2 CH LIGHTING MODULE
USER MANUAL

Introduction

2 Channel Lighting Module, which is remotely controlled and designed to operate in AC mains. Two Relay Switches enable ON/OFF control of regular Loads. The Relay Switch also operates as a repeater within the Z-Wave Network to which it is associated, and uses the latest Z-Wave plus chips.

Technical Specification

Power Input	240VAC, 50Hz
Maximum Load per Channel @240VAC	LED Drivers for Strips - Max 40W LED - Max 100W(Max 4 LED bulbs)Incandescent - Max 800W, Fan - Max 120W(Only ON/OFF)
CumulativeLoad - 4 Channels Muxed @240VAC	NA
Operating Temperature	-10° to +55°C
Temperature Sensing	NA
Relative Humidity	8% - 80%RH
Dimensions	49mm x 49mm x 17mm

Radio Frequency	865.2MHz (IN)
Surge Protection	1.2kv
Typical Line of Sight Range	10~15m Indoor /30m Outdoor
Plastic Housing	Fire Retardant ABS
Supported Load Type	Incandescent Bulbs, LED Lights, Fan.

Warnings & Considerations

CAUTION
READ INSTRUCTIONS IN FULL BEFORE USE
Wiring Connection Diagram and Parameters to use are mentioned in the manual. The Manufacturer, Confio will not be held responsible for any loss or damage resulting from not following the instructions of Operating Manual.

CAUTION
Do not connect the Device to Loads exceeding recommended values.
Connect Loads to the Module below the Load ratings to work normally. Do not connect overload, this may lead to Module failure.

CAUTION
Follow instruction manual for circuit connection
Connections must be made according to the instructions available on Operational Manual, faulty connection leads to manual failure.

DANGER
DANGER OF ELECTRIC SHOCK
All works on the Device may be performed only by a trained installer. If the installation is done by an unauthorized technician Manufacturer will not be held responsible. Contact support@confiolabs.com or call +91-9606030659 for a list of authorized Technicians.

DANGER
DANGER OF ELECTRIC SHOCK
Any works introducing changes into the configuration of connections or the Load must be always performed with disconnected voltage.
Since there are high chances of voltage occurrence at the terminals even after the Device is turned off. (Turn off the MCB). Faulty connection or use may result in fire or Electric Shock.

Safety Measures

1. Before installation, make sure that the power supply mains are turned off.
2. Remove the Switchboard cover frame and the switch frame to access the switches.
3. Select the Loads to be connected on particular terminals.
4. If multiple Loads are connected to a single terminal, use appropriate connectors to avoid Short Circuit.
5. Use only minimum 1.5mm² wires and maximum 2.5mm² wires for connections.
6. This Device requires a Neutral lead to operate.

Circuit Connections

The wiring diagrams below explain the possible combinations that are available.
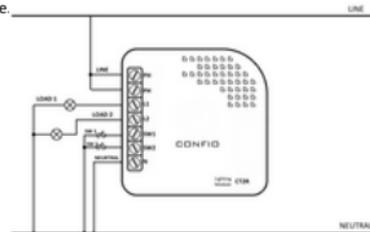
- Follow the above circuit connection for connecting 2 Individual Loads.
- Check the Load capacity before connecting.
- Loads must not exceed the maximum capacity mentioned in the instruction manual.

Activating 2 Channel Relay

1. Installing the Device

- Make sure that the power supply mains is turned off.
- Connect the Line, Neutral and the Loads on L1, L2.
- Use only Mechanical Switches for SW1, SW2.
- Complete all the connections and check the pairing before sealing the Electrical Box.

2. Managing the Device through Z-Wave Network

- It is recommended to place the Micro Module within 3m Line of Sight, as adding mode requires direct communication with the Controller.
- Move the Module near to the Primary Controller during this step, if required.

Inclusion Methods

Method 1
Press the Node ID Button (at the back of the module), to start Pairing the device to the Gateway.

Method 2
Toggle S1 3 times within 4 seconds to start Pairing the device to the Gateway. (Sequence: ON-OFF, ON-OFF, ON-OFF).

Exclusion Methods

Method 1
Press the Node ID Button (at the back of the Module), to start Unpairing the device from the Gateway.

Method 2
Toggle S1 3 times within 4 seconds to start Unpairing the device from the Gateway. (Sequence: ON-OFF, ON-OFF, ON-OFF).

Resetting Device

For resetting the Micro Module, press and hold the Node ID Button behind the Module for 10seconds. Then the Device will be restored to default.

Controlling By Position Switches

- S1 and S2 are controlled by Position Switches.
- It has no spring that would push the Device after releasing manual pressure.
- Setting the selected switch to the ON position activates the Load and vice-versa.
- If an external Controller turns off the Load and the Switch is ON, turning off the switch does not affect the Load.

Setting Additional Parameters

- Log on to Z-Wave Gateway from the app.
- Click Device Options >> Add Configuration Settings.
- Enter the parameter number in the Variable box and enter the desired parameter value.
- Click "SET".
- Close the dialog box and click Update Button.

Device Dimensions
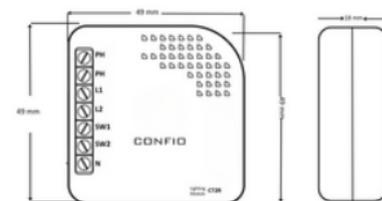
LED Indications

LED Indication	Status
Red Blinking	Excluded
Green Blinking	Included/Paired
Red and Green	In Pairing Mode

Important Instructions

- Wear standard personal protection equipment to give protection to the Technician.
- Position the antenna far away from metal elements to avoid interference.
- Do not cut or shorten the antenna, as its length is matched to the band in which the system operates.
- Do not over tighten the terminal block. It can cause serious malfunction after installations.

Parameters

Parameter 01	Switch - 01 Memory Status
Range	0 to 1
	0: Loads will be ON/OFF based on previous memory state irrespective of Switch states when the power goes OFF and ON.
	1: Loads will be ON/OFF based on Switch states irrespective of previous memory when the power goes OFF and ON.
Default	0
Description	This Parameter is designed to make the Switch ON/OFF based on the Switch Position/Memory Status

Parameter 02	Switch - 02 Memory Status
Range	0 to 1
	0: Loads will be ON/OFF based on previous memory state irrespective of Switch states when the power goes OFF and ON.
	1: Loads will be ON/OFF based on Switch states irrespective of previous memory when the power goes OFF and ON.
Default	0
Description	This Parameter is designed to make Switch ON/OFF based on the Switch Position/Memory Status.

Parameter 03	AUTO-OFF Timer for Channel 1.
Range	0 to 120(Minutes)
Default	0
Description	This Parameter is designed to make Load go OFF after specific time.

Parameter 04	AUTO-OFF Timer for Channel 2
Range	0 to 120(Minutes)
Default	0
Description	This Parameter is designed to make Load go OFF after specific time.

Parameter 05	Switch Type for Channel 1
Range	0 to 1
	0: Position Switch
	1: Toggle Switch
Default	0
Description	This Parameter is designed for the Switch behaviour of S1.

Parameter 06	Switch Type for Channel 2
Range	0 to 1
	0: Position Switch
	1: Toggle Switch
Default	0
Description	This Parameter is designed for the Switch behavior of S2.

Parameter 07	Local Switch Disable for Channel 1
Range	0 to 1
	0: Enables Mechanical Switch S1
	1: Disables Mechanical Switch S1
Default	0
Description	This Parameter is designed to Disable Switch 1.

Parameter 08	Local Switch Disable for Channel 2
Range	0 to 1
	0: Enables Mechanical Switch S1
	1: Disables Mechanical Switch S1
Default	0
Description	This Parameter is designed to Disable Switch 2.

Common Issues

Pairing not working: Confirm that the Gateway and the Relay Module are within 3m from each other while adding to the Gateway.

Recommendations

For connecting multiple Loads on a single Device, ask the Electrician to calculate the total load and confirm that it does not exceed the ratings mentioned under the Technical Specification section.

- Check the space behind the Switch Box for placing the Device.
- Turn off the MCB before the installation of Puck Module.
- Use only minimum 1.5mm² wires and maximum 2.5mm² wires for connections.
- Strictly follow the wiring diagram for connections.
- Do not connect higher loads (more than 8A) to a single channel.
- Inclusion has to be done within 3 meters.
- Always connect multiple Loads to a single circuit via an external terminal block.
- If there are signs of water seeping into the Electrical Box, turn off the MCB and disconnect the power supply to avoid short circuits.

Warranty

The warranty shall not cover:

- Mechanical damages caused by impact, falling or dropping the Device or their object, unauthorized use or not observing the Operation Manual.
- Damages resulting from external causes, for example, flood, storm, fire, lightning, natural disasters.
- Damages resulting from surges in the power and/or Telecommunication Network, improper connection to the grid in a manner inconsistent with the operating manual, or from connecting other devices not recommended by the Manufacturer.
- Damages resulting from the use of spurious spare parts or accessories improper for given model, repairing and introducing alterations by unauthorized persons.
- Defects caused by operating inoperable devices or accessories.

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