Cross section Wire gauze	(2) Max. length per circuit	(3) Max. cable length between PSU and the beginning of luminaire at (2) Max. length per circuit	
				0.3 sq AWG 22	0.5 sq AWG 20
LSXY- *- *-DF-I-2	2.1 W / m	0.75 sq AWG 18	6 m	13.0 m	20.0 m
LSXY- *- *-DF-I-4	4.2 W / m		6 m	6.5 m	10.5 m
LSXY- *- *-DF-I-6	6.4 W / m		6 m	4.0 m	7.0 m
LSXY- *- *-DF-I-10	10.8 W / m		6 m	3.0 m	4.0 m
LSXY- *- *-DF-I-15	15.9 W / m		6 m	1.7 m	2.8 m

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

Recommended No. of Mounting clips and Magnets and Outer clip

Length (mm)	Attachment multi clip	①	②	③		
		Multi clip	Magnet set A	Lift clip	Magnet set L	Outer clip
0060	3pcs	1pc	1pc	1pc	2pcs	1pc
0110	3pcs	1pc	1pc	1pc	2pcs	1pc
0160	3pcs	2pcs	2pcs	2pcs	4pcs	2pcs
0210	3pcs	2pcs	2pcs	2pcs	4pcs	2pcs
0260	3pcs	2pcs	2pcs	2pcs	4pcs	2pcs
0310	3pcs	2pcs	2pcs	2pcs	4pcs	2pcs
0360	3pcs	2pcs	2pcs	2pcs	4pcs	2pcs
0410	3pcs	2pcs	2pcs	2pcs	4pcs	2pcs
0460	3pcs	2pcs	2pcs	2pcs	4pcs	2pcs
0510	3pcs	2pcs	2pcs	2pcs	4pcs	2pcs
0560	3pcs	2pcs	2pcs	2pcs	4pcs	2pcs
0610	3pcs	3pcs	3pcs	3pcs	6pcs	3pcs
0660	3pcs	3pcs	3pcs	3pcs	6pcs	3pcs
0710	3pcs	3pcs	3pcs	3pcs	6pcs	3pcs
0760	3pcs	3pcs	3pcs	3pcs	6pcs	3pcs
0810	5pcs	4pcs	4pcs	4pcs	8pcs	4pcs
0860	5pcs	4pcs	4pcs	4pcs	8pcs	4pcs
0910	5pcs	4pcs	4pcs	4pcs	8pcs	4pcs
0960	5pcs	4pcs	4pcs	4pcs	8pcs	4pcs
1010	5pcs	4pcs	4pcs	4pcs	8pcs	4pcs
1060	5pcs	4pcs	4pcs	4pcs	8pcs	4pcs
1110	5pcs	4pcs	4pcs	4pcs	8pcs	4pcs
1160	5pcs	4pcs	4pcs	4pcs	8pcs	4pcs
1210	5pcs	4pcs	4pcs	4pcs	8pcs	4pcs
1260	5pcs	4pcs	4pcs	4pcs	8pcs	4pcs
1310	5pcs	5pcs	5pcs	5pcs	10pcs	5pcs
1360	5pcs	5pcs	5pcs	5pcs	10pcs	5pcs
1410	5pcs	5pcs	5pcs	5pcs	10pcs	5pcs
Unit of order		3pcs/bag	5pcs/bag	2pcs/bag	10pcs/bag	5pcs/bag

- ① No. of Multi clip needed
- ② No. of magnet A needed when installing Multi clip with magnet
- ③ No. of magnet set L needed when you install Lift clip with magnet