Dual Curtain Controller Manual

CT4RZB

Introduction

Confio dual curtain controller designed to control 2 blinds. It works with motorized roller blinds, CT2CC is powered by a single-phase AC and provides precise positioning of blinds, so they can be set to the position you choose.

The 4-Channel Relay can be used in one of four operating modes:
4-Channel Relay Controller - Control up to 4 relay-controlled devices
Dual-Channel Curtain Controller - Control up to 2 dual channel curtains or blinds
Single-Channel Curtain Controller - Control a single high-wattage curtain, blind or gate up to 300W at 240V AC and 150W at 120V AC
Fan-Light Controller - Control a three-speed fan and a light

Technical specification

Power input	110 – 240 VAC, 50Hz / 60Hz
Operating temperature	-10 to +35 °C
Relative humidity	5 % – 95%
Dimensions	49mm x 49 mm x 18mm
RF frequency	2.4GHz
Power consumption	< 1 watt
Surge protection	2.5KV
Typical line of sight range	Up to 10m indoor / 10-20m outdoor
Plastic housing	Fire retardant ABS

Max Load Per Channel	240V AC	120V AC
Incandescent	600W	300W
Inductive	300W	150W
LED	150W	75W

QR codes

This document includes usage details for the 4-Channel Relay mode. Please refer to the following documents for details for additional operating modes

Please Scan the QR code below for the 4 channel Relay module module or click on the link

https://confio.in/pdf/CT4RZB.pdf

Please Scan the QR code below for the single channel curtain controller module or click on the link

https://confio.in/pdf/CTCCZB.pdf

Please Scan the QR code below for the Fan controller module or click on the link

https://confio.in/pdf/CTFLZB.pdf

Warnings and considerations

WARNING!
Turn OFF electrical power before installing or servicing this product. Improper use or installation can cause SERIOUS INJURY, DEATH or LOSS/DAMAGE OF PROPERTY.

WARNING!
This device must be protected by a circuit breaker (20A max).

WARNING!
Ground this device in accordance with the National Electric Code (NEC) requirements. DO NOT rely solely upon the yoke plate's contact with a metal wallbox for adequate grounding. Use the device's ground wire to make a secure connection to the safety ground of the electrical system.

IMPORTANT!
This device must be installed by a licensed electrician in accordance with all national and local electrical codes.

IMPORTANT!
If you are unsure about any part of these instructions, consult a qualified electrician.

IMPORTANT!
Use this device only with copper or copper-clad wire. Do not use aluminum wiring. This product has not been approved for use with aluminum wiring.

IMPORTANT!
This product generates heat during normal operation.

IMPORTANT!
Using this product in a manner other than outlined in this document voids your warranty. Further, Confio is NOT liable for any damage incurred with the misuse of this product.

Safety measures

1: Before installation, make sure that the power supply mains is turned off

2: If multiple loads are connected to a single terminal, use appropriate connectors to avoid short circuit.

3: Use only minimum 1mm2 wires and maximum 1.5mm2 wires for connections.

4: This device requires a neutral lead to operate

What you can control

1: Blinds

LED indications

Normal Led Indications

Red	Green	Device Status	Time in sec
Blinking	OFF	Ready to join network	Cont.
OFF	Blinking	Successfully joined network	Cont.
Blinking	Blinking	Joining network in process	4 sec

Node_SW Location On Device

Node switch

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Node_SW functions for Multi firmware modules

| Device Mode	Node_SW Presses	Operation	Led indications	Commands
Functional Mode	4	Join network (Start identify process)	Red & Green LED's Blinking (1sec Toggle period)	
	9	Factory Reset	Parameters will be set to default state (Both LED keep glowing until factory reset completes)	
	13	Leave network	Red LED Blinking	
	15	Restart		Device power cycle
In App_Select Mode	5	App_Select Mode	Red & Green LED's Blinking (500ms Toggle period)	Device should not be in Mesh network while selecting Applications. After 5 times pressing if user not selected any application within 30 sec by pressing 1 or 2 times, device will go to previous application state.
	1	To select 4-channel relay application	Red LED Blinking (500ms Toggle period) Until device includes to Mesh network	Refer 4 channel Relay Manual for operations
	2	To select Dual curtain controller	Red LED Blink pattern 2 times/sec Until device includes to mesh network	
	3	To select single curtain	Red LED Blink pattern 3 times/sec Until device includes to mesh network	Refer Curtain Controller Manual for operations
	4	To select Fan control	Red LED Blink pattern 4 times/sec Until device includes to mesh network	Refer Fan Controller Manual for operations

Note: By default device application will be 4-channel relay

Circuit connection
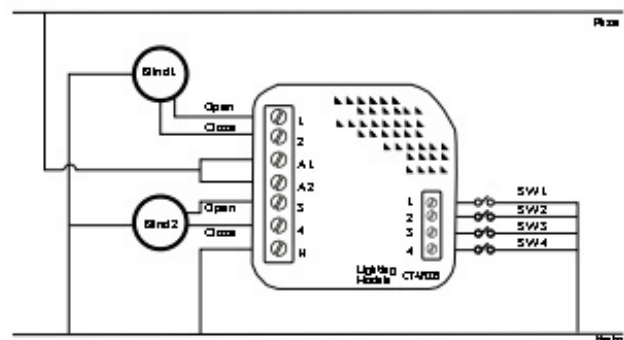
SW1->Blind1 Open, SW2->Blind1 Close
SW3->Blind2 Open, SW4->Blind2 Close

Defining Open & Close time
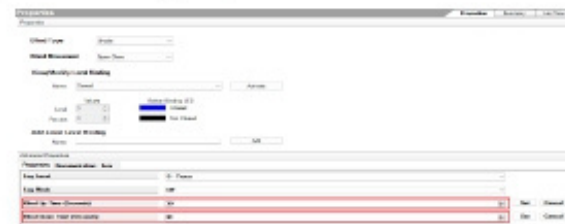
- Before defining open/close time, Calculate open/close time of blind using stopwatch.
- Default Open/close time of the device is 30sec
- Add Blind drivers: ->Actions->Add Devices
- Make sure Blind is in fully opened position before setting time either Open time or Close time
- In Blind drives set Open/Close time as shown in above image
- After setting Bling positions will show as 100% (i.e.fully opened)

Operations and Configuration

Changing modes

By default, the 4-Channel Relay Puck is configured to operate as a 4-Channel Relay.

The operating mode can be changed using one of two methods.

1: Change using the App_Select Mode button press sequence as referred to in the Hardware Installation Guide. If using the device's App_Select Mode to change operating modes, this must be done prior to adding the device to the Control4 Zigbee network.

2.Use the Change Mode function available in the Confio Puck Control4 driver's Actions. This function will allow you to choose one of the four operation modes. After changing mode once, We can not change the mode again, Until the device leaves mesh and resets.

Please refer to the Control4 Confio Puck Driver documentation for additional details

Control4 Driver

The following Control4 Drivers are available for use with the Confio 4-Channel Relay Puck.
- Confio Non-Dimmable Light
- Confio Blind
- Confio Fan

Each driver provides the required controls for each device type as used with the Confio 4-Channel Relay Puck in each of the four operating modes. The corresponding driver documentation provides additional details.

Button operations

Function	Node_SW	Aux. Contact 1 (SW_1)	Aux. Contacts 1 & 2 (SW_1 & SW_2)
Identify	4	4	N/A
ZigBee Channel	7	7	N/A
Reboot Device	15	15	N/A
Factory Reset	9	22	9-4-9
Leave Mesh & Reset	13	30	13-4-13

A. Identify
Join the device to the Control4 Zigbee network

B. Zigbee Channel
After the device is identified with the Control4 controller, the Zigbee channel is indicated by flashing both the red and green LEDs the number of times indicating the device's current Zigbee channel.

C. Reboot Device
The device will be rebooted and the relays will return to their previous state prior to rebooting.

D. Factory Reset
All of the device's parameters will all be reset to the factory defaults, except for the Zigbee network parameters. The device will remain connected to the Zigbee network.
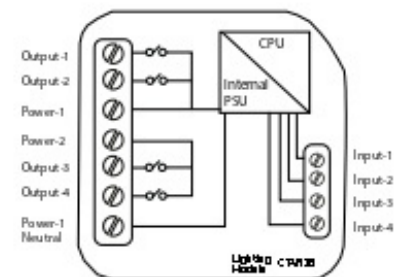
E. Leave Mesh and Reset
Reset all of the device's parameters to factory defaults including the Zigbee network parameters. The device will be removed from the Zigbee network.

Device Dimensions
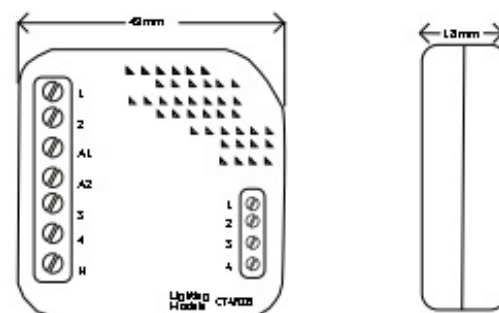
Internal Block Diagram

As indicated Power 2 is not tied to the neutral or input terminals, care must be taken if power is sourced from a different RCD to alleviate tripping.

Important instructions

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

Common issues

Pairing not working: Confirm that the remote controller and the device are within 3 meters from each other while adding to the gateway.

Warranty

A standard warranty of 24 months from the date of supply is applicable for all products.

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, floods, storms, fires, lightning, and 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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