LE-C6 Instructions

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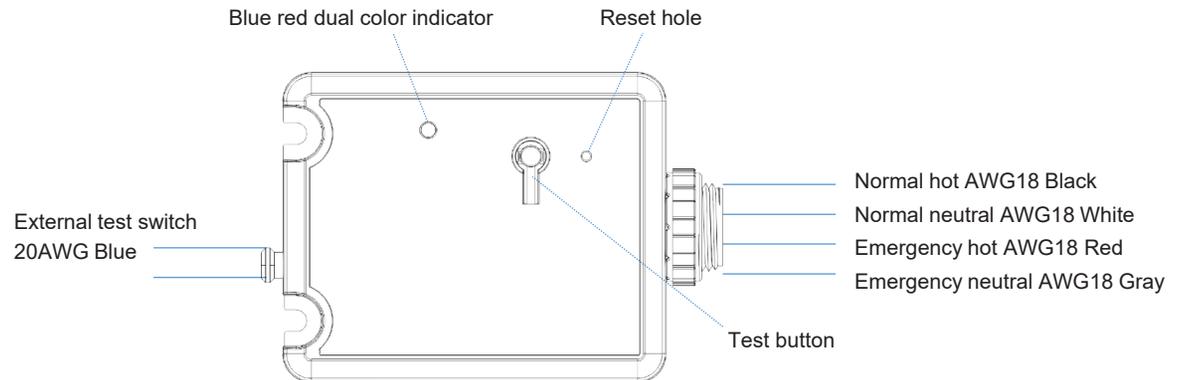LIGHTING CONTROLS

LE-C6 is an Emergency Lighting Control Device which is in compliance to UL924. LE-C6 needs to work together with LiteLogic smart lighting controllers and supporting products.

Various applications and suggested configurations of LE-C6 are listed in this instruction. Readers shall get familiar with LiteLogic APP and products by reading LiteLogic smart lighting APP instruction and the specification and installation guidance documents of these products beforehand.

Blue red dual color indicator   Reset hole

External test switch 20AWG Blue

Normal hot AWG18 Black
Normal neutral AWG18 White
Emergency hot AWG18 Red
Emergency neutral AWG18 Gray

Test button

Blue red dual color indicator:
- Blue ON: Powered on
- Red ON: Emergency mode
- Red Blink: Emergency power is disrupted

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Installation and Commission

Please install the LE-C6 properly and place it to an appropriate place according to the specification and installation guidance documents. Do not place it in places where wireless signal transmission might be blocked, such as places close to metal plate or concrete wall, or places that are very far away from other LiteLogic smart lighting controllers.

One LE-C6 is usually sufficient for one ZONE. Please place the LE-C6 in a position where its wireless signal can reach all emergency lights and devices. You may also install two or more LE-C6 in one ZONE if wireless coverage is an concern.

Add LE-C6 to Mesh Network:

Please add LE-C6 to mesh network with APP after installing it properly and powering it on. LE-C6 is to be added to a mesh network as a device. Please refer to APP instruction for details

Parameter Configuration

You may check the LE-C6 in device page of the APP after adding it to network. Long press the icon can bring out the parameter configuration page.

Device name, click to update it.

Select an action when normal power is disrupted.

Set the group and appropriate light level

Click to select a scene.

Set the repeat time

Action when normal power is restored, none for default. You may choose scene or group. No need to repeat the command.

Click Save to save the settings

Parameters

Parameters when normal power is disrupted:
It will enter emergency lighting mode when normal power is disrupted. Parameters include:
- Action: The action for emergency lighting mode. It could be a pre-defined lighting scene, or a lights group.
- Group and light level: You may choose a lights group and appropriate light level for emergency lighting when you selected group for action. Group and light level shall be decided according to the actual lights and facility to meet the UL924 requirements for emergency lighting.
- Scene: You may select a scene when you selected scene for action. Scene shall be decided according to the actual lights and facility to meet the UL924 requirements for emergency lighting.
- Repeat interval: LiteLogic smart lighting products use wireless communication technologies. To prevent user from mistakenly turning off or dimming the luminaires with APP or switches in case of emergency lighting conditions, LE-C6 will send emergency lighting commands repeatedly.

Parameters when normal power is restored:
Luminaires need to be returned to normal lighting status when normal power is restored. Usually, LiteLogic smart lighting products have sensors. Luminaires will automatically resume to normal lighting status as LE-C6 stops sending emergency lighting commands when normal power is restored. So no need to send command explicitly

It might be necessary that LE-C6 should send command to restore lights to normal lighting status according to the actual lights and facility. You need to configure it in the APP in this case. Parameters include:
- Action: The action for emergency lighting mode. It could be a pre-defined lighting scene, or a lights group.
- Group and light level: You may choose a lights group and appropriate light level for normal lighting when you selected group for action. Group and light level shall be decided according to the actual lights and facility to meet the requirements for lighting.
- Scene: You may select a scene when you selected scene for action. Scene shall be decided according to the actual lights and facility to meet the requirements for lighting.

Default parameter configuration:
Default factory parameter configuration: Turn "All lights" group to 100% level and repeat every 5 seconds when normal power interrupts. No action when normal power resumes.
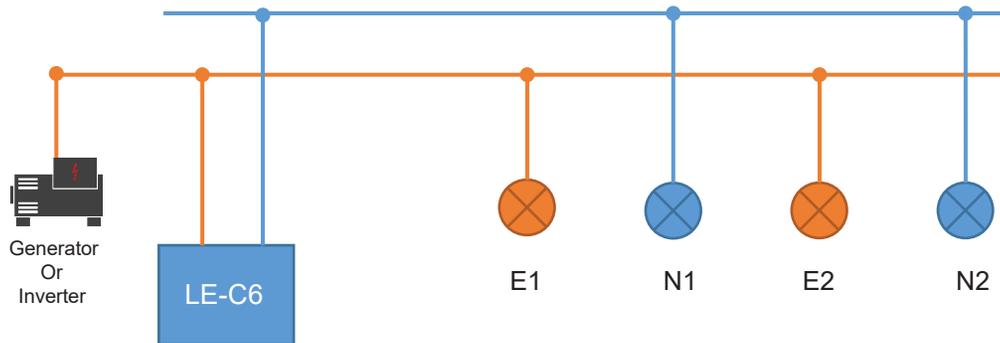
Emergency Function Test

There is an emergency function test button on LE-C6. It simulates the emergency lighting function when normal power is disrupted when the button is pressed down so user may test it.

The test button is on the housing of the LE-C6. Press the button to simulate the emergency lighting function when normal power is disrupted. Release the button to go back to normal lighting status.

There is also a pair of connectors for connecting a push button. You may connect a push button to the connector so to test it remotely by pressing the push button.
Note: Please do not connect the test button connector to any load or input voltage to avoid accidents.

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Legend:

— Normal power supply

— Emergency power supply

⊗ Normal luminaires, provide lighting under normal status

⊗ Emergency luminaires, installed at critical positions to provide lighting only under emergency status

A generator or inverter to provide centralized emergency power supply

Typical application

Emergency and normal power supply are separate. All luminaires are controlled by LiteLogic smart lighting controllers. Emergency luminaires are installed at critical positions and powered by emergency power supply. They only provide lighting under emergency conditions. Other luminaires are powered by normal power supply and only provide lighting under normal conditions.

Suggested configuration:

Create a group as "Emergency lights" and add E1/E2 as the group members.
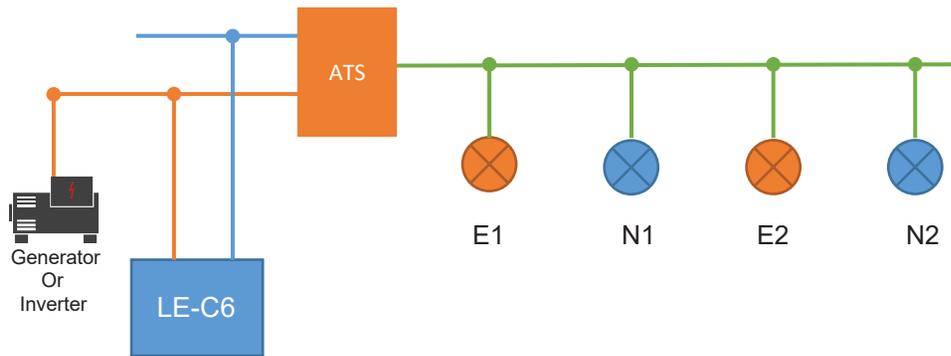
When normal power is disrupted:

Set the action to "group" and set the "Emergency lights" group to "50" light level. (Suppose 50 light level is sufficient to meet emergency lighting requirement, otherwise please set the scene to desired level) Repeat every 5 seconds.

When normal power is restored:

Set the action to "group" and set the "Emergency lights" group to "0" light level.

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Legend:

———	Normal power supply
———	Emergency power supply
———	Luminaire power supply
ATS	Automatic Transfer Switch. It can automatically switch between normal and emergency power supply. To provide continuous power for loads.
⊗	Normal luminaires, provide lighting under normal conditions.
⊗	Emergency luminaires. Install at critical positions to provide lighting only under emergency conditions.
	A generator or inverter to provide centralized emergency power supply

Generator Or Inverter

LE-C6

E1   N1   E2   N2

Typical application

There is an ATS which provide power to all luminaires and can automatically switch to emergency power when normal power is disrupted. All luminaires are controlled by LiteLogic smart lighting controllers. Luminaires installed at critical positions are emergency luminaires and they provide lighting under both normal and emergency conditions. Other luminaires are powered by normal power supply and only provide lighting under normal conditions.

Suggested configuration:

Create a scene as "Emergency lighting". Set E1/E2 to 50 level in this scene. (Suppose 50 light level is sufficient to meet emergency lighting requirement, otherwise please set the scene to desired level) Set N1/N2 to 0 level in this scene.
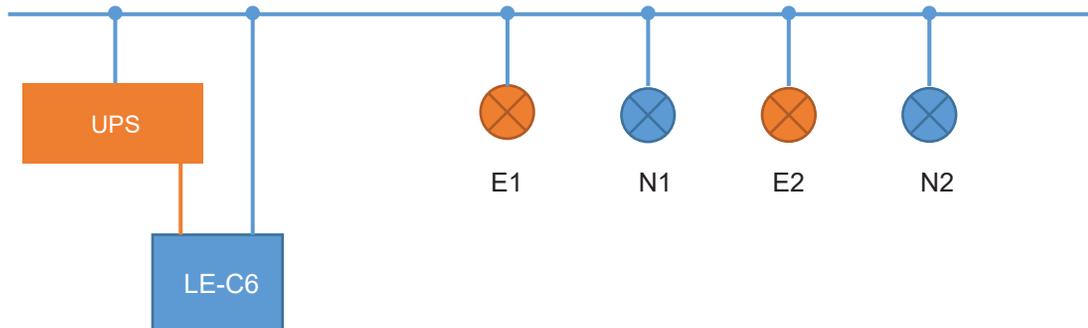
When normal power is disrupted:

Set action to "Scene" and select "Emergency lighting". Repeat every 5 seconds.

When normal power is restored:

Set action to "group" and set the "All lights" group to "Auto" light level.

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Typical Applications

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| E1 | N1 | E2 | N2 |

Legend:

———— Normal power supply

———— Emergency power supply

| UPS | An UPS (Uninterruptible Power Supply) to provide power supply to LE-C6 when normal power is disrupted. |

Normal luminaires, provide lighting under normal conditions.

Emergency luminaires with internal chargable battery Provide lighting under both normal and emergency conditions.

Typical application
There is only a normal power supply. All luminaires are controlled by LiteLogic smart lighting controllers. Emergency luminaires with internal chargeable battery and provide lighting under both normal and emergency conditions. Other luminaires are powered by normal power supply and only provide lighting under normal conditions. Emergency power supply device, which has internal chargeable battery and inverter to provide emergency power input to LE-C6.
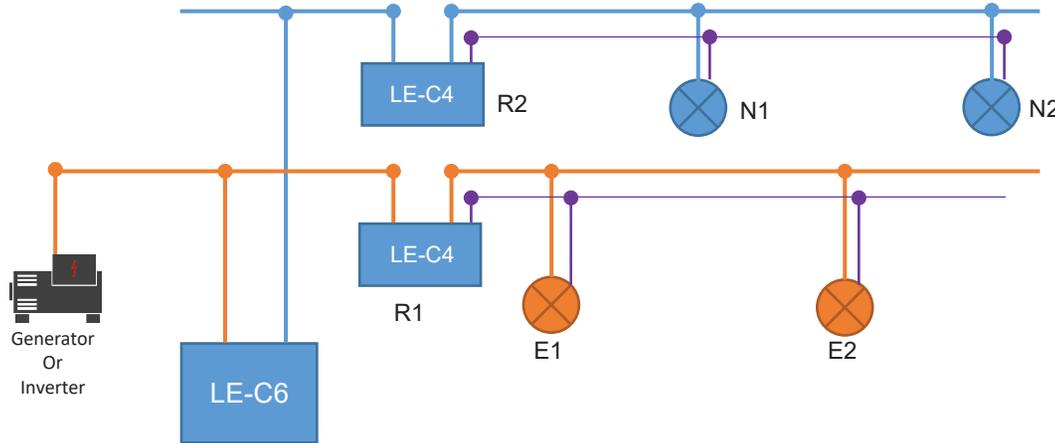
Suggested configuration:
When normal power is disrupted:
Set action to "group" and set the "All lights" group to "50" light level. (Suppose 50 light level is sufficient to meet emergency lighting requirement, otherwise please set the scene to desired level) Repeat every 5 seconds.

When normal power is restored:
Set action to "group" and set the "All lights" group to "Auto" light level. Action.

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Typical Applications

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Legend:

— Normal power supply

— Emergency power supply

— 0-10v dimming line

⊗ Normal luminaires, provide lighting under normal conditions.

⊗ Emergency luminaires. Install at critical positions to provide lighting only under emergency conditions.

▦ A generator or inverter to provide centralized emergency power supply

Typical application
Emergency and normal power supply are separate. All luminaires are ordinary (dimmable or non-dimmable) without LiteLogic smart lighting controllers. Emergency luminaires are installed at critical positions and powered by emergency power supply. They only provide lighting under emergency conditions. Other luminaires are powered by normal power supply and only provide lighting under normal conditions.

Suggested configuration:
There are Litelogic Zone Controllers (LE-C4) to manage the normal power circuit, emergency power circuit and all luminaires. Create a group as "Emergency lights" and add R1 as the group members. Create a scene as "Normal lighting" and set R1 to TURN OFF and R1 TURN ON with 100 output level.

When normal power is disrupted:
Set the action to "group" and set the "Emergency lights" group to "50" light level. (Suppose 50 light level is sufficient to meet emergency lighting requirement, otherwise please set the scene to desired level) Repeat every 5 seconds.

When normal power is restored:
Set action to "Scene" and select "Normal lighting".

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