Installation Instruction
LED DeltaLum EC2 Strip

Applicable models:
DL-EC2

⚠ WARNING

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Commercial installation, service and maintenance of luminaires should be performed by a qualified licensed electrician.
- For the installation: If you are unsure about the installation or maintenance of the luminaires, consult a qualified licensed electrician and check your local electrical code.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

⚠ WARNING

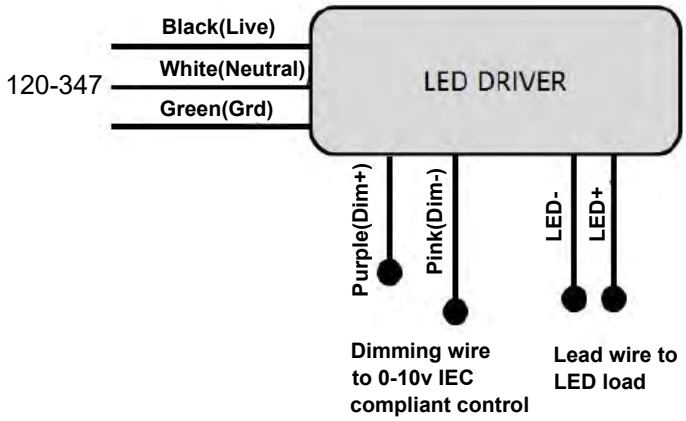
- Turn off electrical power at fuse or circuit breaker box before wiring fixture to the power supply.
- Turn off the power when you perform any maintenance.
- Verify that supply voltage is correct by comparing it with the luminaire label information.
- All wiring connections should be capped with UL approved wire connectors.

⚠ CA UTION

- Avoid direct eye exposure to the light source while it is on.
- Account for small parts and destroy packing material, as these may be hazardous to children.
- Risk of burn. Disconnect power and allow fixture to cool before changing bulb or handing fixture.

NO TICE: Green ground screw provided in proper location.Do not relocate.
NOTICE: Minimum 90° supply conductors.
NO TICE: Specifications and dimensions subject to change without notice.
NO TICE: Suitable for Dry or Damp location

General Wiring Diagram



Note: The CCT-adjustable function integrated Driver will have one more "LED-" output wire.

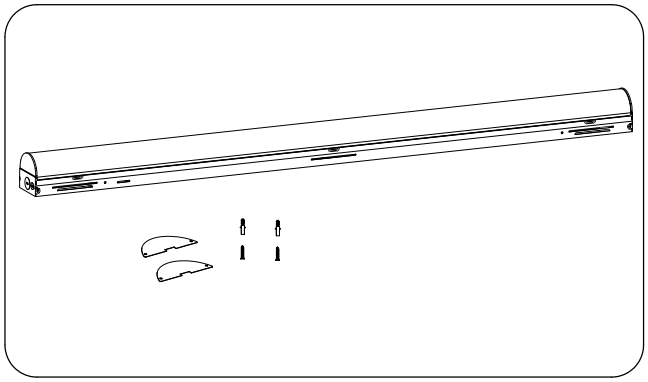
Installation Instruction
LED DeltaLum EC2 Strip

Applicable models:
DL-EC2

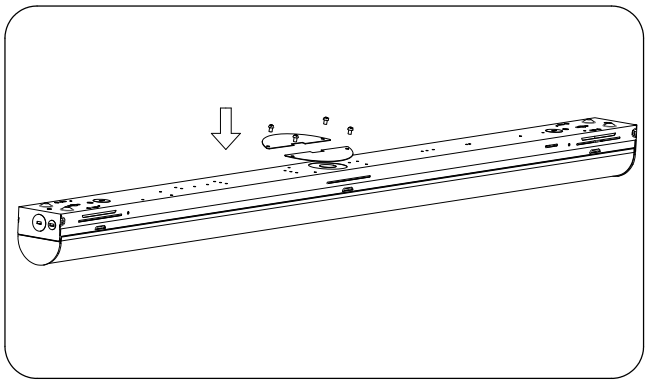
Surface Mounting

Notice: Always turn off the power supply from main circuit breaker first!

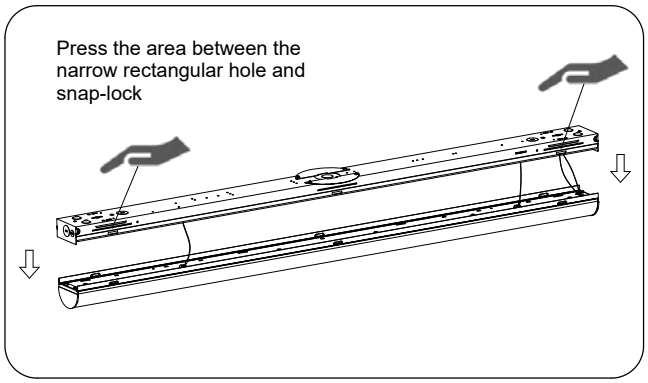
1.Take out the light fixture and accessories package from the box.



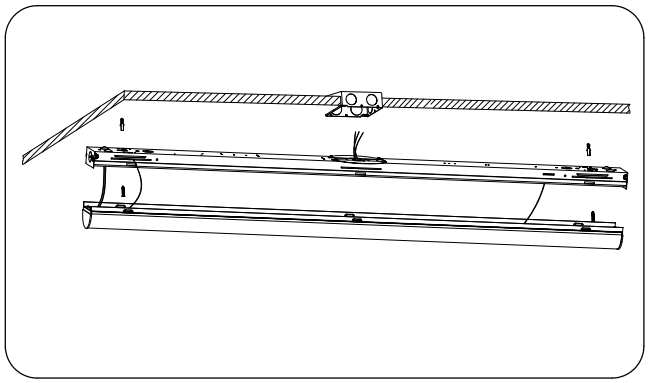
2.Fix the baffle onto the back of the fixture.



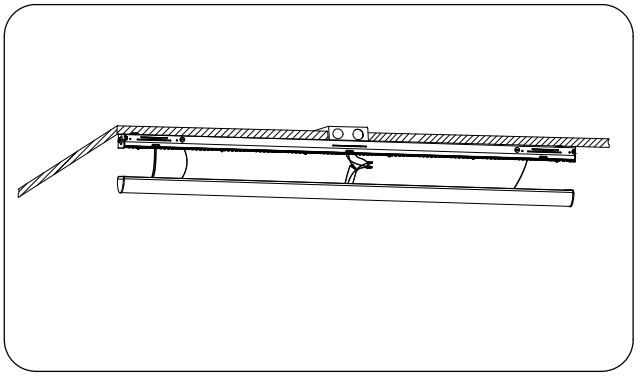
3.Open the module board down.



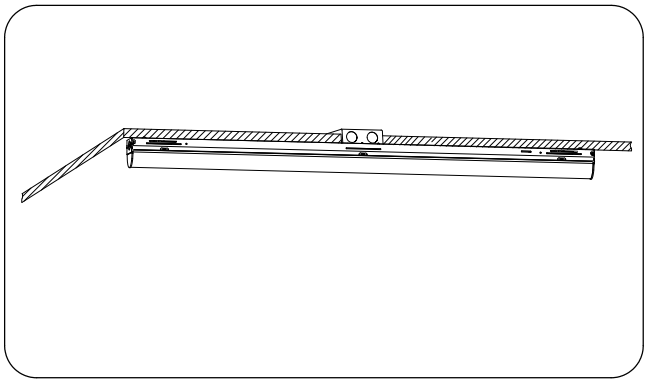
4.Fix the luminaire to the ceiling with the plastic anchors and screws(not included).



5.Wire to mian power through the junction box.



6.Assemble the module board upwards. The installation is completed.



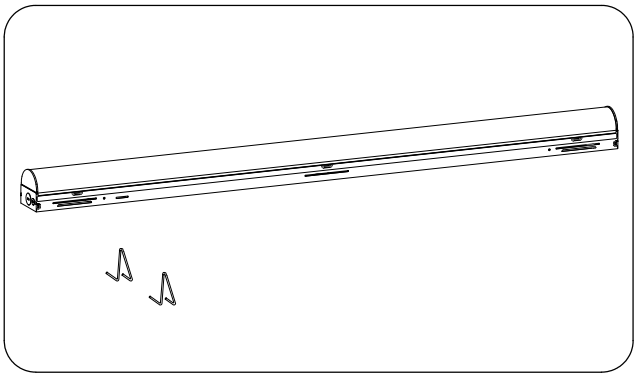
Installation Instruction
LED DeltaLum EC2 Strip

Applicable models:
DL-EC2

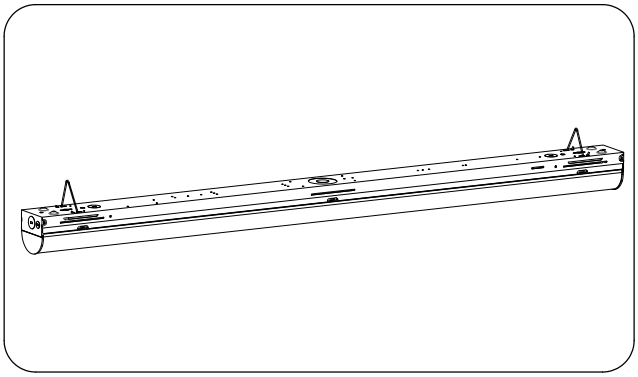
Chain Suspended Mounting

Notice: Always turn off the power supply from main circuit breaker first!

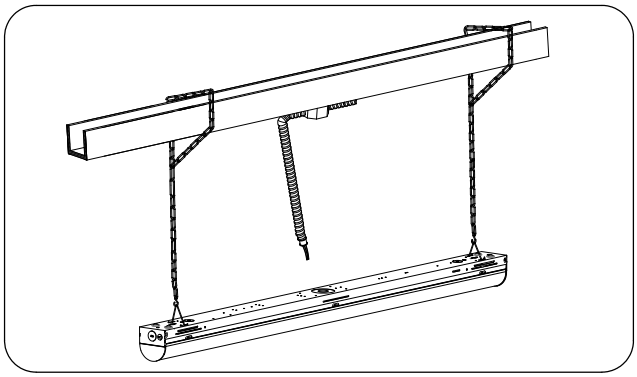
1.Take out the light fixture and accessories package from the box.



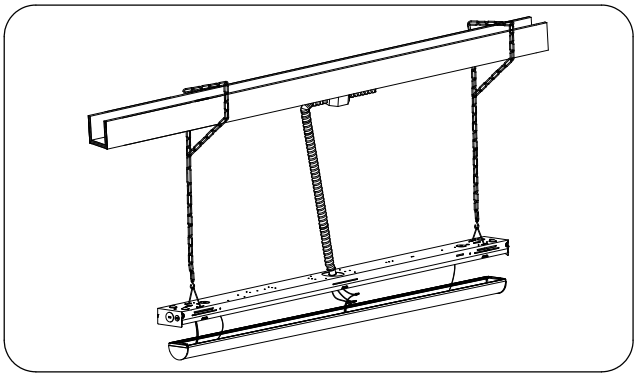
2.Connect the V-hook to back of the fixture body.



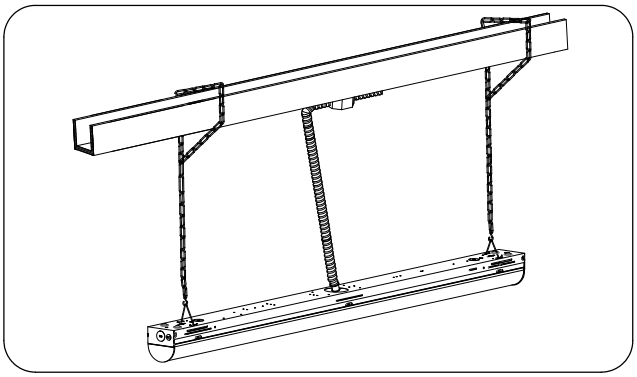
3.Attach chain to the V-hooks to hang the luminaire.



4.Fix the end of pipe to the outlet hole. Open the fixture body and connect the AC wires.



5.Reattatch the luminous part to the housing to complete the installation.



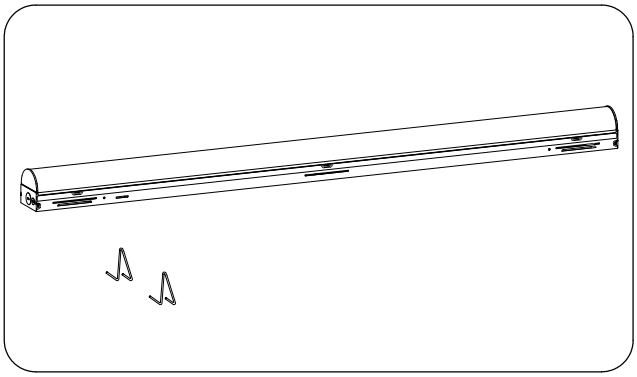
Installation Instruction
LED DeltaLum EC2 Strip

Applicable models:
DL-EC2

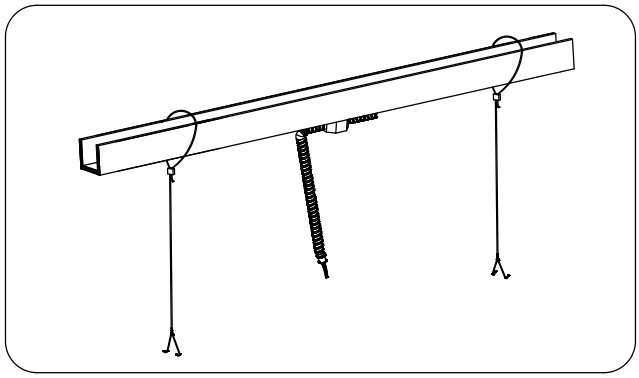
Cable Suspended Mounting

Notice: Always turn off the power supply from main circuit breaker first!

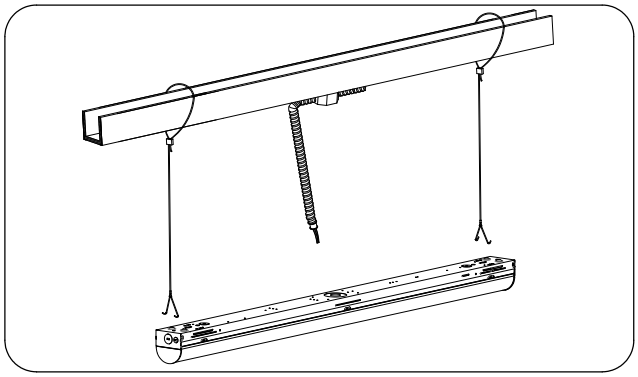
1.Take out the light fixture and accessories package from the box.



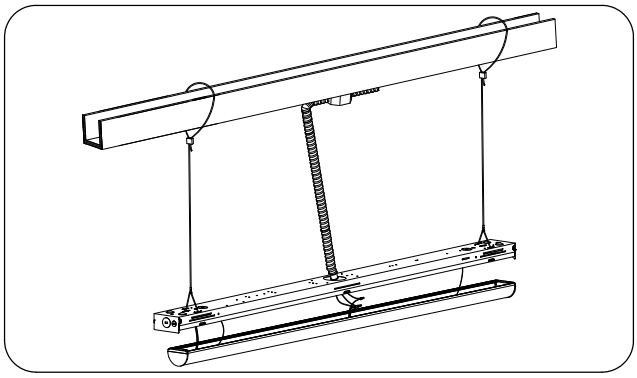
2.Attach V-hooks to the cable.



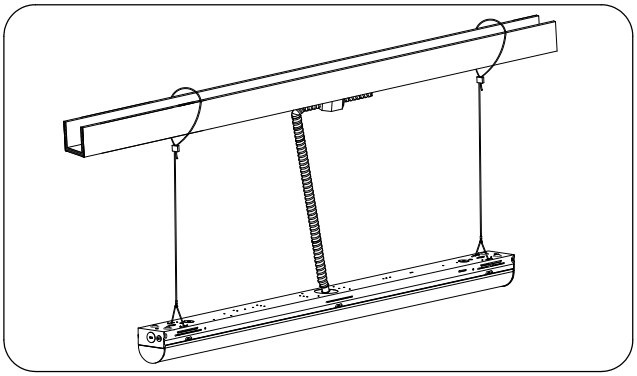
3.Attach the V-hooks to the fixture body to hang the luminaire.



4.Fix the end of pipe to the outlet hole. Open the fixture body and connect the AC wires.



5.Reattatch the luminous part to the housing to complete the installation.

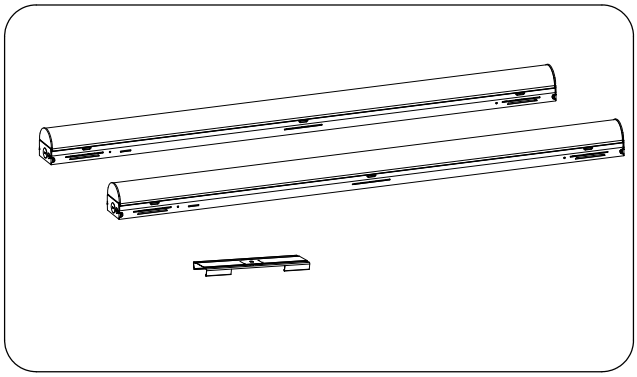


Installation Instruction
LED DeltaLum EC2 Strip

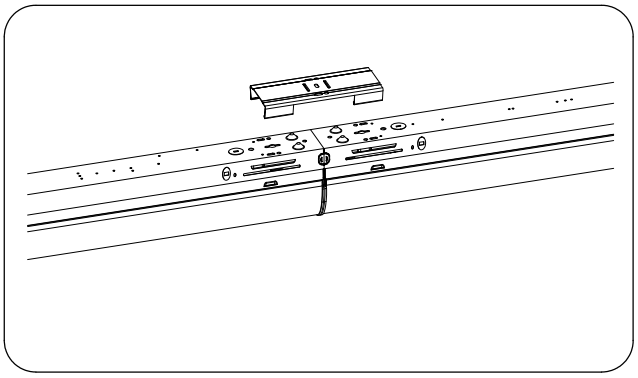
Applicable models:
DL-EC2

Row Mounting

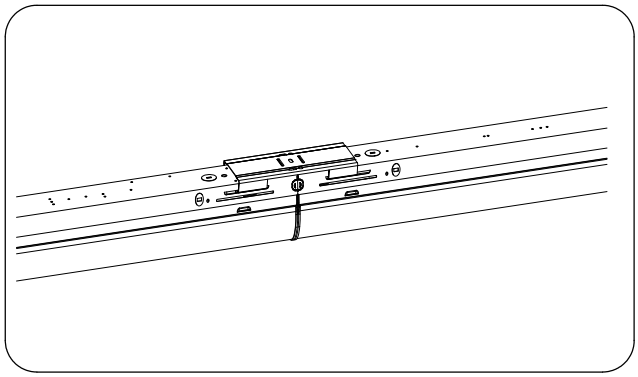
1.Take out the light fixture and accessories package from the box.



2.Install the connector to the end of the luminaires.



3.The installation is completed.

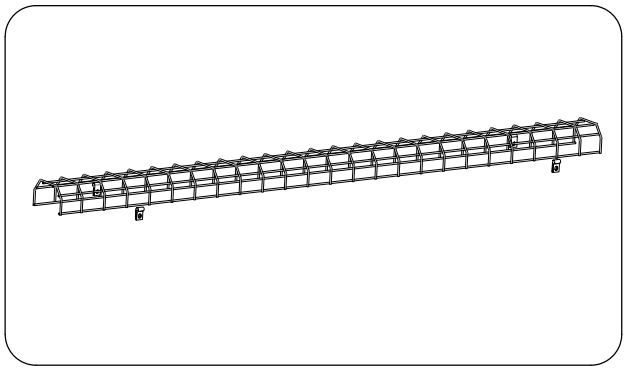


Installation Instruction
LED DeltaLum EC2 Strip

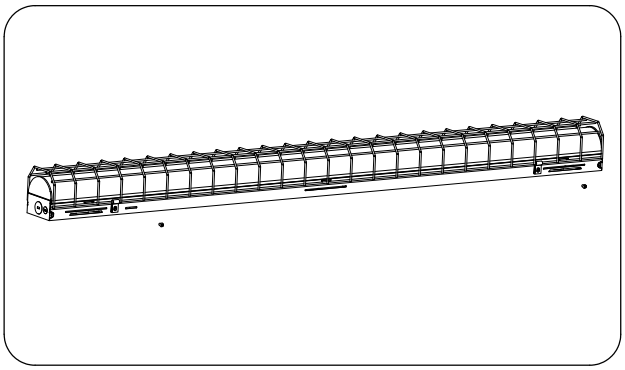
Applicable models:
DL-EC2

Wire Guards installation

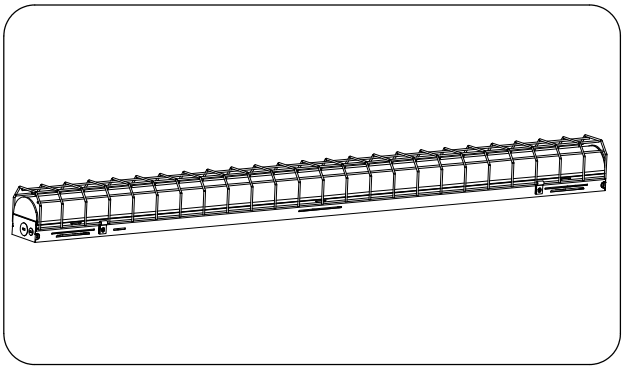
1.Insert the provided chips(4 pcs) onto the wire guard.



2.Fasten the chips by screws into the prepunched holes of fixture body.



3.The installation is completed.



Installation Instruction
LED DeltaLum EC2 Strip

Applicable models:
DL-EC2

Additional Accessories

- Standalone DC Sensor
  - IFS08-ET

Step 1:Remove the plate before or after you install the fixture.(Figure 1 and Figure 2)
Step 2:Insert the existing 3-core wire plug into the terminal of the approved sensor.(Figure 3)
Step 3:Press the sensor directly into the hole and make sure it is securely fit.(Figure 4)

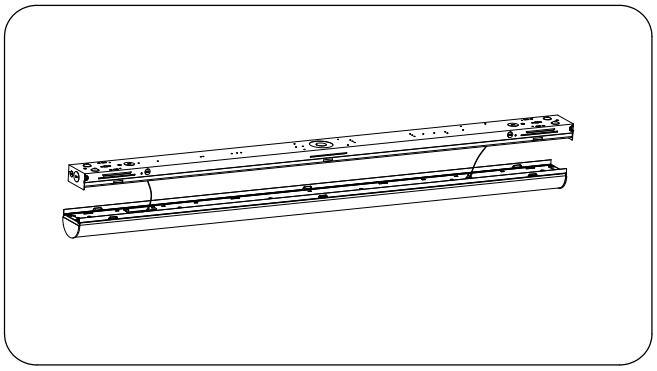


Figure 1

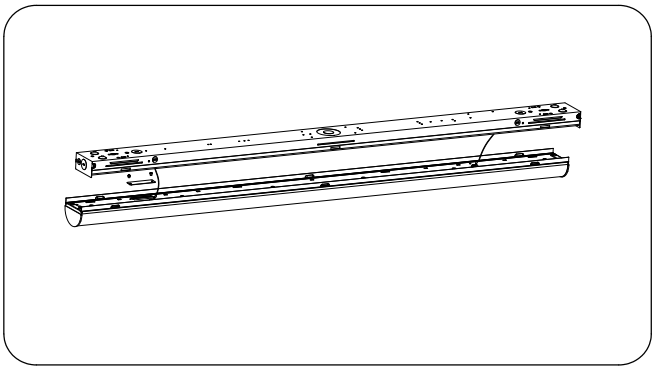


Figure 2

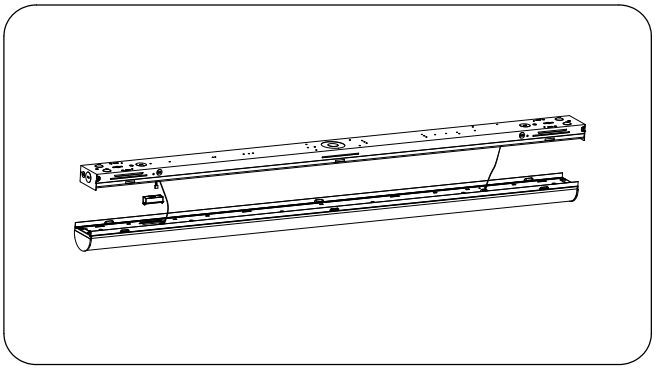


Figure 3

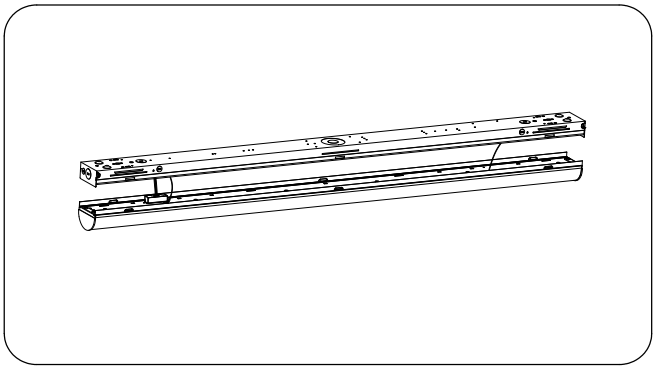
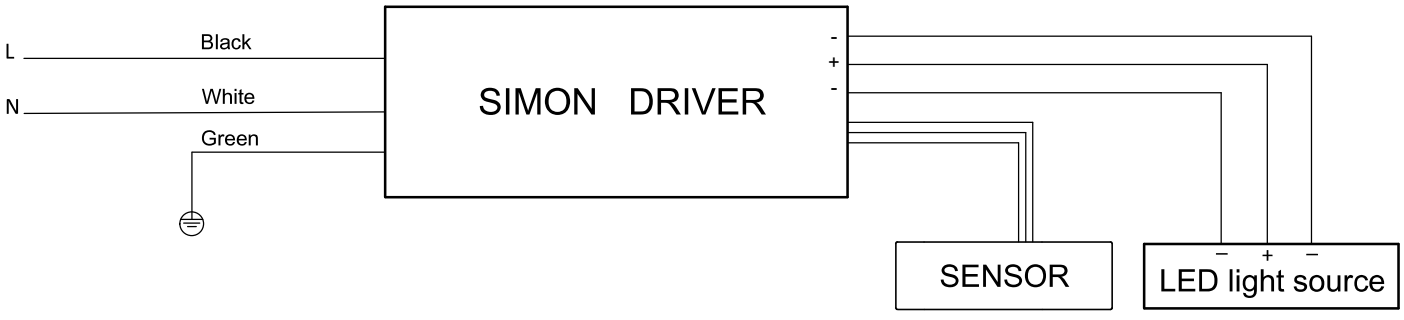


Figure 4

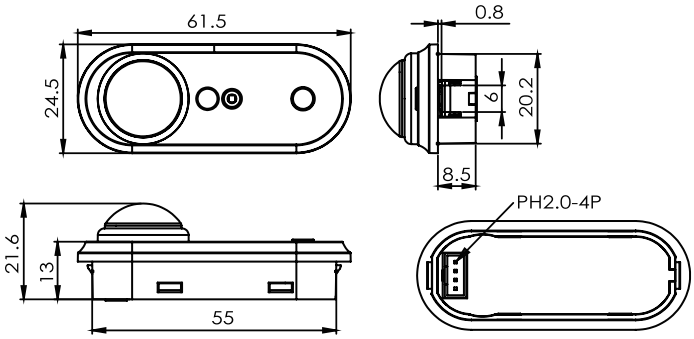
General Wiring Diagram



■ PIR Occupancy Bi-level&Daylight Harvesting Sensor
DL-EC2 PIR Sensor Instruction

DL-EC2 PIR Sensor

RGD-CB3/LVS/CONTROLLER



INTRODUCTION

DL-EC2 PIR Sensor indoor light fixture and provides daylight harvest control. It works by 10-14Vdc power, and controls 0-10VDC LED drivers or dimming ballasts All controls parameters (Hold time, task light level, stand-by level, stand-by time) are adjustable via dip switch and task light level also works by remote control.

SPECIFICATIONS

Power supply	10-14V DC, >50mA
Dim control output	0-10V, max. 25mA sinking current
Mounting height	12ft(4m) Max.
Detection angle	360°
Operating temperature	-20℃~60℃
IP rating	IP20

⚠ WARNING

NOTE: Warm up time is 40seconds. After the sensor connects input power first time, the light will keep on 40seconds, then go to dimming to work normally.

NOTE: Factory Default Setting: 100% sensitivity, Hold on time: 5min, Daylight sensor is ☼, Dimming level: 30%,Dimming time: 60minitues.

NOTE: Any setting changed by remote control, the led light that sensor connect will on/off as confirm.

DIMMING FUNCTION

This function inside the motion sensor to achieve tri-level control, for some areas which require a light change notice before switch-off. The sensor offers 3 levels of light: 100%-->dimmed light (natural light is insufficient) -->off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; Selectable daylight threshold and freedom of detection area.

With sufficient natural light, the light does not switch on when presence is detected.

With insufficient natural light, the sensor switches on the light automatically when presence is detected.

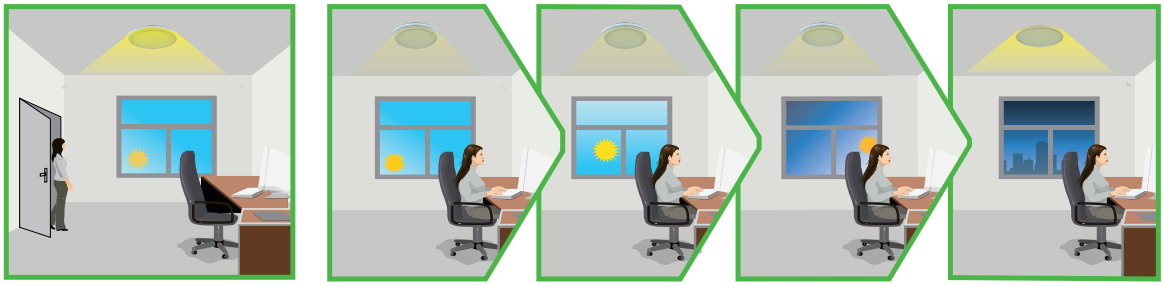
After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.

Light switches off automatically after the stand-by period elapses.

■ PIR Occupancy Bi-level&Daylight Harvesting Sensor
DL-EC2 PIR Sensor Instruction

DAYLIGHT HARVESTING FUNCTION (ONLY BY USING RC100 REMOTE CONTROL)

Open the daylight harvesting function only by choosing " " button when remote control is in setting condition. Memory and maintain current ambient brightness.



When the natural light is sufficient or dark, movement is detected and the light will turn on 100% brightness.

The light turns on at full or dims to maintain the lux level. The light output regulates according to the level of natural light available.

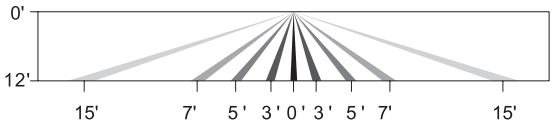
The light dims to stand-by period after hold-time and stays on selected minimum dimming level.

The light switches off completely after the stand-by period.

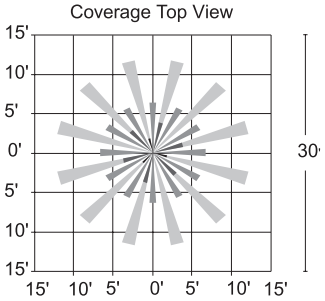
Setting on this demonstration:
BRIGHTNESS:100%
SENSITIVITY:100%
HOLD TIME:30MIN
DAYLIGHT SENSOR:
STAND BY DIM: 30%
STAND BY TIME: 1MIN

COVERAGE PATTERNS

Coverage Side View



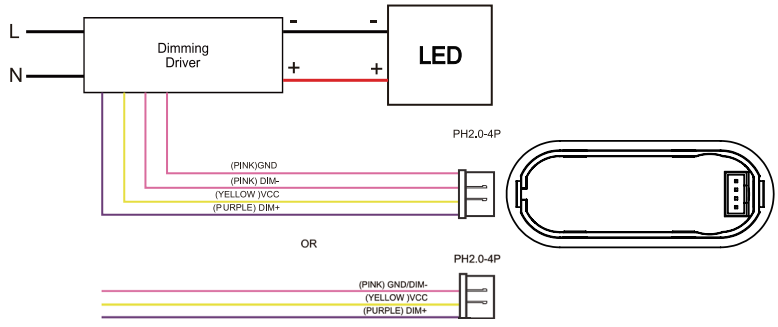
Coverage Top View



Minor Motion
Major Motion

DAYLIGHT HARVESTING FUNCTION SETTING BY REMOTE CONTROL RC-100.

Wiring



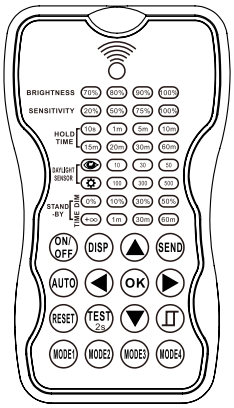
Installation Instruction
RGD-CB3/LSV/CONTROLLER

RGD-CB3/LVS/CONTROLLER
Low Voltage **PIR** Sensor Remote Control

Overview

The remote control Wireless IR Configuration Tool is a handheld tool for remote configuration of IR-enabled fixture integrated sensors. The tool enables device modification via pushbuttons without requiring ladders or tools, and stores up to four sensor parameter modes to speed configuration of multiple sensors.

The remote control uses bidirectional IR communication to send and receive sensor settings at mounting heights up to 50 feet. The device can display previously established sensor parameters, copy parameters, send new parameters, or store parameter profiles. For projects where identical settings are desired across a large number of areas or spaces, this capability provides a streamlined method of configuration. Settings can be copied throughout a site or in different sites.



LED Indicators

LED	DESCRIPTION	LED	DESCRIPTION
BRIGHTNESS	High end trim turning function(To Set the output level of connected lighting during occupancy)		To select the current surrounding lux value as the daylight threshold. This feature enables the fixture to function well in any real application circumstances.
SENSITIVITY	To set the occupancy sensing sensitivity of the Sensor		The daylight sensor stops working, and all motion detected could turn on the lighting fixture, no matter how bright the natural light is.
HOLD TIME	The time that the Sensor will turn off(if you choose stand-by level is 0) or dim the light to a low level after the area is vacated	STAND-BY DIM	To set the output level of connected lighting during vacancy. The sensor will regulate the lighting output at the set level. Setting the STAND-BY DIM level at 0 means light full off duringvacancy.
DAYLIGHT SENSOR	To represents various thresholds of natural light level for the Sensor .	STAND-BY TIME	To represents the time that the Sensor will keep the light at low dim level after the HOLD TIME elapsed.

Button Operation

BUTTON	DESCRIPTION	BUTTON	DESCRIPTION
ON/OFF	Press the ON/OFF button, the light goes to permanent on or permanent off mode, and the sensor is disabled. (MUST press AUTO button to quit this mode for Setting.	AUTO	Press AUTO button, the sensor starts to function and all settings remain the same as the latest status before the light is switched on/off.
DISP	Display the current/lastest setting parameters in LED indicators(the LED indicators will on for showing the setting parameters).	TEST 2s	The button TEST is for testing purpose sensitivity only. after you choose sensitivity thresholds, then you press TEST button, The sensor goes to test mode(hold time is only 2s) automatically ,meanwhile the stand-by period and daylight sensor are disabled. Press AUTO button to quit from this mode.
RESET	Press RESET button, all settings go back to settings of dip Switch in sensor.		
▲ ▼	Enter in the setting condition, the parameter leds of remote control will flash to be selected. and Navigate to UP and Down for choose selected parameters in LED indicators.	◀ ▶	Navigate to LEFT and RIGHT for choose selected parameters in LED indicators.
OK	Confirm the selected parameters selected parameters in remote control.	⎍	Open and close smart daylight Sensor. Press ▲ or ▼ Enter in the setting condition, the parameter leds of remote control will flash to be selected, Press ⎍ for open or close smart daylight Sensor.
SEND	Press SEND button, upload the current parameters to sensor(s), the led light which the sensor connects will on/off as confirm.		
MODE1 MODE2 MODE3 MODE4	4 Scene modes with preset parameters which are available to be changed and saved in modes.		

Settings

Change multiple settings of sensor(s)

1.Press DISP button, the remote control leds will show the latest parameters you set.
NOTE: if you push ON/OFF button before, you must push AUTO button to unlock the sensor.
2.Press ▲ or ▼ enter in the setting condition, the parameter leds of remote control will flash to be selected, navigate to the desired setting by pressing ▲ ▼ ◀ ▶ to select the new parameters.
3.Press ok to confirm all setting and saving.
4.Aim at the target sensor and press to upload the new parameter, the led light which the sensor connects will on/off as confirm.
NOTE: the setting works key step is by Push ▲ or ▼, enter in the setting condition.
NOTE: the led light which the sensor connects will on/off after getting the new parameter as confirm.
NOTE: If you press DISP button, the remote led indicators will show the latest parameters which were sent.

Change multiple settings of sensors with smart photocell sensor Open

1.Press DISP , the remote led indicators will show the latest parameters.
2.Press ▲ or ▼ enter in the setting condition, the parameter Led indicators of remote control will flash to be selected.
3.Press ⎍,2 led indicators will flash in daylight sensor settings ,select daylight 10 30 50 as setpoint to light on Automatically , select daylight 100 300 500 as setpoint to light off Automatically.
4.Press OK to confirm all setting and saving.
5.Aim at the target sensor and press SEND to upload the new parameter. The led light which the sensor connects will on/off.

NOTE: ⎍ is disabled by default.
1.Open or close the smart daylight sensor by push ⎍ when remote control is in setting condition.
2.When the smart daylight sensor open, 2 Led indicators are flash in daylight sensor setting. select daylight 10 30 50 as setpoint to light on Automatically , select daylight 100 300 500 as setpoint to light off automatically.When smart daylight sensor close, 1 Led indicator is flash in the daylight sensor setting for choose daylight sensor threshold.
3.When the smart daylight sensor open, the stand-by time is only +∞ .
4.Smart daylight sensor takes place of normal photocell senor and works independently.
5.See **Daylight Sensor Function**.