Lighting Design Guide

Control4™

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Introduction

Introduction

Control4® lighting solutions represent a breakthrough in automated lighting control, delivering a platform that combines the best in dealer installation opportunities, integration simplicity, system support, and end-user customization. With demand in lighting control and the need for energy efficiency increasing every day, Control4 offers a complete solution that maximizes dealer lighting success.

A complete control solution

Control4 lighting solutions are just one aspect of a larger automation system that includes everything from multi-room audio to one-touch entertainment, climate control, security, and so much more. Now you can provide clients with the freedom, flexibility, and convenience to change a mood or create a different ambiance in one touch—or even automatically. And with elegant, customized Control4 user interfaces such as keypads and touch screens, you can give end users complete control of their environment.

Small- to large-scale installations

Control4 lighting solutions are completely modular, allowing clients to start with one room, while also accommodating future room additions or changes. Likewise, you can also start from the beginning with a large-scale installation that incorporates many rooms and loads. Whether small or large, you always get a premium lighting control experience.

New or existing construction

Whether your client is building a brand-new custom home or remodeling a century-old estate, Control4 lighting supports all construction types. With wired and wireless solutions, dealers can choose which products best fit each application. Additionally, wired and wireless products can be combined to deliver the best of both worlds—wired keypads in key areas of the home where consolidation of controls is of upmost importance, while providing wireless controls in areas where pulling wiring is impractical or not wanted.

Comprehensive control options

Advanced lighting technologies—Control4 lighting controls are compatible with the latest lighting technologies including LED bulbs and fixtures, with additional support of forward and reverse phase loads.

120, 240, and 277V support—Control4 lighting products support most 120V, 240V, and 277V installations, perfect for both residential and commercial applications.

Enhanced user interface customization

Wide range of colors and finishes—A wide assortment of button and faceplate colors are available, including five gloss and four satin color options. Three metal faceplate finishes are also available to provide the perfect combination of color and texture for virtually any room's décor.

Keypad button configuration—Configurable keypads include an assortment of button sizes that can be arranged in up to 37 configurations.

Custom engraving—All buttons can be custom engraved using an intuitive tool within Composer Pro. Button sizes and engraving can be quickly set up for each device, and a report can be generated to review each device with your customer. After it's finalized, the report can be uploaded to the Control4 online store for quick and accurate ordering.

Programmable RGB LEDs—Button backlighting and status indicators feature RGB LEDs that can be customized with an array of color options using Composer Pro software. For example, status LEDs can be programmed, independent of button backlighting, to provide visual feedback of lighting, scenes, or other devices in the Control4 system. Also, an ambient lighting sensor on each control automatically adjusts backlight and status LED brightness based on the ambient lighting in the room.

Consumer scene editing—After living with their system for awhile, your clients can tweak, customize, and even add lighting scenes on the fly right from Control4 touch screens.

Integration simplicity

Control4 lighting products deliver a seamless integration experience, removing the complexity associated with integrating third-party lighting systems. Utilizing the power and simplicity of Composer Pro software, large lighting systems can be put together in hours rather than days, saving you and your customer precious time and money.

Best-in-class dealer tools and support

Lighting System Design Service—This service allows dealers to submit a project's lighting design to Control4, ensuring that it is fully optimized for Control4 Panelized or Wireless Lighting systems. The service provides Control4 and third-party product recommendations, suggested installation locations of Control4 products, and modification of load schedules and construction plans to best integrate Control4 Panelized and Wireless Lighting systems.

Lighting Fixture Compatibility Database and Service—This web-based database allows dealers to quickly search for third-party lighting fixtures that have been tested and are compatible with Control4 Panelized and Wireless Lighting products. In addition, fixtures that require verification can be submitted to Control4 for testing. By utilizing this database and service in the planning stages of every project, dealers can ensure accurate client proposals and proper system operation.

Training resources—Comprehensive technical training is available on Control4 University, including courses on lighting fundamentals, Panelized and Wireless Lighting system installation, basic to advanced Composer Pro programming, and an assortment of product overview videos.

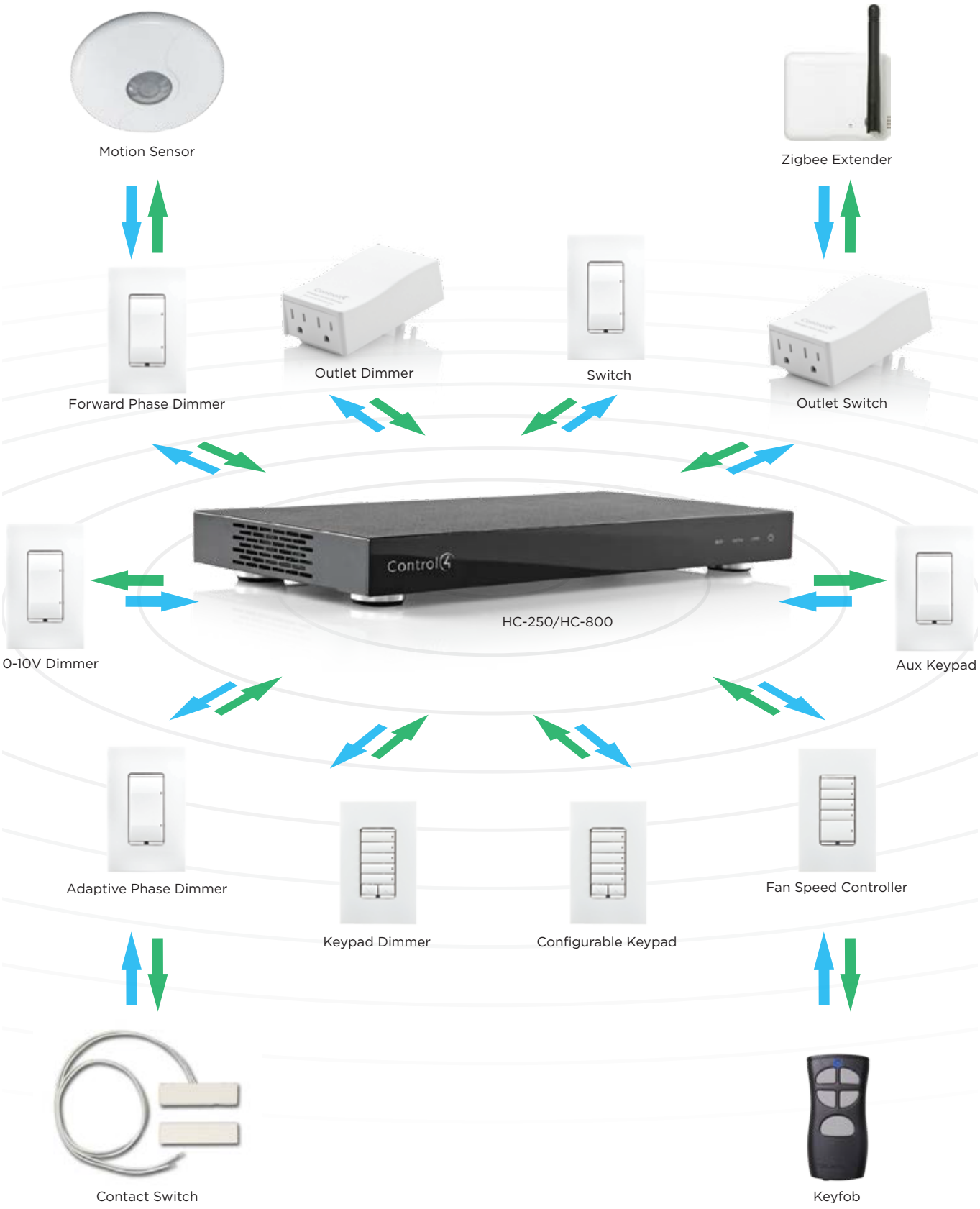
Sales tools—An assortment of sales tools, including demo kits, color swatch kits, brochures, and solutions cut-sheets, help you get clients excited about the possibilities of Control4 lighting solutions.

Engraving ordering—All button engraving is entered in Composer Pro, with the ability to print an engraving report for review and client sign-off. After engraving information is finalized, all engraving data can be uploaded to the Control4 online store for simplified ordering. Individual buttons can also be ordered from the online store when only a few buttons are needed.

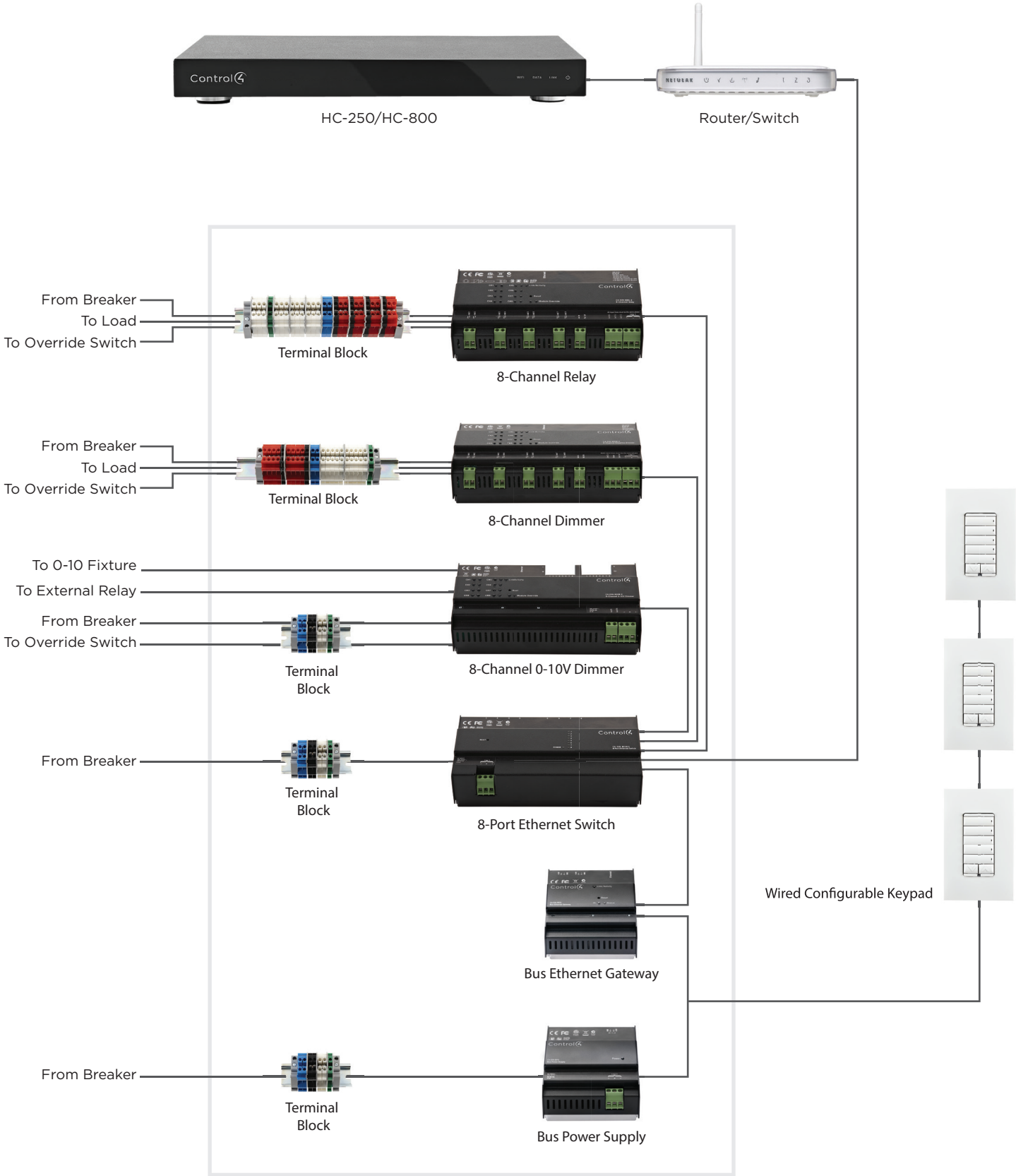
Technical documentation—A comprehensive set of quick start, installation, wiring, and configuration guides, available on the dealer portal, assist in installation for every project.

Award-winning service and support team—Ready when you need them, the Control4 service and tech support teams ensure successful installations, optimized system performance, and satisfied clients.

Wireless Lighting components



Panelized Lighting components



System Design & Specification

System design types

At the beginning of the system design process, you will need to consider a number of factors about the project:

- Construction type (new or existing)
- Construction materials
- Building size and layout
- Load types and requirements
- Room aesthetics

These factors will largely determine the type of Control4 lighting solution you should specify for your client. Awareness of the key system design types is a good first step in determining the ideal lighting solution for a given project. Control4 lighting solutions can be placed into four main categories:

- Wireless
- Centralized (Panelized Lighting)
- Distributed (Panelized Lighting)
- Hybrid (Panelized and Wireless Lighting)

NOTE: *Control4 provides a Lighting Design Review Service to help dealers in the correct specification of Control4 equipment before client proposal and purchase.*

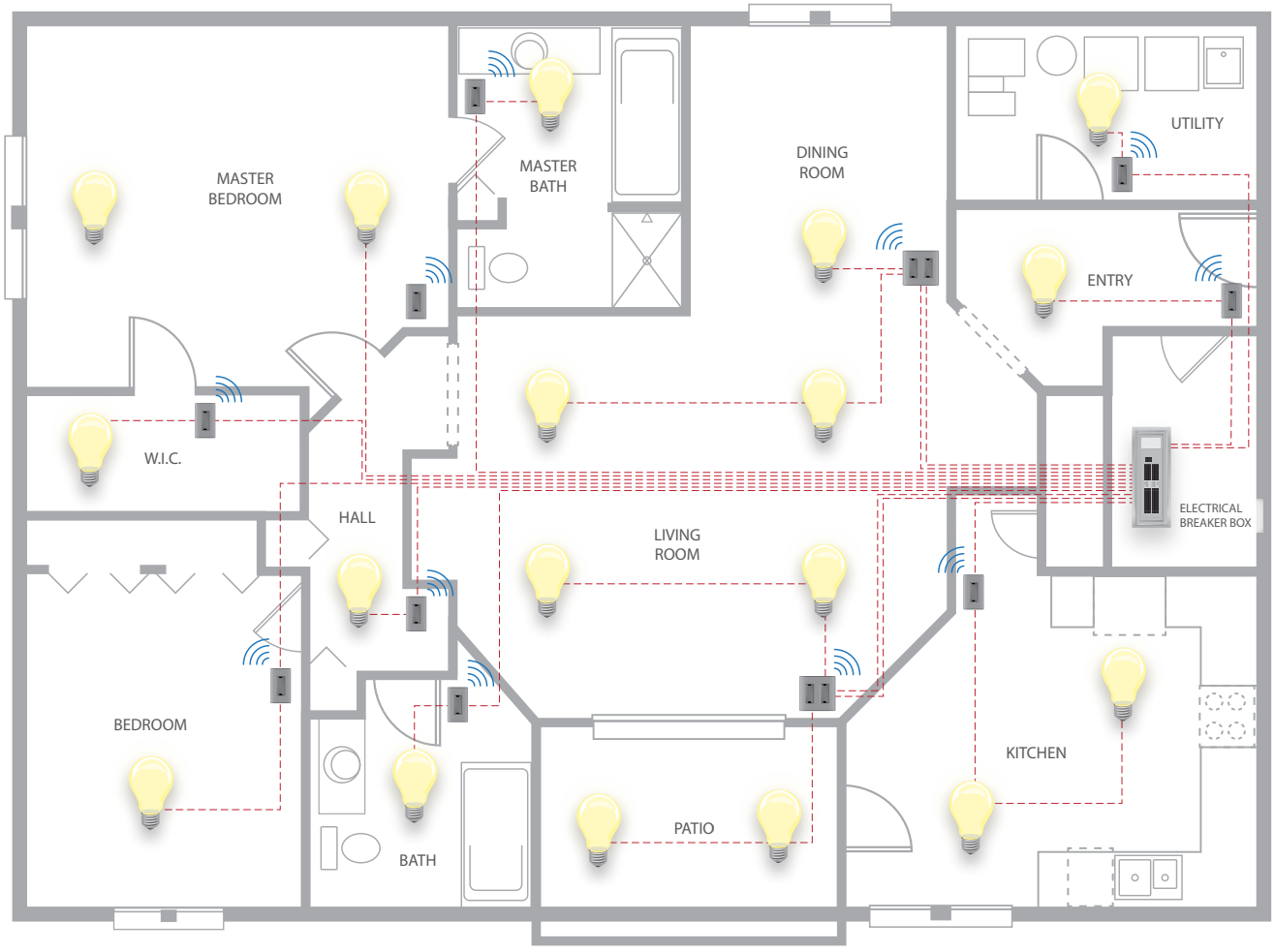
NOTE: *A recommended process for planning, specifying, and installing Control4 lighting projects is listed in the Appendix.*

Wireless

Control4 Wireless Lighting devices feature time-tested and reliable ZigBee• two-way wireless communication. ZigBee is a standards-based, wireless mesh technology designed to address the unique needs of low-cost, low-power wireless sensor and control networks, eliminating the need for control wiring to be pulled throughout a home or business. Utilizing a wireless mesh topology, every Control4 wireless switch, dimmer, or keypad serves as a wireless repeater, providing increased range and network reliability due to signal redundancy. All Control4 wireless switches and dimmers are compatible with traditional electrical wiring standards, allowing basic controls to be easily upgraded to intelligent lighting.

Recommendations

Wireless Lighting systems are ideal for both existing construction and new construction installations. It's the best solution for clients who already have electrical wiring in place or want to route all electrical wiring the traditional way (to wall switches and then to loads). There are applications where wireless communications can be problematic due to building size, construction materials, or wireless interference. In these projects, care must be given to deploy wireless nodes, repeaters, and ZigBee extenders/ZigBee access points to ensure good lighting performance. Building size and construction materials have an impact on overall system performance. See Control4 training materials for best practices on ZigBee installation.

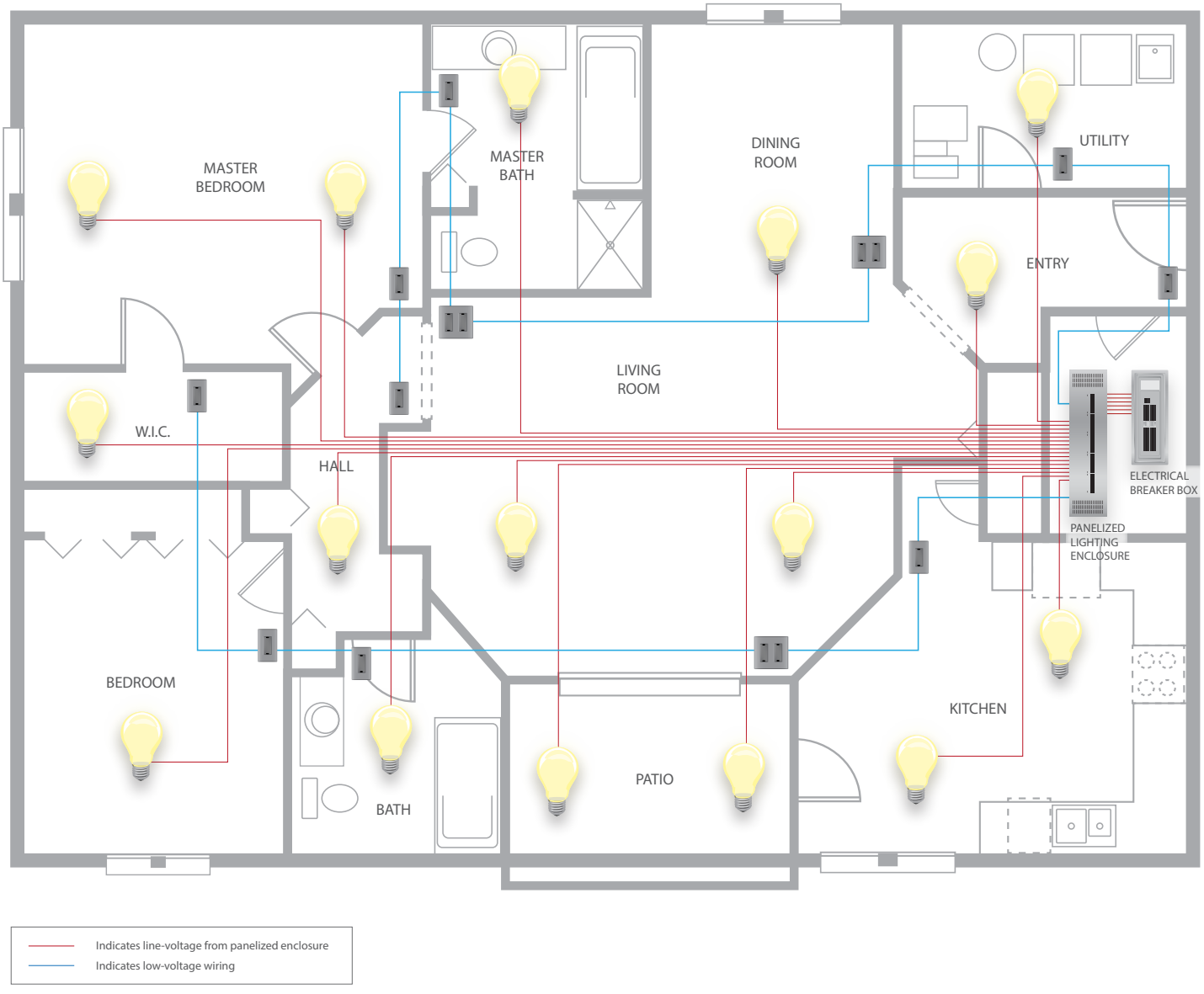


Centralized (Panelized Lighting)

Centralized lighting systems require that all electrical wiring is first routed from the circuit breaker to a centrally located Control4 panel (or panels) that contains load control modules. These panels are typically located in an equipment closet or utility room. Electrical connections from the centralized load modules are wired directly to each light or load. Instead of traditional switches and dimmers in each room, all switching and dimming is performed by modules mounted in the centralized panel. Control over each light or load is achieved using elegant keypads and touch screens, placed throughout the home or business. Wired versions of the keypads and touch screens are wired back to the centralized panel using low-voltage wiring.

Recommendations

Centralized lighting systems are ideal for new construction projects. They can be used in significant remodeling projects where there is open-wall access throughout, but substantial changes to electrical wiring are required. Centralized lighting systems are the solution of choice for clients who want to eliminate wall clutter (multiple switches in each room) and replace it with a single elegant keypad. They are also the ideal choice for larger residential and commercial lighting projects.

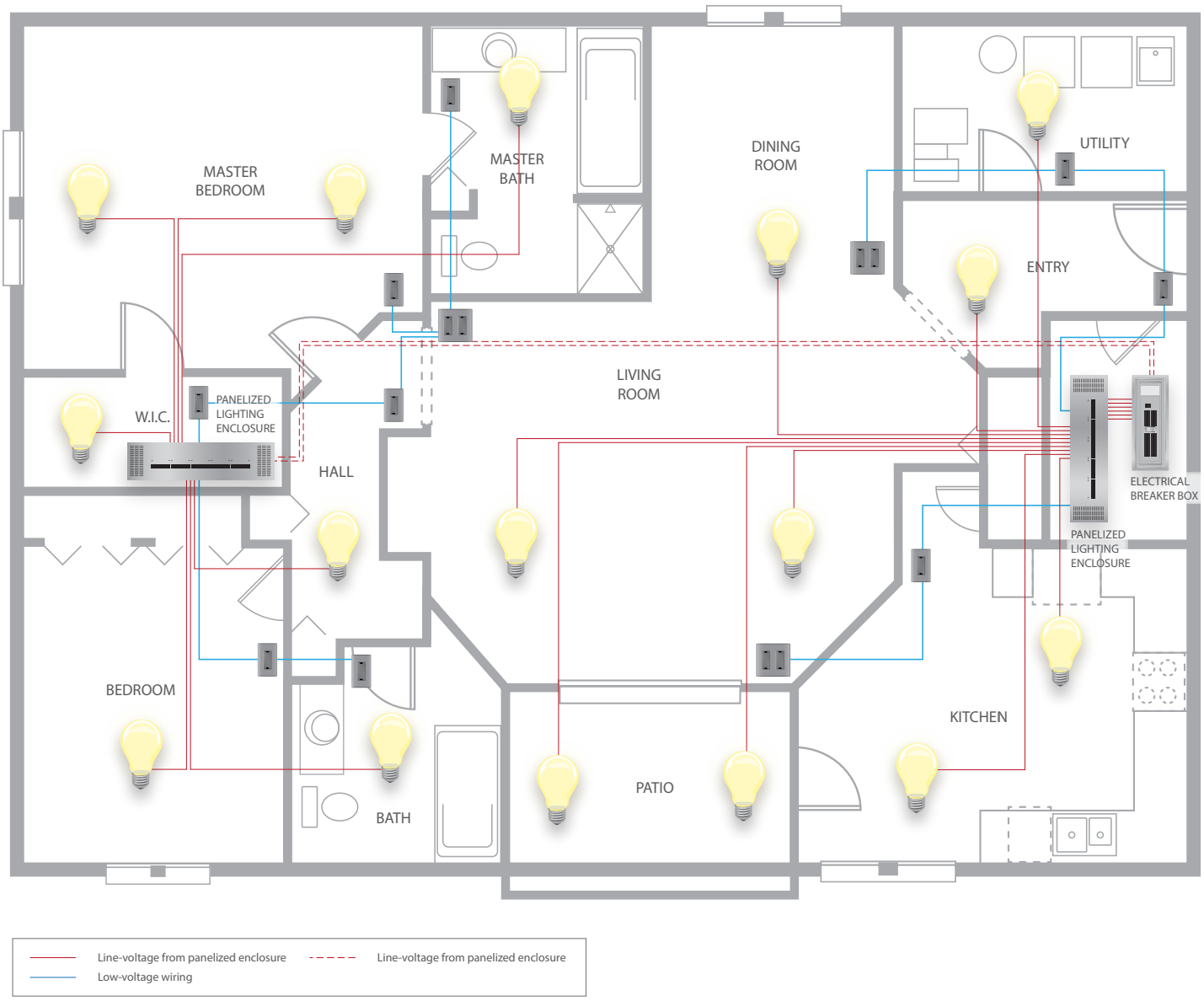


Distributed (Panelized Lighting)

A distributed lighting design is nearly identical to a centralized design, but includes two or more Control4 panel locations throughout the home. In this design, electrical wiring is routed from the breaker box to designated panel locations, and then to the loads. The advantage of this topology is that the Panelized Lighting modules can be distributed, saving wiring costs and utilizing spaces in closets and equipment rooms around the home rather than in one large equipment room.

Recommendations

Similar to centralized lighting systems, a distributed lighting system is ideal for new construction and is often used in the largest residential and commercial lighting projects. They are especially convenient in buildings with multiple breaker locations.

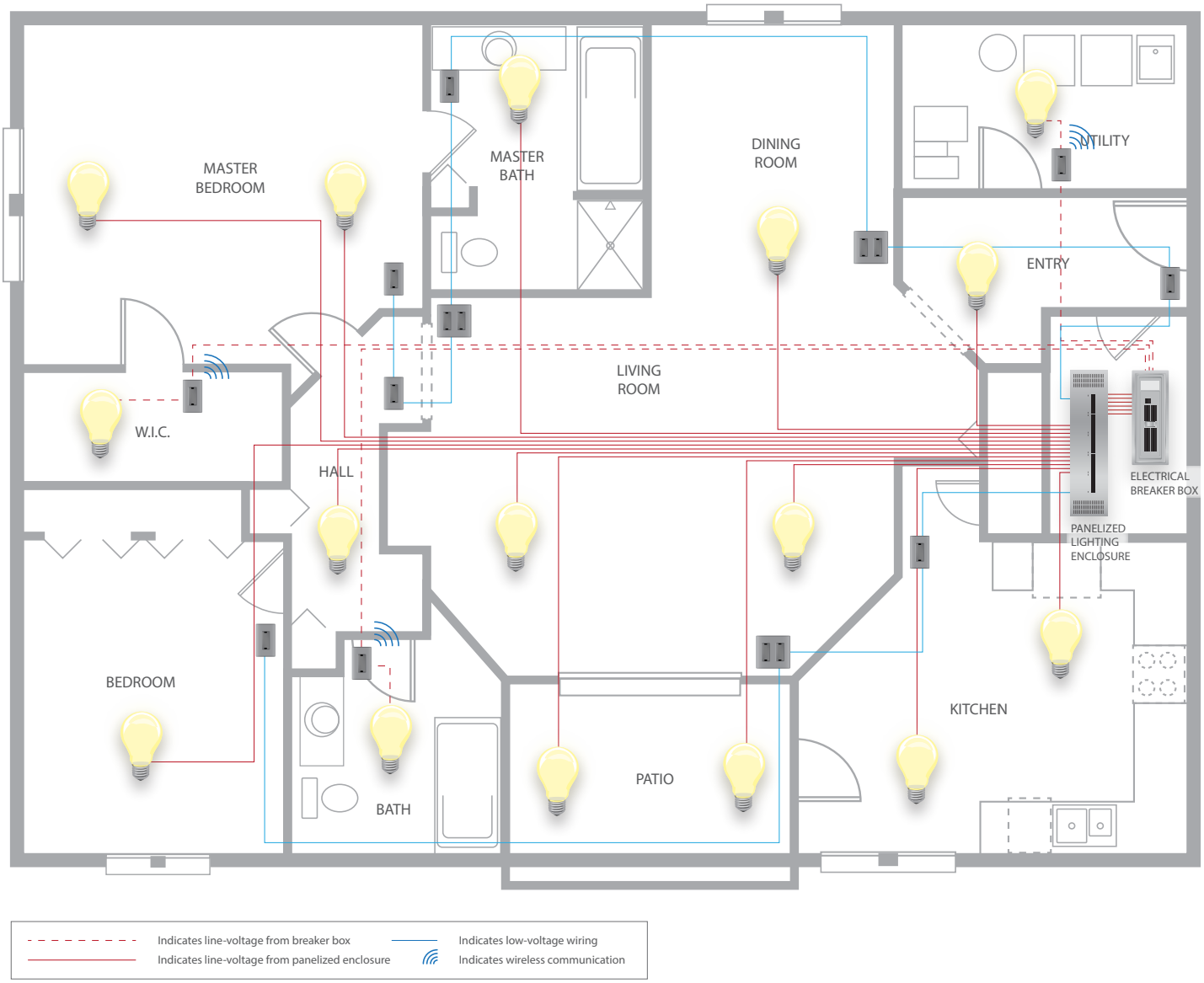


Hybrid (Wireless and Panelized Lighting)

A hybrid lighting design combines a centralized or distributed Panelized Lighting design with localized Control4 wireless switches and dimmers. This design gives the flexibility to place elegant wired keypads or touch screens in prominent areas, such as living rooms, dining rooms, kitchens and foyers, while providing familiar toggle switches and dimmers in areas such as guest rooms and closets.

Recommendations

Like centralized and distributed lighting systems, hybrid lighting systems are ideal for new construction, but they are also a great solution for renovations that include a new addition to an existing structure. For example, Panelized Lighting can be used in the new addition, while wireless can be used in the existing construction area. Hybrid system designs are considered “best practice” by Control4, because the Panelized Lighting system provides a great aesthetic implementation through elegant keypads. Placing several wireless keypads and load control devices helps to build a strong wireless “mesh” in the home. This wireless mesh helps with the wireless reliability of other Control4 devices such as battery-operated remote controls.



Specifying a system

During initial meetings with the project's key decision makers and influencers (Control4 dealer, client, architect, interior designer, and lighting designer), key elements of design should be agreed upon by all parties. Following are three elements needed to correctly specify a Control4 lighting system—the electrical floor plan, the electrical panel schedule, the light fixture schedule, and the fixture datasheets.

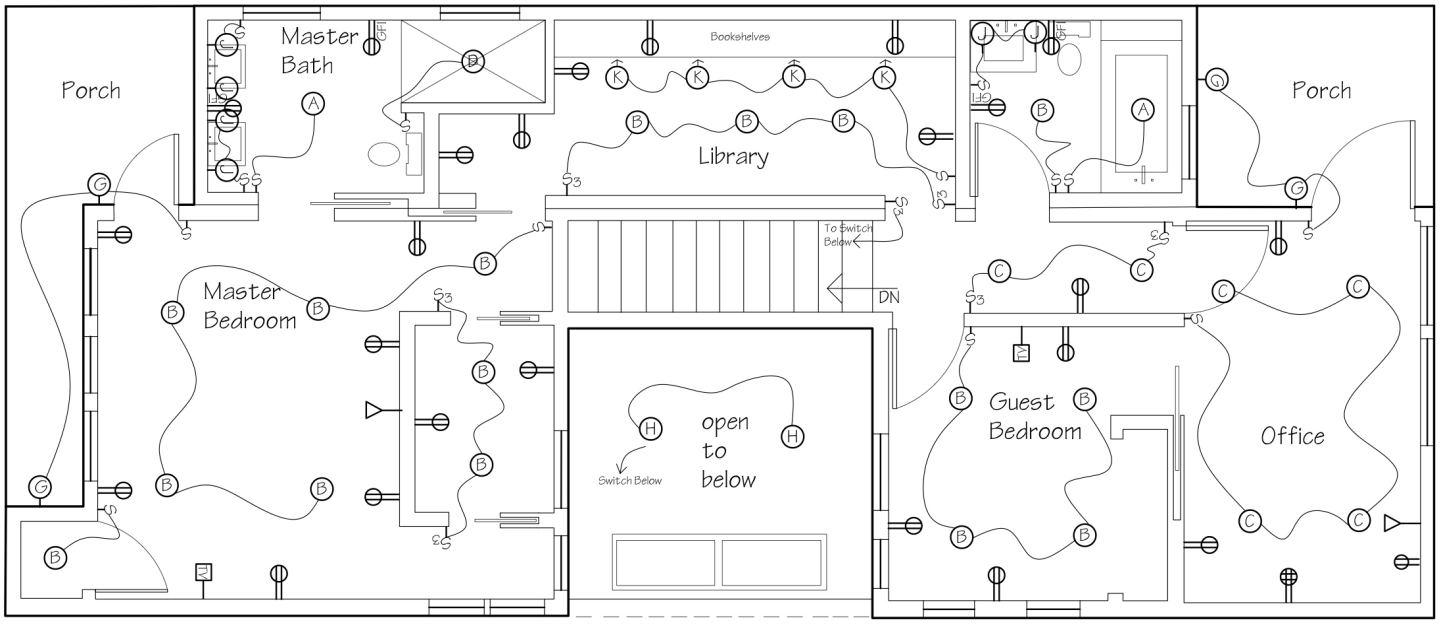
Note: A recommended process for planning, specifying, and installing Control4 lighting projects is listed in the Appendix.

Electrical floor plan

A detailed electrical floor plan is generated by the architect, general contractor, electrician, or electrical engineer. It typically includes:

- Placement of typical lighting control devices such as switches and dimmers.
- Electrical wiring schematic between circuit breakers, load control devices, and luminaries.
- Location of transformers and LED drivers that aren't integral to a fixture.
- Designated locations for electrical panels and possible locations for Control4 panels (for Control4 Panelized Lighting systems).
- Placement of electrical receptacles.

Note: Watch for switched receptacles and recommend replacing these with Wireless Outlet Dimmers or Wireless Outlet Switches.



LIGHTING AND ELECTRICAL PLAN - FLOOR TWO

SCALE: 1/4" = 1' - 0"

Electrical panel schedule

Details from the electrical floor plan are used by the electrical engineer to create the panel schedule(s). This important source of information provides details regarding every electrical load and how it is connected to a panel board circuit. The schedule provides key information, such as:

- Load description
- Voltage and current requirements
- Circuit breaker numbers (or addresses)
- ARC-FAULT requirements
- Wire/Conductor size

Light fixture schedule

The light fixture schedule can contain the following information:

- Dimmable vs. switchable loads
- Dimming level requirements
- 0-10V dimming requirements
- Location of low-voltage lighting transformers or driver circuitry*
- Color (RGB) lighting control requirements
- Plug load control locations*

** This item should be shown on the plans for location, but could be described on the light fixture schedule.*

Electrical panel schedule

PANEL: "A"

VOLTAGE: 120/240 1Ø 3W — BUS: 200 AMPS
MOUNTING: FLUSH — MAINS: MLO
AIC: 22,000 A.I.C. — POLES: 42

CKT No	POLE	CKT BKR CB	CKT BKR TRIP	KW	LOAD DESCRIPTION	WIRE	COND. SIZE	NOTES
1	1	TQL	20	14.0	BEDROOM LIGHTS & RECEPTACLES	2#12 THHN		(1)
3	1	TQL	20	(.)	BEDROOM LIGHTS & RECEPTACLES	2#12 THHN		(1)
5	1	TQL	20	(.)	BEDROOM LIGHTS & RECEPTACLES	2#12 THHN		(1)
7	1	TQL	20	(.)	BEDROOM LIGHTS & RECEPTACLES	2#12 THHN		(1)
9	1	TQL	20	(.)	GENERAL LIGHTS & RECEPTACLES	2#12 THHN		(1)
11	1	TQL	20	(.)	GENERAL LIGHTS & RECEPTACLES	2#12 THHN		(1)
13	1	TQL	20	(.)	GENERAL LIGHTS & RECEPTACLES	2#12 THHN		(1)
15	1	TQL	20	(.)	GENERAL LIGHTS & RECEPTACLES	2#12 THHN		(1)
17	1	TQL	20	(.)	GENERAL LIGHTS & RECEPTACLES	2#12 THHN		(1)
19	1	TQL	20	(.)	GENERAL LIGHTS & RECEPTACLES	2#12 THHN		(1)
21	1	TQL	20	(.)	GENERAL LIGHTS & RECEPTACLES	2#12 THHN		(1)
23	1	TQL	20	(.)	BEDROOM LIGHTS & RECEPTACLES	2#12 THHN		(1)
25	1	TQL	20	(.)	BEDROOM LIGHTS & RECEPTACLES	2#12 THHN		(1)
27	1	TQL	20	(.)	STAIR LIGHTS	2#12 THHN		(1)
29	1	TQL	20	(.)	ROO/STAIR LIGHTS	2#12 THHN		(1)
31	1	TQL	20	(.)	GENERAL LIGHTS & RECEPTACLES	2#12 THHN		(1)
33	1	TQL	20	(.)	GENERAL LIGHTS & RECEPTACLES	2#12 THHN		(1)
35	2	HACR	30	5.5	AHU-1	3#10 THHN		
37								
39	2	HACR	20	(.)	COMPRESS-1	3#12 THHN		
41								

CKT No	POLE	CKT BKR CB	CKT BKR TRIP	KW	LOAD DESCRIPTION	WIRE	COND. SIZE	NOTES
2	1	TQL	20	(.)	BATH RECEPTACLES	2#12 THHN		
4	1	TQL	20	(.)	BATH RECEPTACLES	2#12 THHN		
6	1	TQL	20	(.)	GENERAL LIGHTS & RECEPTACLES	2#12 THHN		
8	1	TQL	20	1.0	A/V EQUIPMENT	3#12 THHN		
10	1	TQL	20	1.0	A/V EQUIPMENT	3#12 THHN		
12	1	TQL	20	1.0	A/V EQUIPMENT	3#12 THHN		
14	1	TQL	20	1.5	LAUNDRY RECEPTACLES	2#12 THHN		
16	2	TQL	30	5.0	DRYER	2#10 THHN		
18								
20	1	TQL	20	1.5	WASHING MACHINE	2#12 THHN		
22	1	TQL	20	0.5	U/C REFRIGERATOR	2#12 THHN		
24	1	TQL	20	0.5	GARAGE DOOR OPENER-1	2#12 THHN		
26	1	TQL	20	0.5	GARAGE DOOR OPENER-1	2#12 THHN		
28	1	TQL	20	(.)	GENERAL LIGHTS & RECEPTACLES	2#12 THHN		
30	1	TQL	20	0.8	RECIRCULATING PUMP	2#12 THHN		
32	1	TQL	35	6.0	E.W.H.	3#10 THHN		
34								
36	2	HACR	50	11.0	AHU-2	3#6 THWN		
38								
40	2	HACR	50	(.)	COMPRESS-2	3#6 THWN		
42								

LOAD CALCULATION
APPROX. 4,650 SQ. FT. X 3 WATTS = 13,900 WATTS

(1) ARC- FAULT INTERRUPTER

TAMPER RESISTANCE
(SEE NEC 2008 406.11, FOR TAMPER RESISTANT RECEPTACLE REQUIREMENTS).

LOAD CALCULATIONS

FIRST 10.0 KW @ 100%	10.0 KW
AC @ 100%	16.5 KW
NEXT 23.3 KW @ 40%	9.3 KW
	35.8 KW = 148.9 AMPS

TOTAL CONNECTED	49.8

Light fixture schedule

LIGHT FIXTURE SCHEDULE

FIXTURE NUMBER	FIXTURE MANUFACTURER	FIXTURE CATALOG #	DESCRIPTION	LAMPS TYPE	LAMPS QTY.	FIXTURE VOLTS	FIXTURE WATTS	FIXTURE MOUNTING	REMARKS
A	METALUX DAYBRITE	2GC8-332A125-EB81 2DPG332-FS12-1/3EB	2X4 PRISMATIC LAYIN FIXTURE SPECIFICATION GRADE (3-LAMP)	F32T8/SP35 ECO	3	120	99	LAY-IN GRID	
B	METALUX DAYBRITE	2GC8-332A125-EB81 2DPG332-FS12-1/3EB	2X4 PRISMATIC LAYIN FIXTURE SPECIFICATION GRADE (3-LAMP)	F32T8/SP35 ECO	3	120	99	LAY-IN GRID	
C	IRIS	P3LED09-NFL25-927-E010	RECESSED 3.5" APERTURE DOWNLIGHT LUMINAIRE	900 LED	1	120-277	14.7	RECESSED	0-10V 10% DIMMING
D	CREE OMEGA	LR6C-H6-LT6A-DIR -	LED DOWNLIGHT W/ANODIZED TRIM 650 LUMENS	650L LED	1	120	12	RECESSED	3-WIRE AND ECOSYSTEM 1% DIMMING, LUTRON A SERIES
E	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
F	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
G	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	

NOTE:
ELECTRICAL CONTRACTOR SHALL PROVIDE A 'QUICK DISCONNECT HARNESS' FOR EACH FLUORESCENT LIGHTING FIXTURE TO SERVE AS A MEANS OF DISCONNECT TO ALLOW THE FIXTURE BALLAST TO BE SERVICED IN PLACE, AS PER THE NATIONAL ELECTRICAL CODE 2008, ARTICLE 410.130 (G).

Fixture datasheets

Generally, the load schedule will reference the datasheets for the lighting fixtures being specified. Key information is provided in these datasheets, such as:

- Voltage (line-voltage or low-voltage)
- Required dimming control technology
- Transformer or LED driver specifics
  - A fixture datasheet will often list multiple transformer or driver options. In this case, it's critical to determine which of the options is actually being used.
  - To determine the required dimming type, it may be necessary to obtain a separate datasheet for the transformer or driver.

From the load schedule, the electrical floor plan, and the fixture datasheets, the following can be determined:

- Type and quantity of switches and dimmers to specify (Wireless).
- Type and quantity of lighting modules to specify (Panelized).

  Tip: Use Composer Pro to determine the correct lighting module quantity to specify.
- Type and quantity of terminal blocks to specify (Panelized).
- Enclosure size and quantity to specify (Panelized).
- Location of switches, dimmers, keypads and touch screens.
- Low-voltage wiring requirements.
- Locations for plug load control.

Note: Control4 provides a database of compatible light fixtures and bulbs. Control4 also offers a load compatibility testing service. For the database and details to submit a fixture or load for testing by Control4, see: *http://dealer.control4.com/dealer/support/lighting-compatibility*

After all of the above have been defined, a detailed list of Control4 equipment can be generated, which can be used for client proposals and future orders placed with Control4.

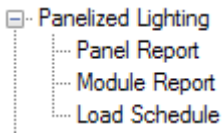
Create Composer Pro reports for electricians (Panelized Lighting)

Control4 Composer Pro installation software generates reports that are essential for giving the electrician the necessary information to properly wire a Panelized Lighting system. Using the electrical panel schedule and other information obtained as defined above, the entire project can be created in Composer Pro using Virtual Director.

To create Panelized Lighting reports from Composer Pro:

1. Create a Composer Pro project.
2. In the project's main *Properties* page, set the appropriate Lighting Defaults.
3. Add the project structure's basic building, floor, and room definitions to the project.
4. Add the loads that will be controlled by the Panelized Lighting system to their respective rooms, then enter the wattage and load number for each load.

   Tip: Use the Light Properties agent for faster entry of load properties.
5. Add the Panelized Lighting panels and modules to the appropriate rooms. Enter module-specific information, such as the number of circuits, breaker size and type, and auxiliary override switch location.
6. In the *Connections* tab, make the connections between the modules and the loads.
7. Click **Tools**, then **Reports** to view available reports.



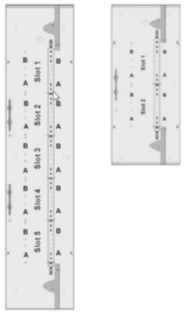
   - **Panel Report**—Lists all Control4 panels in the project. Each panel shows the modules and associated terminal blocks that should be installed in each slot.
   - **Module Report**—Lists each Panelized Lighting module, its location in the panel, the circuit breaker information for the module, and all loads connected to the module.
   - **Load Schedule Report**—Lists all Panelized Lighting-controlled loads in the project, including the load number, name, location, wattage, and the specific module connection point.
8. Select the Panelized Lighting report to generate, then click **Display Report**. The report displays on the screen.
9. Click the **Print** button ( ) to print, or click the **Export** button ( ) to export into Excel, PDF, or Word format.
10. Give the reports to the electrician to use as a reference.

    Tip: For more information on creating Panelized Lighting reports in Composer Pro, view the Panelized Lighting Composer training on Control4 University.

Note: Control4 provides a Lighting Design Review Service to help dealers in the correct specification of equipment before client proposal and purchase.

Example reports

Panel report



Summary

Panel Name	Location	Panel Type
5-Slot Panel	House > Basement > Mechanical Room	C4-DIN-5PAN
2-Slot Panel	House > Basement > Mechanical Room	C4-DIN-2PAN

5-Slot Panel

Panel Type: C4-DIN-5PAN				
Location: House > Basement > Mechanical Room				
Slot #	**Position**	**Module Type**	**Module Description**	**Terminal Block**
1	A&B	C4-DIN-8DIM-E	8-Channel Dimmer	C4-DIN-TB-8DIM
2	A&B	C4-DIN-8DIM-E	8-Channel Dimmer	C4-DIN-TB-8DIM
3	A&B	C4-DIN-8DIM-E	8-Channel Dimmer	C4-DIN-TB-8DIM
4	A&B	C4-DIN-8REL-E	8-Channel Relay	C4-DIN-TB-8REL
5	A&B	C4-DIN-8ESW-E	8-Port Ethernet Switch	C4-DIN-TB-PO

2-Slot Panel

Panel Type: C4-DIN-2PAN
Location: House > Basement > Mechanical Room

Module report

Module Report

Control4

Project: Stephenson House

10/4/2012 10:13:24 AM

Panel: 5-Slot Panel

Location: House > Basement > Mechanical Room

Slot #: 1 **Position #:** A&B

Module Type: C4-DIN-8DIM-E **Terminal Block:** C4-DIN-TB-8DIM

Voltage: 120V

Line In #1: 15 Amp Arc Fault **Line In #2:** 15 Amp Arc Fault

Important: All circuit breakers connected to a module must be the same phase.

Auxiliary Override Switch Location:

Channel #	Load #	Load Name	Load Location	Watts	Power Booster?
1	01-03-01	Overhead Lights	House > Basement > Studio	300	N
2	01-03-02	Fan Light	House > Basement > Studio	280	N
3	01-03-03	Alcove Lights	House > Basement > Studio	225	N
4	01-03-05	Ceiling Fan	House > Basement > Studio	65	N
5	01-02-01	Overhead Lights	House > Basement > Basement Bedroom	300	N
6	01-02-03	Ceiling Fan	House > Basement > Basement Bedroom	65	N
7	01-02-02	Fan Light	House > Basement > Basement Bedroom	280	N
8	01-01-01	Stair Bottom Lights	House > Basement > Family Room	200	N

Load Schedule report

Load Schedule Report

Project: Stephenson House

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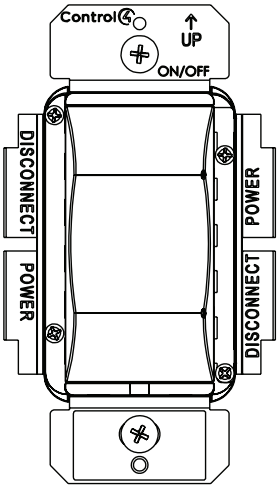
Load #	Load Name	Location	Connection	Watts
01-01-01	Stair Bottom Lights	House > Basement > Family Room	5-Slot Panel > 8-Channel Dimmer 1 > Channel 8	200
01-01-02	Bar Cans	House > Basement > Family Room	5-Slot Panel > 8-Channel Dimmer 2 > Channel 1	300
01-01-03	Central Overhead	House > Basement > Family Room	5-Slot Panel > 8-Channel Dimmer 2 > Channel 2	499
01-01-04	Bar Upper Cabinet	House > Basement > Family Room	5-Slot Panel > 8-Channel Dimmer 2 > Channel 3	150
01-01-05	Bar Pendants	House > Basement > Family Room	5-Slot Panel > 8-Channel Dimmer 2 > Channel 4	225
01-01-06	Theater Cans	House > Basement > Family Room	5-Slot Panel > 8-Channel Dimmer 2 > Channel 5	450
01-01-07	Door Lights	House > Basement > Family Room	5-Slot Panel > 8-Channel Dimmer 2 > Channel 6	100
01-01-08	Pool Table	House > Basement > Family Room	5-Slot Panel > 8-Channel Dimmer 2 > Channel 7	400
01-01-09	Theater Sconces	House > Basement > Family Room	5-Slot Panel > 8-Channel Dimmer 2 > Channel 8	450
01-01-10	Closet	House > Basement > Family Room	5-Slot Panel > 8-Channel Dimmer 3 > Channel 5	100
01-02-01	Overhead Lights	House > Basement > Basement Bedroom	5-Slot Panel > 8-Channel Dimmer 1 > Channel 5	300
01-02-02	Fan Light	House > Basement > Basement Bedroom	5-Slot Panel > 8-Channel Dimmer 1 > Channel 7	280
01-02-03	Ceiling Fan	House > Basement > Basement Bedroom	5-Slot Panel > 8-Channel Dimmer 1 > Channel 6	65
01-03-01	Overhead Lights	House > Basement > Studio	5-Slot Panel > 8-Channel Dimmer 1 > Channel 1	300
01-03-02	Fan Light	House > Basement > Studio	5-Slot Panel > 8-Channel Dimmer 1 > Channel 2	280

Wireless Lighting Specifications

Control4 Wireless Adaptive Phase Dimmer

120V (C4-APD120), 240V (C4-APD240), 277V (C4-APD277)



The Control4® Wireless Adaptive Phase Dimmer is the dimmer of choice for virtually any load type. It supports both forward phase (leading edge) and reverse phase (trailing edge) dimming.

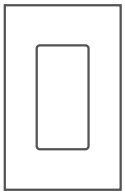
Use this device to eliminate a lot of the guesswork of choosing the right dimmer for the job. The dimmer's versatility also enables you to change the load type in the future without installing a different lighting control. Compatible with:

- LEDs
- Incandescents
- Halogens
- Electronic low-voltage (solid state) transformers
- Magnetic (iron core) low-voltage transformers
- Fluorescents
- Compact fluorescents

Product features

- Automatically detects load type and determines the appropriate dimming type. Protection circuitry helps protect it from short circuits and excessive loads.
- Automatically adapts to application with or without neutral wiring. For best performance, always use neutral wiring where possible.
- Protection circuitry helps prevent device damage from short circuits and excessive loads.
- Available in a wide array of gloss and satin colors (see Available Colors in the specifications table).
- Custom engraving is available to clearly identify each device. Backlit engraving available with programmable color control for easy readability regardless of time of day or light level.
- Ambient light sensor automatically adjusts backlight and status LED brightness for easy readability regardless of time of day or light level.
- Status and backlight LED colors can be set to reflect a device or scene status or simply to complement the room's décor.

Remember faceplates! *(Not included)*



1-Gang (C4-FP1-xx), 2-Gang (C4-FP2-xx), 3-Gang (C4-FP3-xx), 4-Gang (C4-FP4-xx), 1-Gang Square (C4-SFP1-xx)

Gloss: White (WH), Light Almond (LA), Ivory (IV), Brown (BN), Black (BL)

Satin: Snow White (SW), Midnight Black (MB), Biscuit (BI), Aluminum (AU)

Metal: Satin Nickel (SN), Stainless Steel (SS), Venetian Bronze (VB)

- Can be repurposed in Composer to act as a 2-button keypad with no direct load control.
- Minimum and maximum dimming levels can be set to account for different load types or simply to control energy usage.
- Continuously monitors energy consumption of the connected load.
- Air gap actuator on the top of the switch disconnects power to the device.

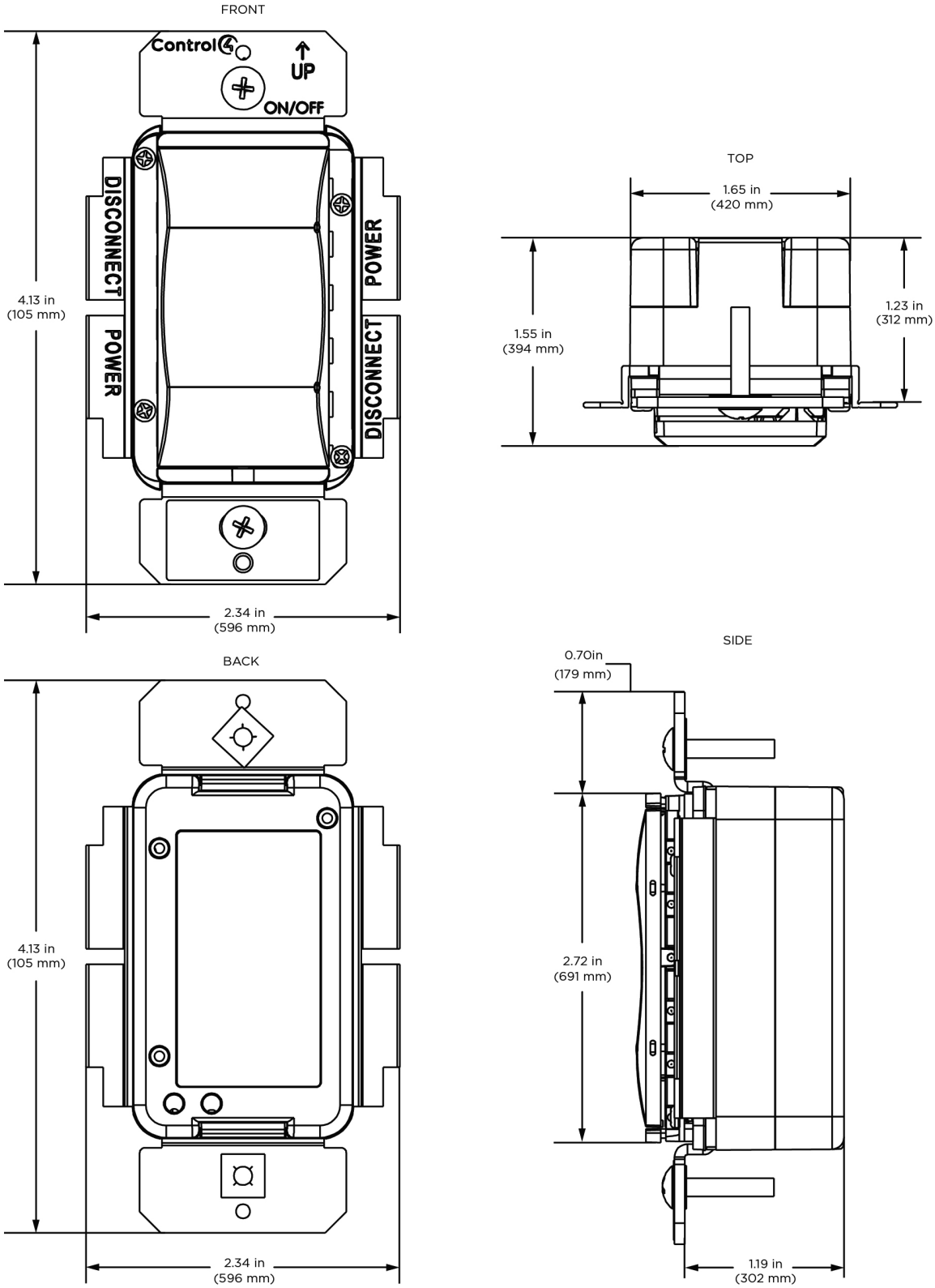
Included

- Adaptive Phase Dimmer
- Wire nuts (120V/277V) or Terminal Block (240V)
- *Adaptive Phase Dimmer Installation Guide*

Installation notes

- Follow **all** instructions in the installation guide.
- This device must be installed by a licensed electrician.
- Do not use to control non-dimmable loads.
- Requires an earth ground connection.
- Installs in a standard NEMA wall box using typical wiring standards.
- Full load control is available from the device before being identified into a project.
- Can function with or without a neutral AC connection, depending on load type. Wiring with a neutral is always the preferred wiring method (if possible). When wired without a neutral, loads may appear dimmer.
- When used in conjunction with an Auxiliary Keypad (C4-KA-xx), the wire connecting the Auxiliary Keypad to this device must not exceed 150 feet (45 meters) at 120VAC and 100 feet (30 meters) at 277VAC.
- Grounding is highly recommended for this product. Grounding will protect the device from ESD (electrostatic discharge) effects. Follow the wiring diagrams in the installation guide.
- **WARNING!** This device must be protected by a circuit breaker (20A max).

For full installation instructions and warnings, see the *Adaptive Phase Dimmer Installation Guide*. See Control4 training materials for best practices on ZigBee installation.



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Specifications

Model Numbers	C4-APD120, C4-APD240, C4-APD277
Power Requirements	C4-APD120: 120VAC +/-10%, 50/60 Hz C4-APD240: 220VAC-240VAC +/-10%, 50/60 Hz C4-APD277: 277VAC +/-10%, 50/60 Hz This device can function with or without a neutral AC connection depending on load type.
Power Consumption	C4-APD120: 450mW C4-APD240: 1.94W C4-APD277: 550mW
Load Types and Ratings	
Supported Load Types	Incandescent; Halogen; Electronic (Solid State) Low Voltage (ELV) transformers, Magnetic (Iron Core, Inductive) Low Voltage (MLV) transformers; Phase-Dimmable Fluorescents, Compact Fluorescents, and LEDs.

C4-APD120 Maximum Load	1 Gang	2 Gang	3+ Gang
Incandescent (Tungsten)	600W	550W	500W
Halogen	600W	550W	500W
Fluorescent*	300W	300W	300W
Compact Fluorescent (CFL)*	300W	300W	300W
LED*	120W	120W	120W

C4-APD240 Reverse Phase Maximum Load	1 Gang	2 Gang	3+ Gang
Incandescent (Tungsten)	800W	700W	600W
Halogen	800W	700W	600W
Fluorescent*	500W	500W	500W
Compact Fluorescent (CFL)*	500W	500W	500W
LED*	160W	160W	160W

C4-APD240 Forward Phase Maximum Load	1 Gang	2 Gang	3+ Gang
Incandescent (Tungsten)	400W	400W	400W
Halogen	400W	400W	400W
Fluorescent*	400W	400W	400W
Compact Fluorescent (CFL)*	400W	400W	400W
LED*	160W	160W	160W

C4-APD277 Maximum Load	1 Gang	2 Gang	3+ Gang
Incandescent (Tungsten)	1000W	900W	800W
Halogen	1000W	900W	800W
Fluorescent*	500W	500W	500W
Compact Fluorescent (CFL)*	500W	500W	500W
LED*	200W	200W	200W

Minimum Load (with neutral) , All Models	
All load types	1W
Minimum Load (without neutral)	
Incandescent (Tungsten)	7W
Halogen	7W
Fluorescent*	N/A
Compact Fluorescent (CFL)*	N/A
LED*	N/A

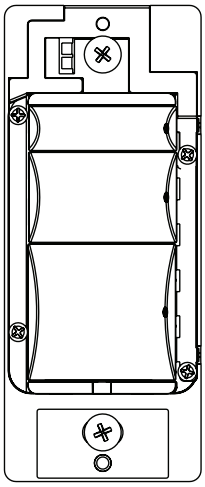
*NOTES: 1) The maximum load requirements for fluorescent, CFL and LED loads can vary greatly depending upon the specific fixture and/or bulb being used. 2) The quality and performance of these load types varies greatly from manufacturer to manufacturer. 3) The use of fluorescent, CFL, or LEDs load without a neutral wire connected to the dimmer is not recommended.

Environmental	
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C) All load ratings are based on an ambient temperature of 77°F (25˚C).
Humidity	5% to 95% non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Miscellaneous	
Control Communications	ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel spread spectrum radio
Wall box Volume	5.75 cubic inches
Weight	0.12 lb. (0.05 kg)
Shipping Weight	0.18 lb. (0.08 kg)
Available Colors	
C4-APD120-xx	WH, LA, IV, BR, BL, SW, MB, BI, AU
C4-APD240-xx	WH, BL, SW, MB, BI, AU
C4-APD277-xx	WH, LA, IV, BR, BL, SW, MB, BI, AU
Available Accessories	
Faceplate, 1 Gang (C4-FP1-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 2 Gang (C4-FP2-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 3 Gang (C4-FP3-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 4 Gang (C4-FP4-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Color Kit (C4-CKFPDAPD-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Rocker (C4-EBDR-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU

Gloss Colors: WH=White, LA=Light Almond, IV=Ivory, BR=Brown, BL=Black
Satin Colors: SW=Snow White, MB=Midnight Black, BI=Biscuit, AU=Aluminum
Metal Finishes: SN=Satin Nickel, SS=Stainless Steel, VB=Venetian Bronze

Control4 Wireless Keypad Dimmer

120V (C4-KD120), 240V (C4-KD240), 277V (C4-KD277)



The Control4® Wireless Keypad Dimmer combines the dimming capabilities of the Wireless Adaptive Phase Dimmer with the flexibility of the Wireless Configurable Keypad. Directly control the dimming of a load while giving customers one-touch access to additional device controls, scenes, and programs.

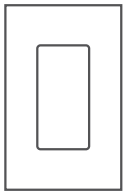
The dimmer component is compatible with:

- LEDs
- Incandescents
- Halogens
- Electronic low-voltage (solid state) transformers
- Magnetic (iron core) low-voltage transformers
- Fluorescents
- Compact fluorescents

Product features

- The keypad can be configured with two to seven buttons using four different button sizes for a total of 37 possible configurations (one button kit included). There's no need to worry about how many buttons will be needed on a specific keypad before (or even after) installation. Available buttons include single-height, double-height, triple-height, and up/down (single height).
- Protection circuitry helps prevent device damage from short circuits and excessive loads.
- Continuously monitors energy consumption of the connected load.
- Available in a wide array of gloss and satin colors (see Available Colors in the specifications table).
- Status and backlight LED colors can be set to reflect a device or scene's status or simply to complement the room's decor.
- Custom engraving is available to clearly identify each button.
- Backlit engraving available with programmable color control for easy readability regardless of time of day or light level.

Remember faceplates! *(Not included)*



1-Gang (C4-FP1-xx), 2-Gang (C4-FP2-xx), 3-Gang (C4-FP3-xx), 4-Gang (C4-FP4-xx), 1-Gang Square (C4-SFP1-xx)

Gloss: White (WH), Light Almond (LA), Ivory (IV), Brown (BN), Black (BL)

Satin: Snow White (SW), Midnight Black (MB), Biscuit (BI), Aluminum (AU)

Metal: Satin Nickel (SN), Stainless Steel (SS), Venetian Bronze (VB)

- Minimum and maximum dimming levels can be set to account for different load types or simply to control energy usage.
- Automatically adapts to application with or without neutral wiring. For best performance, always use neutral wiring where possible.
- Air gap actuator on the top of the switch disconnects power to the device.

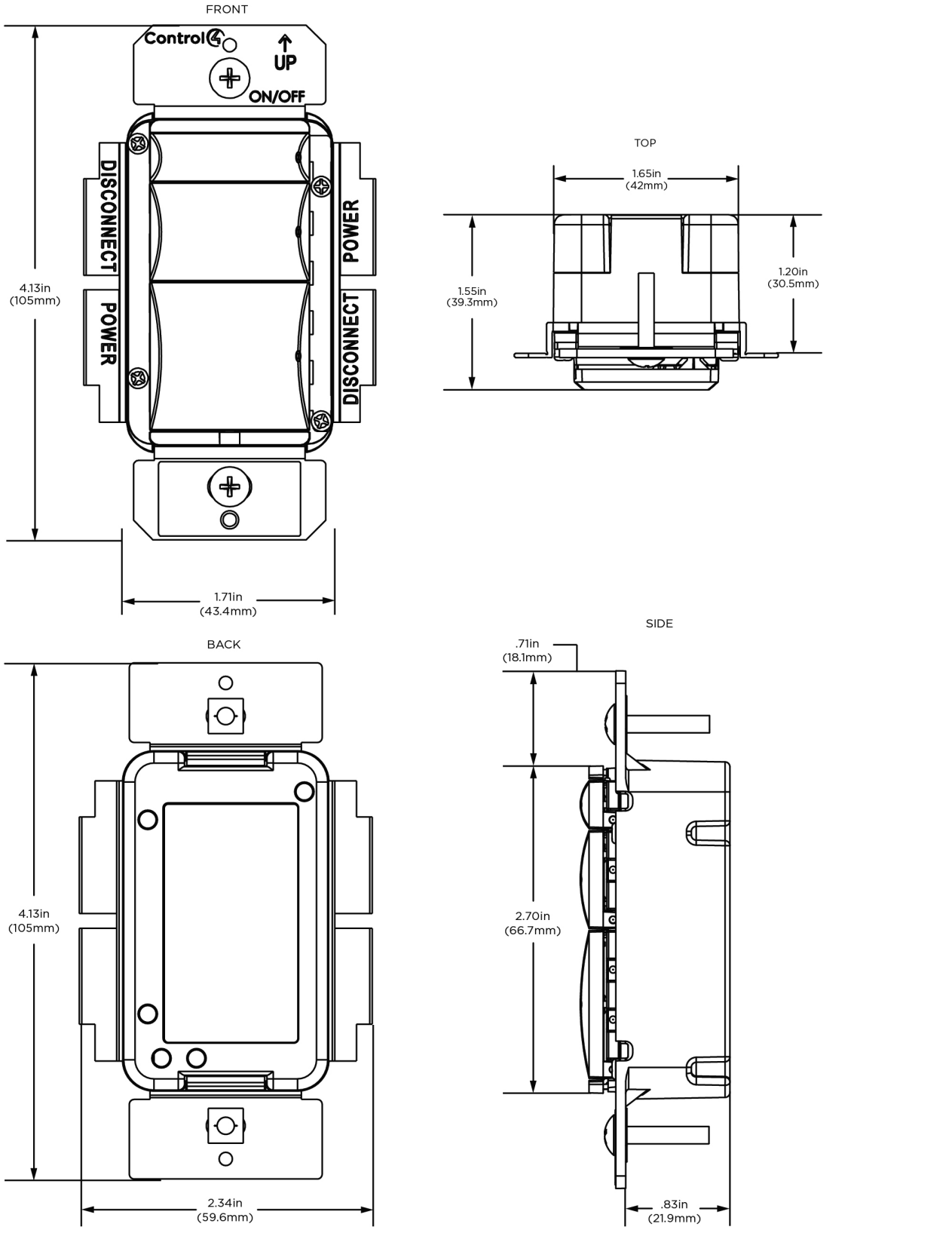
Included

- Keypad Dimmer
- Keycap Button Kit
- Wire nuts (120V/277V) or Terminal Block (240V)
- *Wireless Keypad Dimmer Installation Guide*

Installation notes

- Follow **all** instructions in the installation guide.
- This device must be installed by a licensed electrician.
- Installs in a standard NEMA wall box using typical wiring standards.
- Do not use to control non-dimmable loads.
- When used in conjunction with an Auxiliary Keypad (C4-KA-xx), the wire connecting the Auxiliary Keypad to this device must not exceed 150 feet (45 meters) at 120VAC and 100 feet (30 meters) at 277VAC.
- Can function with or without a neutral AC connection depending on load type. Wiring with a neutral is always the preferred wiring method (if possible). When wired without a neutral, loads may appear dimmer.
- Requires an earth ground connection.
- To prevent changes and delays in your custom engraving order, plan and order any custom button engraving only *after* the installation plan is finalized.
- Full load control is available from the device before being identified into a project. In this state, all buttons toggle the attached load. Best practice is to configure at least one button on the device to directly control the attached load, to ensure that load control is still possible if the connection to the Control4 system is unavailable.
- **WARNING!** This device must be protected by a circuit breaker (20A max).

For full installation instructions and warnings, see the *Wireless Keypad Dimmer Installation Guide*. See Control4 training materials for best practices on ZigBee installation.



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Specifications

Model Numbers	C4-KD120, C4-KD240, C4-KD277
Power Requirements	C4-KD120: 120VAC +/-10%, 50/60 Hz C4-KD240: 220VAC +/-10%, 50/60 Hz C4-KD277: 277VAC +/-10%, 50/60 Hz This device can function with or without a neutral AC connection depending on load type.
Power Consumption	C4-KD120: 450mW C4-KD240: 2.02W C4-KD277: 550mW

Load Types and Ratings	
Supported Load Types	Incandescent; Halogen; Electronic (Solid State) Low Voltage (ELV) Transformers, Magnetic (Iron Core, Inductive) Low Voltage (MLV) Transformers; Phase-Dimmable Fluorescents, Compact Fluorescents, and LEDs.

C4-KD120 Maximum Load	1 Gang	2 Gang	3+ Gang
Incandescent (Tungsten)	600W	550W	500W
Halogen	600W	550W	500W
Fluorescent*	300W	300W	300W
Compact Fluorescent (CFL)*	300W	300W	300W
LED*	120W	120W	120W

C4-KD240 Reverse Phase Maximum Load	1 Gang	2 Gang	3+ Gang
Incandescent (Tungsten)	800W	700W	600W
Halogen	800W	700W	600W
Fluorescent*	500W	500W	500W
Compact Fluorescent (CFL)*	500W	500W	500W
LED*	160W	160W	160W

C4-KD240 Forward Phase Maximum Load	1 Gang	2 Gang	3+ Gang
Incandescent (Tungsten)	400W	400W	400W
Halogen	400W	400W	400W
Fluorescent*	400W	400W	400W
Compact Fluorescent (CFL)*	400W	400W	400W
LED*	160W	160W	160W

C4-KD277 Maximum Load	1 Gang	2 Gang	3+ Gang
Incandescent (Tungsten)	1000W	900W	800W
Halogen	1000W	900W	800W
Fluorescent*	500W	500W	500W
Compact Fluorescent (CFL)*	500W	500W	500W
LED*	200W	200W	200W

Minimum Load (with neutral), All Models	
All load types	1W

Minimum Load (without neutral)	
Incandescent (Tungsten)	7W
Halogen	7W
Fluorescent*	N/A
Compact Fluorescent (CFL)*	N/A
LED*	N/A

*NOTES: 1) The maximum load requirements for fluorescent, CFL and LED loads can vary greatly depending upon the specific fixture and/or bulb being used. 2) The quality and performance of these load types varies greatly from manufacturer to manufacturer. 3) The use of fluorescent, CFL, or LEDs load without a neutral wire connected to the dimmer is not recommended.

Environmental	
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C) All load ratings are based on an ambient temperature of 77°F (25˚C).
Humidity	5% to 95% non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)

Miscellaneous	
Control Communications	ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel spread spectrum radio
Wall box Volume	5.75 cubic inches
Weight	0.12 lb. (0.05 kg)
Shipping Weight	0.22 lb. (0.10 kg)

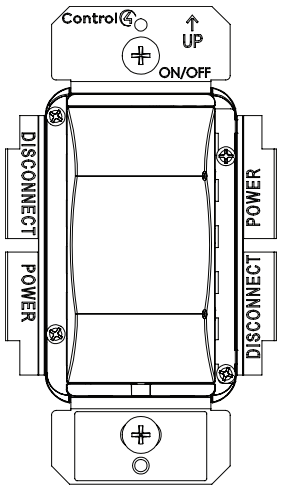
Available Colors	
C4-KD120-xx and C4-KD277-xx	WH, LA, IV, BR, BL, SW, MB, BI, AU
C4-KD240-xx	WH, BL, SW, MB, BI, AU

Available Accessories	
Faceplate, 1 Gang (C4-FP1-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 2 Gang (C4-FP2-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 3 Gang (C4-FP3-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 4 Gang (C4-FP4-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Color Kit (C4-CKKD-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Single High (C4-EBD1H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Double High (C4-EBD2H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Triple High (C4-EBD3H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU

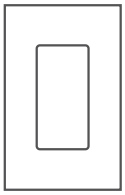
Gloss Colors: WH=White, LA=Light Almond, IV=Ivory, BR=Brown, BL=Black
Satin Colors: SW=Snow White, MB=Midnight Black, BI=Biscuit, AU=Aluminum
Metal Finishes: SN=Satin Nickel, SS=Stainless Steel, VB=Venetian Bronze

Control4 Forward Phase Dimmer

120V (C4-FPD120)



Remember faceplates! *(Not included)*



1-Gang (C4-FP1-xx), 2-Gang (C4-FP2-xx), 3-Gang (C4-FP3-xx), 4-Gang (C4-FP4-xx), 1-Gang Square (C4-SFP1-xx)

Gloss: White (WH), Light Almond (LA), Ivory (IV), Brown (BN), Black (BL)

Satin: Snow White (SW), Midnight Black (MB), Biscuit (BI), Aluminum (AU)

Metal: Satin Nickel (SN), Stainless Steel (SS), Venetian Bronze (VB)

The Control4® Wireless Forward Phase Dimmer provides an economical solution for dimming forward phase-compatible loads, such as:

- Incandescents
- Line-voltage halogens
- Magnetic (iron core) transformers
- Forward-phase (leading-edge) dimmable LEDs, CFLs, and fluorescents

Product features

- Well suited for higher wattage loads, such as chandeliers, that exceed the capacity of an Adaptive Phase Dimmer.
- Protection circuitry helps prevent device damage from short circuits and excessive loads.
- Available in a wide array of gloss and satin colors (see Available Colors in the specifications table).
- Custom engraving is available to clearly identify each device. Backlit engraving available with programmable color control for easy readability regardless of time of day or light level.
- Status and backlight LED colors can be set to reflect a device or scene status or simply to complement the room's décor.
- Ambient light sensor automatically adjusts backlight and status LED brightness for easy readability regardless of time of day or light level.
- Can be repurposed in Composer to act as a 2-button keypad with no direct load control.
- Minimum and maximum dimming levels can be set to account for different load types or simply to control energy usage.
- Continuously monitors energy consumption of the connected load.
- Automatically adapts to application with or without neutral wiring. For best performance, always use neutral wiring where possible.
- Air gap actuator on the top of the switch disconnects power to the device.

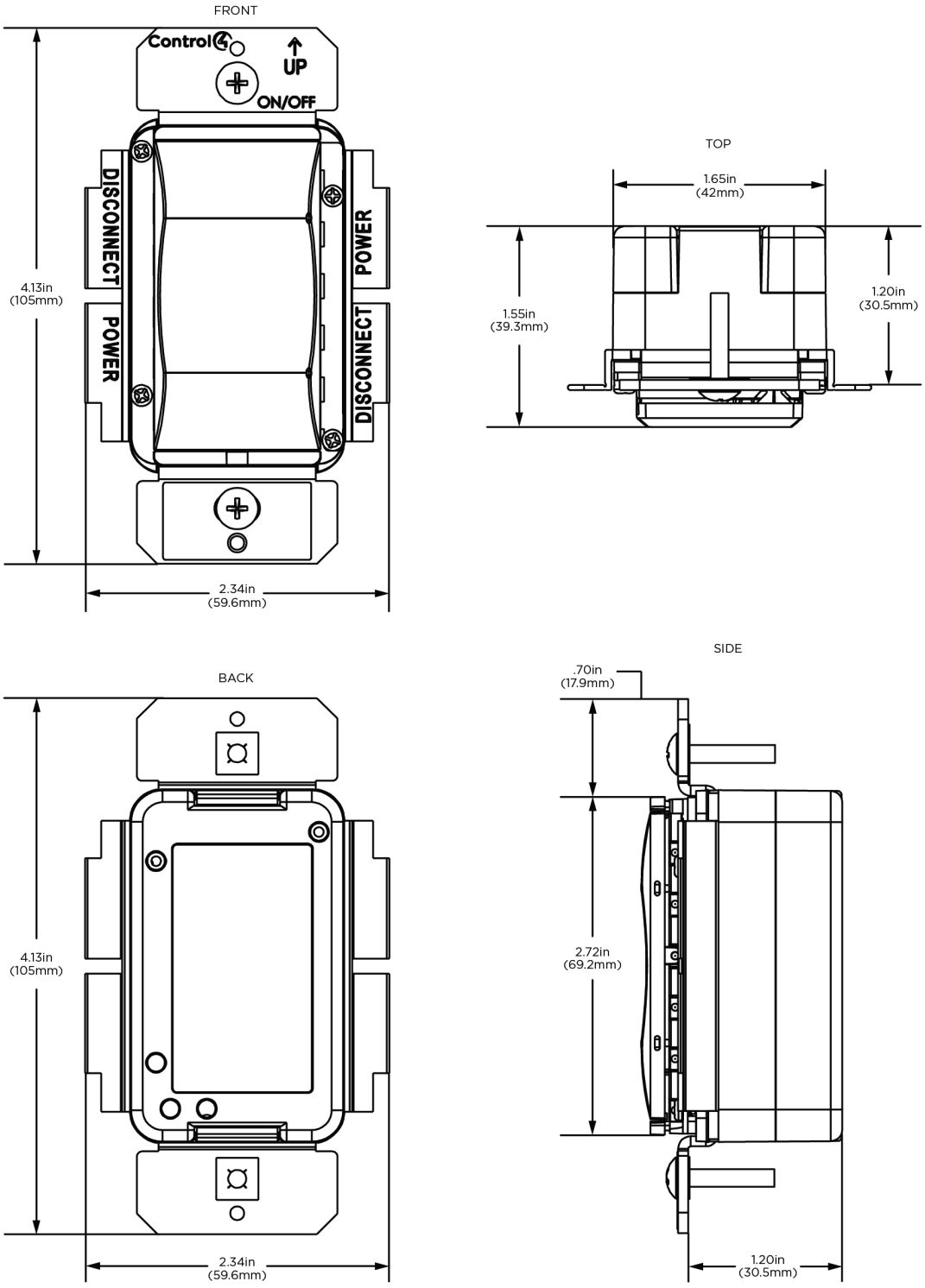
Included

- Forward Phase Dimmer
- Wire nuts
- *Forward Phase Dimmer Installation Guide*

Installation notes

- Follow **all** instructions in the installation guide.
- This device must be installed by a licensed electrician.
- Installs in a standard NEMA wall box using typical wiring standards.
- Do not use to control non-dimmable loads.
- When used in conjunction with an Auxiliary Keypad (C4-KA-xx), the wire connecting the Auxiliary Keypad to this device must not exceed 150 feet (45 meters) at 120VAC and 100 feet (30 meters) at 277VAC.
- Can function with or without a neutral AC connection, depending on load type. Wiring with a neutral is always the preferred wiring method (if possible). When wired without a neutral, loads may appear dimmer.
- Requires an earth ground connection.
- Full load control is available from the device before being identified into a project.
- Grounding is highly recommended for this product. Grounding will protect the device from ESD (electrostatic discharge) effects. Follow the wiring diagrams in the installation guide.
- **WARNING!** This device must be protected by a circuit breaker (20A max).

For full installation instructions and warnings, see the *Forward Phase Dimmer Installation Guide*. See Control4 training materials for best practices on ZigBee installation.



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Specifications

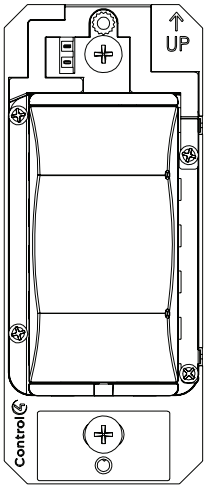
Model Numbers	C4-FPD120		
Power Requirements	120VAC +/-10%, 50/60 Hz This device can function with or without a neutral AC connection depending on load type.		
Power Consumption	450mW		
Load Types and Ratings			
Supported Load Types	Incandescent; Halogen; Magnetic (Iron Core, Inductive) Low Voltage (MLV) Transformers; Forward Phase Dimmable Fluorescents, Compact Fluorescents, and LEDs.		
Maximum Load			
	1 Gang	**2 Gang**	**3+ Gang**
Incandescent (Tungsten)	1000W	800W	600W
Halogen	1000W	800W	600W
Fluorescent*	500W	500W	500W
Compact Fluorescent (CFL)*	500W	500W	500W
LED*	200W	200W	200W
Minimum Load (with neutral)			
Incandescent (Tungsten)	4.5W		
Halogen	4.5W		
Fluorescent*	4.5W		
Compact Fluorescent (CFL)*	4.5W		
LED*	4.5W		
Minimum Load (without neutral)			
Incandescent (Tungsten)	25W		
Halogen	25W		
Fluorescent*	N/A		
Compact Fluorescent (CFL)*	N/A		
LED*	N/A		
Environmental			
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C) All load ratings are based on an ambient temperature of 77°F (25˚C).		
Humidity	5% to 95% non-condensing		
Storage	-4˚F - 158˚F (-20˚C - 70˚C)		
Miscellaneous			
Control Communications	ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel spread spectrum radio		
Wall Box Volume	5.75 cubic inches		
Weight	0.12 lb. (0.05 kg)		
Shipping Weight	0.18 lb. (0.08 kg)		
Available Colors			
C4-FPD120-xx	WH, LA, IV, BR, BL, SW, MB, BI, AU		
Available Accessories			
Faceplate, 1 Gang (C4-FP1-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB		
Faceplate, 2 Gang (C4-FP2-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB		
Faceplate, 3 Gang (C4-FP3-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB		
Faceplate, 4 Gang (C4-FP4-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB		
Color Kit (C4-CKFPDAPD-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU		
Engraved Button, Rocker (C4-EBDR-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU		

Gloss Colors: WH=White, LA=Light Almond, IV=Ivory, BR=Brown, BL=Black
Satin Colors: SW=Snow White, MB=Midnight Black, BI=Biscuit, AU=Aluminum
Metal Finishes: SN=Satin Nickel, SS=Stainless Steel, VB=Venetian Bronze

*NOTES: 1) The maximum load requirements for fluorescent, CFL and LED loads can vary greatly depending upon the specific fixture and/or bulb being used. 2) The quality and performance of these load types varies greatly from manufacturer to manufacturer. 3) The use of fluorescent, CFL, or LEDs load without a neutral wire connected to the dimmer is not recommended.

Control4 Wireless Switch

120V/277V (C4-SW120277), 240V (C4-SW240)



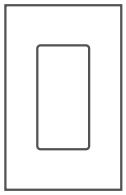
The Control4® Wireless Switch provides on/off control for a variety of load types, including:

- Incandescents
- Halogens
- Electronic low-voltage (solid state) transformers
- Magnetic (iron core) low-voltage transformers
- Fluorescents
- Compact fluorescents
- LEDs
- Motors

Product features

- Provides on/off control of non-dimmable loads.
- With its durable relay and high amperage rating, it can handle high in-rush loads such as fountain pumps, large banks of fluorescent lights, and wall outlets.
- Available in a wide array of gloss and satin colors (see Available Colors in the specifications table).
- Custom engraving available to clearly identify which load each switch controls.
- Backlit engraving provides easy readability regardless of light level or time of day.
- Status and backlight LED colors can be set to reflect a device or scene status or simply to complement the room's décor.
- Ambient light sensor automatically adjusts backlight and status LED brightness, depending on the light level in the room.
- Can be repurposed in Composer to act as a 2-button keypad with no direct load control.
- Continuously monitors energy consumption of the connected load.
- Air gap actuator on the top of the switch disconnects power to the device.

Remember faceplates! *(Not included)*



1-Gang (C4-FP1-xx), 2-Gang (C4-FP2-xx), 3-Gang (C4-FP3-xx), 4-Gang (C4-FP4-xx), 1-Gang Square (C4-SFP1-xx)

Gloss: White (WH), Light Almond (LA), Ivory (IV), Brown (BN), Black (BL)

Satin: Snow White (SW), Midnight Black (MB), Biscuit (BI), Aluminum (AU)

Metal: Satin Nickel (SN), Stainless Steel (SS), Venetian Bronze (VB)

Included

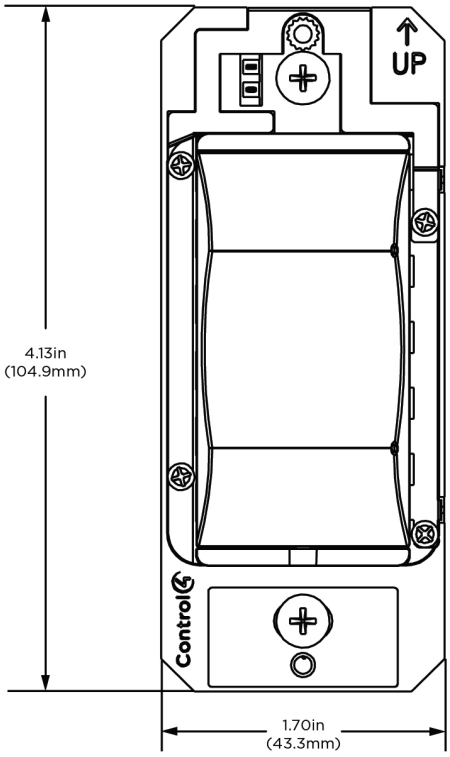
- Switch
- Wire nuts (120V/277V) or Terminal Block (240V)
- *Switch Installation Guide*

Installation notes

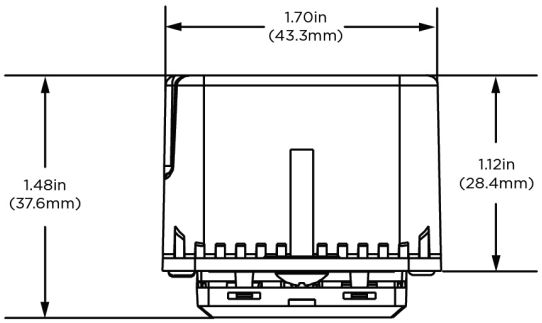
- Follow **all** instructions in the installation guide.
- This device must be installed by a licensed electrician.
- Installs in a standard NEMA wall box using typical wiring standards.
- When used in conjunction with an Auxiliary Keypad (C4-KA-xx), the wire connecting the Auxiliary Keypad to this device must not exceed 150 feet (45 meters) at 120VAC and 100 feet (30 meters) at 277VAC.
- Requires a neutral connection and an earth ground connection.
- Full load control is available from the device before being identified into a project.
- Grounding is highly recommended for this product. Grounding will protect the device from ESD (electrostatic discharge) effects. Follow the wiring diagrams in the installation guide.
- **WARNING!** This device must be protected by a circuit breaker (20A max).

For full installation instructions and warnings, see the *Switch Installation Guide*. See Control4 training materials for best practices on ZigBee installation.

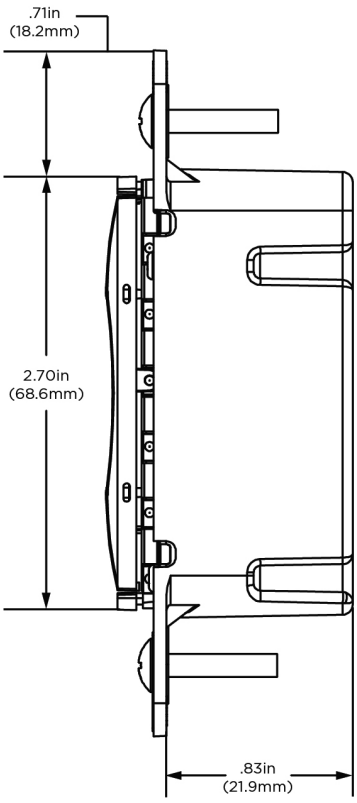
FRONT



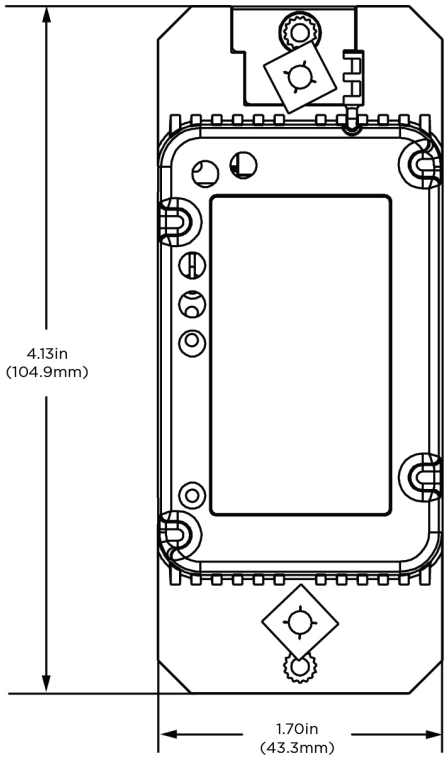
TOP



SIDE



BACK



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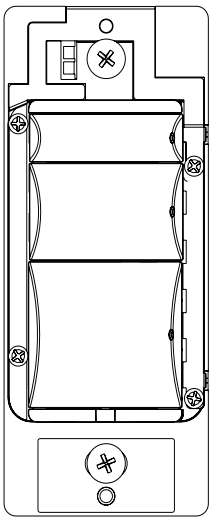
Specifications

Model Number	C4-SW120277 and C4-SW240
Power Requirements	C4-SW120277: 110-277VAC +/-10%, 50/60 Hz C4-SW240: 220VAC-240VAC +/-10%, 50/60 Hz This device requires a neutral connection.
Power Consumption	120V: 400mW 240V: 950mW 277: 1150mW
Load Types and Ratings	
Supported Load Types	Incandescent, Halogen, Electronic (Solid State) Low Voltage (ELV) Transformers, Magnetic (Iron Core, Inductive) Low Voltage (MLV) Transformers, Fluorescents, Compact Fluorescents, LEDs, Motors
Maximum Load	120V: 15A, 1/2 HP 240V: 10A, 1/2 HP 277V: 8A, 1/2 HP
Environmental	
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C)
Humidity	5% to 95% non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Miscellaneous	
Control Communications	ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel spread spectrum radio
Wall Box Volume	5.75 cubic inches (94.2 cubic centimeters)
Weight	0.12 lb (0.05 kg)
Shipping Weight	0.18 lb (0.08 kg)
Available Colors	
C4-SW120277 and C4-SW240	WH, LA, IV, BR, BL, SW, MB, BI, AU
C4-SW240	WH, BL, SW, MB, BI, AU
Available Accessories	
Faceplate, 1 Gang (C4-FP1-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 2 Gang (C4-FP2-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 3 Gang (C4-FP3-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 4 Gang (C4-FP4-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Color Kit (C4-CKSWITCH-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Rocker (C4-EBDR-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU

Gloss Colors: WH=White, LA=Light Almond, IV=Ivory, BR=Brown, BL=Black
Satin Colors: SW=Snow White, MB=Midnight Black, BI=Biscuit, AU=Aluminum
Metal Finishes: SN=Satin Nickel, SS=Stainless Steel, VB=Venetian Bronze

Control4 Wireless Configurable Keypad

120V/277V (C4-KC120277), 240V (C4-KC240)

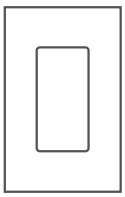


The Control4® Wireless Configurable Keypad is an elegant and customizable user interface that unlocks the power of one-touch automation.

Product features

- The keypad can be configured with two to seven buttons using four different button sizes for a total of 37 possible configurations (one button kit included). There's no need to worry about how many buttons will be needed on a specific keypad before (or even after) installation. Available buttons include:
  - Single-height
  - Double-height
  - Triple-height
  - Up/Down (single height)
- Available in a wide array of gloss and satin colors (see Available Colors in the specifications table).
- Custom engraving is available to clearly identify each device.
- Backlit engraving available with programmable color control for easy readability regardless of time of day or light level.
- Status and backlight LED colors can be set to reflect a device or scene's status or simply to complement the room's decor.
- Ambient light sensor automatically adjusts backlight and status LED brightness depending on the light level in the room.
- Automatically adapts to application with or without neutral wiring. For best performance, always use neutral wiring where possible.
- Air gap actuator on the top of the switch disconnects power to the device.

Remember faceplates! *(Not included)*



1-Gang (C4-FP1-xx), 2-Gang (C4-FP2-xx), 3-Gang (C4-FP3-xx), 4-Gang (C4-FP4-xx), 1-Gang Square (C4-SFP1-xx)

Gloss: White (WH), Light Almond (LA), Ivory (IV), Brown (BN), Black (BL)

Satin: Snow White (SW), Midnight Black (MB), Biscuit (BI), Aluminum (AU)

Metal: Satin Nickel (SN), Stainless Steel (SS), Venetian Bronze (VB)

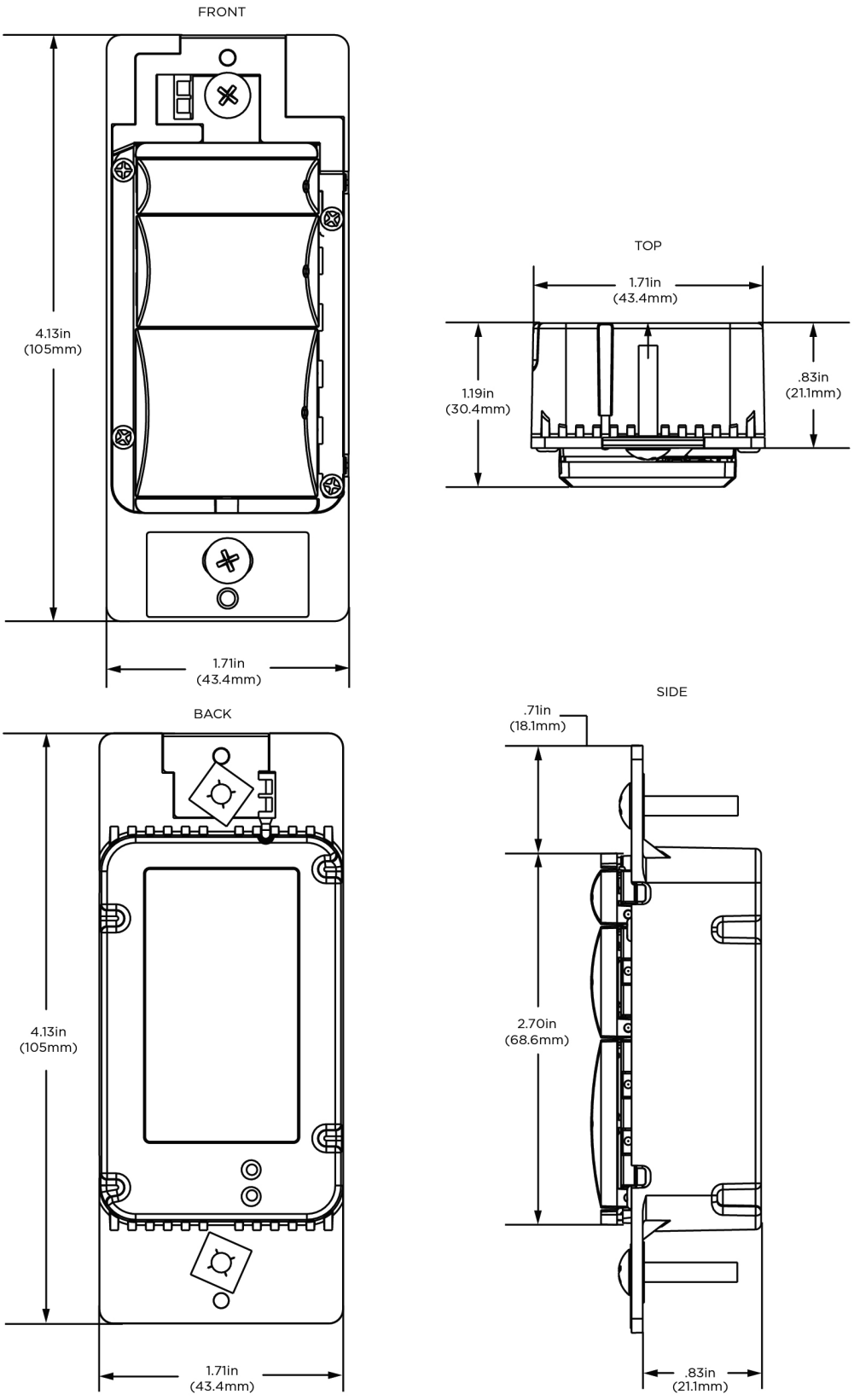
Included

- Configurable Keypad
- Keycap button Kit
- Wire nuts (120V/277V) or Terminal Block (240V)

Installation notes

- Follow **all** instructions in the installation guide.
- This device must be installed by a licensed electrician.
- Installs in a standard NEMA wall box using typical wiring standards.
- For directly controlling a load, every button acts as an on/off toggle by default (before programming).
- Requires an earth ground connection.
- Can be powered via line voltage or low voltage, using either the Control4 36V Keypad Power Supply or the Control4 48V Bus Power Supply.
- When used in a 3-way or 4-way scenario, note that load control from the keypad will not be possible until the keypad and the associated load control device have both been identified to a Controller and properly configured.
- To prevent changes and delays in your custom engraving order, plan and order any custom button engraving only *after* the installation plan is finalized.
- Grounding is highly recommended for this product. Grounding will protect the device from ESD (electrostatic discharge) effects. Follow the wiring diagrams in the installation guide.
- **WARNING!** This device must be protected by a circuit breaker (20A max).

For full installation instructions and warnings, see the *Wireless Configurable Keypad Installation Guide* and the *Keypad Button Installation Guide*. See Control4 training materials for best practices on ZigBee installation.



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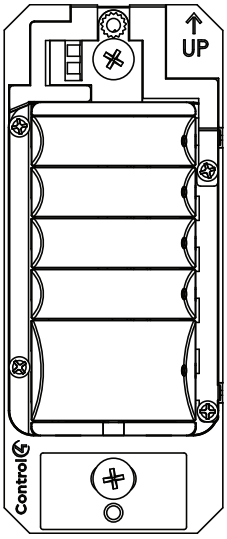
Specifications

Model Number	C4-KC120277 and C4-KC240
Power Requirements	C4-KC120277: 110-277VAC +/-10%, 50/60 Hz or 36VDC-48VDC C4-KC240: 220VAC-240VAC +/-10%, 50/60 Hz or 36VDC-48VDC This device requires a neutral AC connection.
Power Consumption	120V: 350mW 240V: 480mW 277V: 540mW 36VDC: 430mW
Environmental	
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C)
Humidity	5% to 95% non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Miscellaneous	
Control Communications	ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel spread spectrum radio
Wall Box Volume	4.75 cubic inches (77.8 cubic centimeters)
Weight	0.12 lb. (0.05 kg)
Shipping Weight	0.18 lb. (0.08 kg)
Available Colors	
C4-KC120277-xx	WH, LA, IV, BR, BL, SW, MB, BI, AU
C4-KC240-xx	WH, BL, SW, MB, BI, AU
Available Accessories	
Faceplate, 1 Gang (C4-FP1-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 2 Gang (C4-FP2-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 3 Gang (C4-FP3-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 4 Gang (C4-FP4-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Color Kit (C4-CKKC-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Single High (C4-EBD1H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Double High (C4-EBD2H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Triple High (C4-EBD3H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU

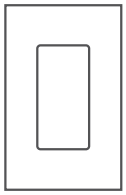
Gloss Colors: WH=White, LA=Light Almond, IV=Ivory, BR=Brown, BL=Black
Satin Colors: SW=Snow White, MB=Midnight Black, BI=Biscuit, AU=Aluminum
Metal Finishes: SN=Satin Nickel, SS=Stainless Steel, VB=Venetian Bronze

Control4 Wireless Fan Speed Controller

120V (C4-4SF120)



Remember faceplates! *(Not included)*



1-Gang (C4-FP1-xx), 2-Gang (C4-FP2-xx), 3-Gang (C4-FP3-xx), 4-Gang (C4-FP4-xx), 1-Gang Square (C4-SFP1-xx)

Gloss: White (WH), Light Almond (LA), Ivory (IV), Brown (BN), Black (BL)

Satin: Snow White (SW), Midnight Black (MB), Biscuit (BI), Aluminum (AU)

Metal: Satin Nickel (SN), Stainless Steel (SS), Venetian Bronze (VB)

The Control4® Wireless Fan Speed Controller provides elegant, quiet speed control of ceiling fans. Allows fan speed control to be incorporated into a Control4 system for climate scheduling and other automated events.

Product features

- Controls a single paddle-type ceiling fan.
- Includes four fan speed buttons (single-height) and one off button (double-height).
- Available in a wide array of gloss and satin colors (see Available Colors in the specifications table).
- Custom engraving is available to clearly identify each button.
- Backlit engraving available with programmable color control for easy readability regardless of time of day or light level.
- Status and backlight LED colors can be set to reflect a device or scene's status or simply to complement the room's decor.
- Ambient light sensor automatically adjusts backlight and status LED brightness depending on the light level in the room.
- Automatically adapts to application with or without neutral wiring. For best performance, always use neutral wiring where possible.
- Continuously monitors energy consumption of the connected load.

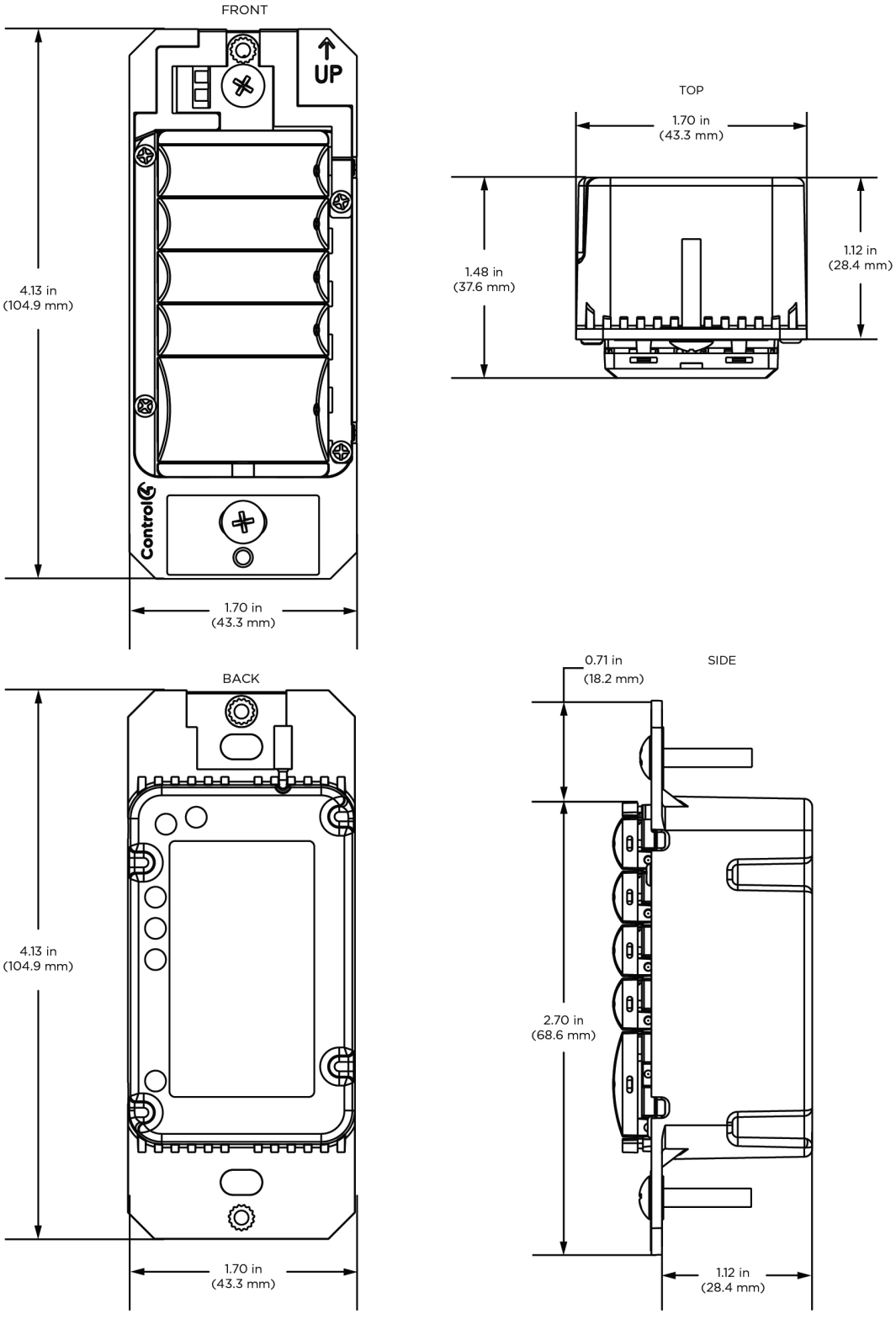
Included

- Fan Speed Controller
- Wire nuts
- *Wireless Fan Speed Controller Installation Guide*

Installation notes

- Follow **all** instructions in the installation guide.
- This device must be installed by a licensed electrician.
- Installs in a standard NEMA wall box using typical wiring standards
- Do not use to control bathroom/kitchen exhaust fans. Exhaust fans use a different type of motor that is not compatible with the Fan Speed Controller and may cause damage to the fan and the Fan Speed Controller. The Fan Speed Controller should only be used to control a single paddle-type ceiling fan.
- Requires an earth ground connection and a neutral connection.
- If the ceiling fan also contains a light fixture, a separate dimmer or switch will be required to control the light. There must be two load wires going to the fan—one for the fan and one for the light.
- When used in conjunction with an Auxiliary Keypad (C4-KA-xx), the wire connecting the Auxiliary Keypad to this device must not exceed 150 feet (45 meters) at 120VAC and 100 feet (30 meters) at 277VAC.
- To prevent changes and delays in your custom engraving order, plan and order any custom button engraving only after the installation plan is finalized.
- Full fan control is available from the device before being identified into a project.
- Grounding is highly recommended for this product. Grounding will protect the device from ESD (electrostatic discharge) effects. Follow the wiring diagrams in the installation guide.
- **WARNING!** This device must be protected by a circuit breaker (20A max).

For full installation instructions and warnings, see the *Wireless Fan Speed Controller Installation Guide*. See Control4 training materials for best practices on ZigBee installation.



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Specifications

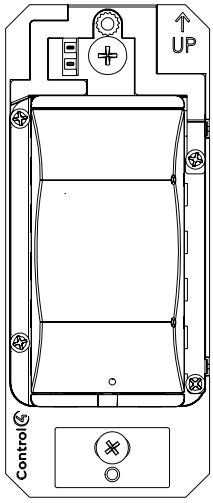
Model Number	C4-4SF120
Power Requirements	120VAC +/-10%, 50/60 Hz This device requires a neutral connection.
Power Consumption	500mW
Load Types and Ratings	
Supported Load Types	Single, paddle-type ceiling fan
Maximum Load	2A
Environmental	
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C)
Humidity	5% to 95% non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Miscellaneous	
Control Communications	ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel spread spectrum radio
Wall Box Volume	5.75 cubic inches
Weight	0.12 lb. (0.05 kg)
Shipping Weight	0.18 lb. (0.08 kg)
Available Colors	
C4-4SF120-xx	WH, LA, IV, BR, BL, SW, MB, BI, AU
Available Accessories	
Faceplate, 1 Gang (C4-FP1-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 2 Gang (C4-FP2-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 3 Gang (C4-FP3-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 4 Gang (C4-FP4-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Color Kit (C4-CK4SF-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Single High (C4-EBD1H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Double High (C4-EBD2H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Triple High (C4-EBD3H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU

Gloss Colors: WH=White, LA=Light Almond, IV=Ivory, BR=Brown, BL=Black
Satin Colors: SW=Snow White, MB=Midnight Black, BI=Biscuit, AU=Aluminum
Metal Finishes: SN=Satin Nickel, SS=Stainless Steel, VB=Venetian Bronze

*NOTE: Fans with integrated lights must have separate control of the fan and the light from the wall location. Do not use the Fan Speed Controller to control the integrated lights. A dedicated dimmer or switch is required for light control. Not for use with shaded-pole type motors (e.g. bathroom exhaust fans).

Control4 Wireless 0-10V Dimmer

120V/277V (C4-TV120277), 240V (C4-TV240)

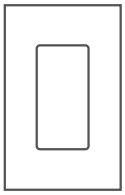


The Control4® Wireless 0-10V Dimmer provides elegant, in-wall control of 4-wire 0-10V dimmable fluorescent ballasts and LEDs. Features the same sleek profile and customizable button backlighting and LEDs of other Control4® wireless lighting products.

Product features

- Can sink or source 100mA for control of up to 50 ballasts or LED drivers.
- Built-in relay provides separate on/off control of line voltage when required.
- Protection circuitry helps prevent device damage from short circuits and excessive loads.
- Available in a wide array of gloss and satin colors (see Available Colors in the specifications table).
- Custom engraving is available to clearly identify which light each dimmer controls.
- Backlit engraving provides easy readability regardless of time of day or light level.
- Status and backlight LED colors can be set to reflect a device or scene status or simply to complement the room's decor.
- Ambient light sensor automatically adjusts backlight and status LED brightness, depending on the light level in the room.
- Minimum and maximum dimming levels can be set to account for different load types or simply to control energy usage.
- Automatically adapts to application with or without neutral wiring. For best performance, always use neutral wiring where possible.
- Continuously monitors energy consumption of the connected load.
- Air gap actuator on the top of the switch disconnects power to the device.

Remember faceplates! *(Not included)*



1-Gang (C4-FP1-xx), 2-Gang (C4-FP2-xx), 3-Gang (C4-FP3-xx), 4-Gang (C4-FP4-xx), 1-Gang Square (C4-SFP1-xx)

Gloss: White (WH), Light Almond (LA), Ivory (IV), Brown (BN), Black (BL)

Satin: Snow White (SW), Midnight Black (MB), Biscuit (BI), Aluminum (AU)

Metal: Satin Nickel (SN), Stainless Steel (SS), Venetian Bronze (VB)

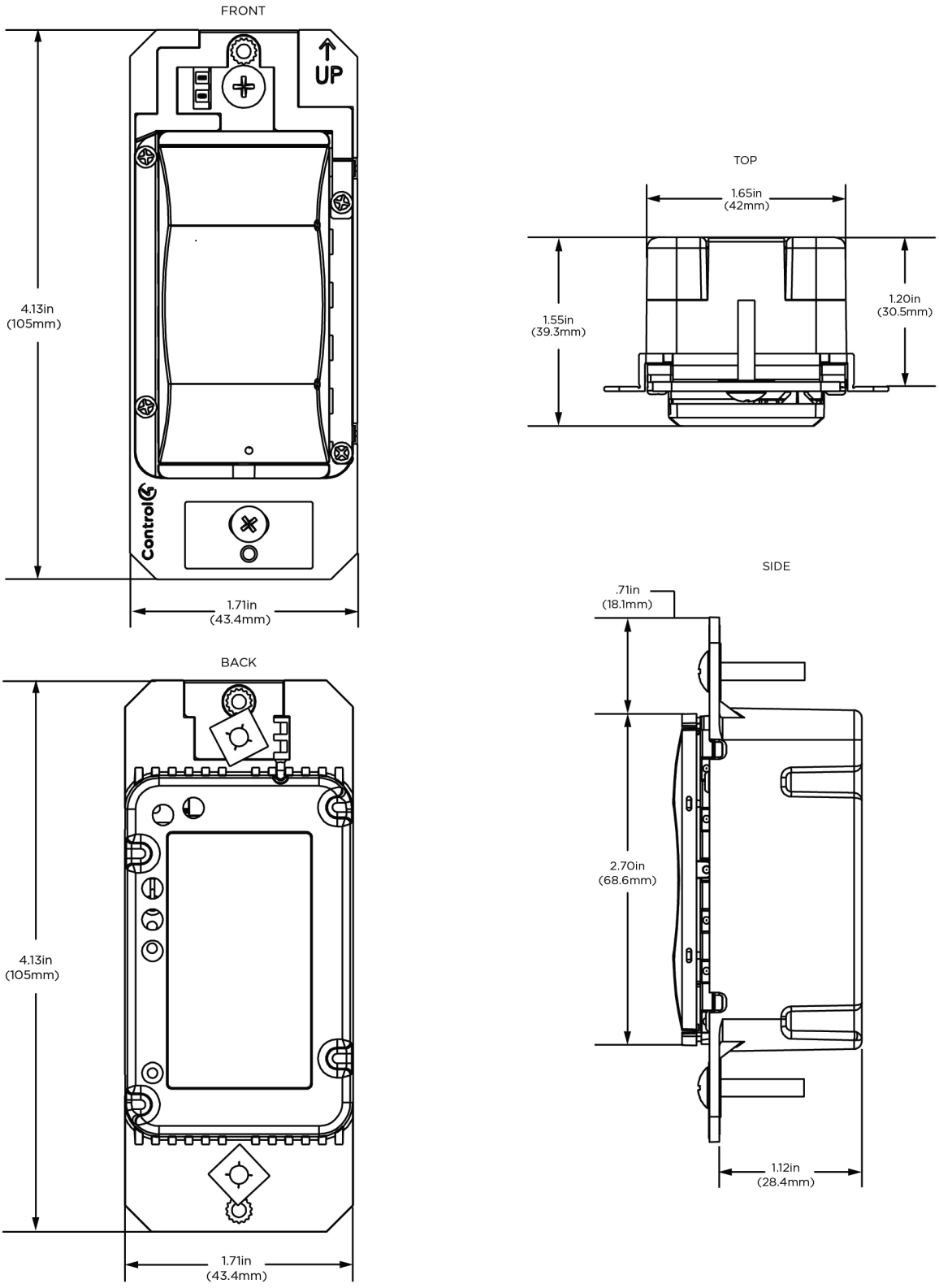
Included

- Wireless 0-10V DImmer
- Wire nuts (120V/277V) or Terminal Block (240V)
- *0-10V Dimmer Installation Guide*

Installation notes

- Follow **all** instructions in the installation guide.
- This device must be installed by a licensed electrician.
- Installs in a standard NEMA wall box using typical wiring standards.
- When used in conjunction with an Auxiliary Keypad (C4-KA-xx), the wire connecting the Auxiliary Keypad to this device must not exceed 150 feet (45 meters) at 120VAC and 100 feet (30 meters) at 277VAC.
- Requires an earth ground connection and a neutral connection.
- Full load control is available from the device before being identified into a project.
- To prevent changes and delays in your custom engraving order, plan and order any custom button engraving only after the installation plan is finalized.
- Grounding is highly recommended for this product. Grounding will protect the device from ESD (electrostatic discharge) effects. Follow the wiring diagrams in the installation guide.
- **WARNING!** This device must be protected by a circuit breaker (20A max).

For full installation instructions and warnings, see the *0-10V Dimmer Installation Guide*. See Control4 training materials for best practices on ZigBee installation.



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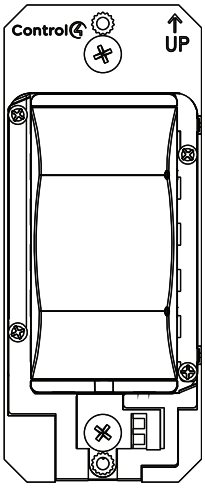
Specifications

Model Number	C4-TV120277 and C4-TV240
Power Requirements	C4-TV120277: 110-277VAC +/-10%, 50/60 Hz C4-TV240: 220VAC-240VAC +/-10%, 50/60 Hz This device requires a neutral AC connection.
Power Consumption	120V: 485mW 240V: 1.0W 277V: 1.18W
Load Types and Ratings	
Supported Load Types	Four-wire 0-10V and 1-10V dimmable fluorescent ballasts and LEDs, sink or source.
Maximum Load (Switched Hot)	120V: 15A 240V: 10A 277V: 8A
Maximum Load (0-10V Control)	100mA sink or source
Environmental	
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C) All load ratings are based on an ambient temperature of 77°F (25˚C)
Humidity	5% to 95% non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Miscellaneous	
Control Communications	ZigBee, IEEE 802.15.4, 2.4 GHz, 15-channel spread spectrum radio
Wall Box Volume	5.75 cubic inches
Weight	0.12 lb. (0.05 kg)
Shipping Weight	0.18 lb. (0.08 kg)
Available Colors	
C4-TV120277-xx	WH, LA, IV, BR, BL, SW, MB, BI, AU
C4-TV240-xx	WH, BL, SW, MB, BI, AU
Available Accessories	
Faceplate, 1 Gang (C4-FP1-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 2 Gang (C4-FP2-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 3 Gang (C4-FP3-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 4 Gang (C4-FP4-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Color Kit (C4-CKFPDAPD-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Rocker (C4-EBDR-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU

Gloss Colors: WH=White, LA=Light Almond, IV=Ivory, BR=Brown, BL=Black
Satin Colors: SW=Snow White, MB=Midnight Black, BI=Biscuit, AU=Aluminum
Metal Finishes: SN=Satin Nickel, SS=Stainless Steel, VB=Venetian Bronze

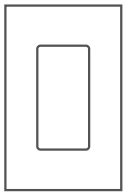
Control4 Auxiliary Keypad

120V/277V (C4-KA)



The Control4® Auxiliary Keypad provides an economical solution for 3-way control of a load. If a retrofit, it uses the existing, in-wall 3-way wiring.

Remember faceplates! *(Not included)*



1-Gang (C4-FP1-xx), 2-Gang (C4-FP2-xx), 3-Gang (C4-FP3-xx), 4-Gang (C4-FP4-xx), 1-Gang Square (C4-SFP1-xx)

Gloss: White (WH), Light Almond (LA), Ivory (IV), Brown (BN), Black (BL)

Satin: Snow White (SW), Midnight Black (MB), Biscuit (BI), Aluminum (AU)

Metal: Satin Nickel (SN), Stainless Steel (SS), Venetian Bronze (VB)

Product features

- Wires directly to any compatible Control4 load control device (dimmer, Switch, or Fan Speed Controller) and provides full control of the load attached to the associated device.
- Does not require any connection to a Control4 controller in order to provide load control. This ensures that 3-way control works prior to configuration of the project as well as any time that the control system is offline.
- Use up to ten Auxiliary Keypads connected to a single load control device.
- Available in a wide array of gloss and satin colors (see Available Colors in the specifications table).
- Can be repurposed in Composer to act as a 2-button keypad with no direct load control.
- Custom engraving is available to clearly identify each device. Backlit engraving available with programmable color control for easy readability regardless of time of day or light level.

Included

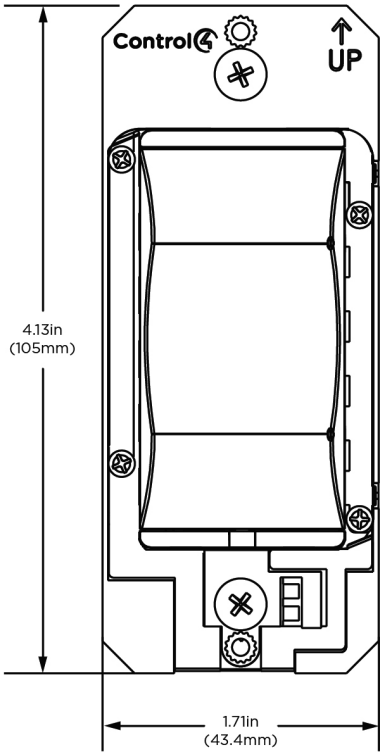
- Auxiliary Keypad
- Wire nuts
- *Auxiliary Keypad Installation Guide*

Installation notes

- Follow **all** instructions in the installation guide.
- This device must be installed by a licensed electrician.
- Installs in a standard NEMA wall box using typical wiring standards.
- The wire connecting the Auxiliary Keypad to the load control device must not exceed 150 feet (45 meters) at 120VAC and 100 feet (30 meters) at 277VAC.
- Requires an earth ground connection.
- Full load control is available from the device before being identified into a project.
- Can be powered via line-voltage or low-voltage using either the Control4 36V Keypad Power Supply or the Control4 48V Bus Power Supply.
- To prevent changes and delays in your custom engraving order, plan and order any custom button engraving only after the installation plan is finalized.
- Grounding is highly recommended for this product. Grounding will protect the device from ESD (electrostatic discharge) effects. Follow the wiring diagrams in the installation guide.

For full installation instructions and warnings, see the *Auxiliary Keypad Installation Guide*. See Control4 training materials for best practices on ZigBee installation.

FRONT



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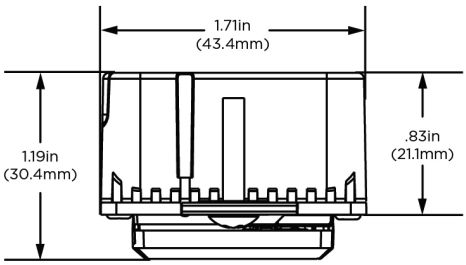
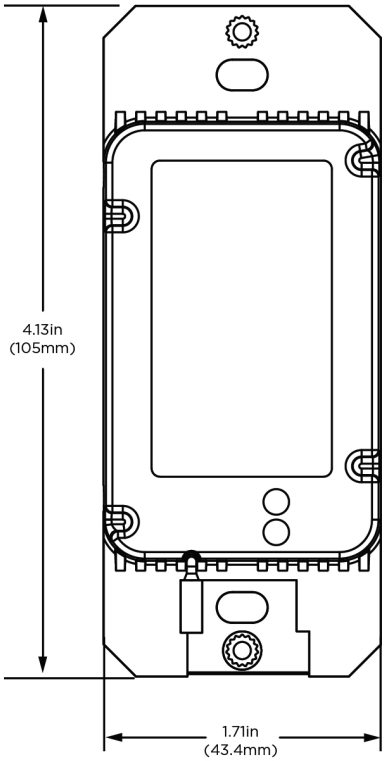


BACK



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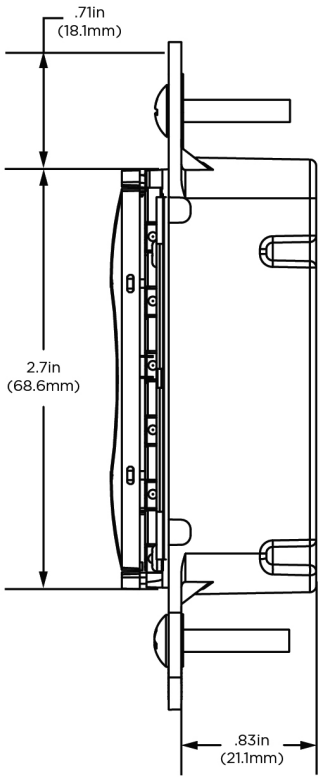

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Specifications

Model Number	C4-KA
Power Requirements	110-277VAC +/-10% 50/60 Hz
Environmental	
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C)
Humidity	5% to 95% non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Miscellaneous	
Wall Box Volume	4.75 cubic inches
Weight	0.07 lb. (0.03 kg)
Shipping Weight	0.12 lb. (0.05 kg)
Compatible Devices	

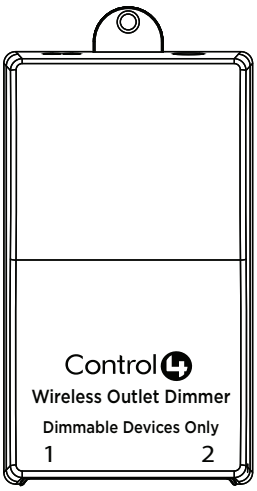
Adaptive Phase Dimmer (C4-APD120, C4-APD240, C4-APD277)
Forward Phase Dimmer (C4-FPD120)
Keypad Dimmer (C4-KD120, C4-KD240, C4-KD277)
Switch (C4-SW120277, C4-SW240)
0-10V Dimmer (C4-TV120277, C4-TV240)
Fan Speed Controller (C4-4FS120)

Available Colors	
C4-KA-xx	WH, LA, IV, BR, BL, SW, MB, BI, AU
Available Accessories	
Faceplate, 1 Gang (C4-FP1-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 2 Gang (C4-FP2-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 3 Gang (C4-FP3-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 4 Gang (C4-FP4-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Color Kit (C4-CKKA-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU

Gloss Colors: WH=White, LA=Light Almond, IV=Ivory, BR=Brown, BL=Black
Satin Colors: SW=Snow White, MB=Midnight Black, BI=Biscuit, AU=Aluminum
Metal Finishes: SN=Satin Nickel, SS=Stainless Steel, VB=Venetian Bronze

Control4 Wireless Outlet Dimmer and Switch

Outlet Dimmer (LOZ-5D1), Outlet Switch (LOZ-5S1)



The Control4® Outlet Dimmers and Switches provide the benefits of smart lighting with easy-to-use affordability. These dimmers and switches easily plug into power outlets to offer complete control of plug-in lights and other devices.

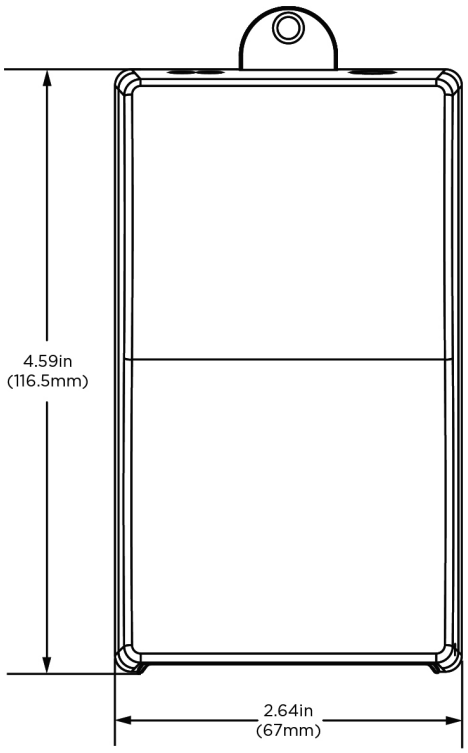
Lower utility bills, increase bulb life, ease environmental conscience, and enjoy the convenience of pre-determined, one-touch lighting scenes.

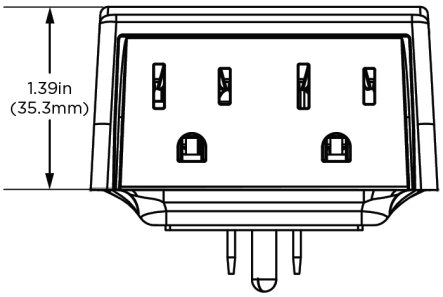
Product features

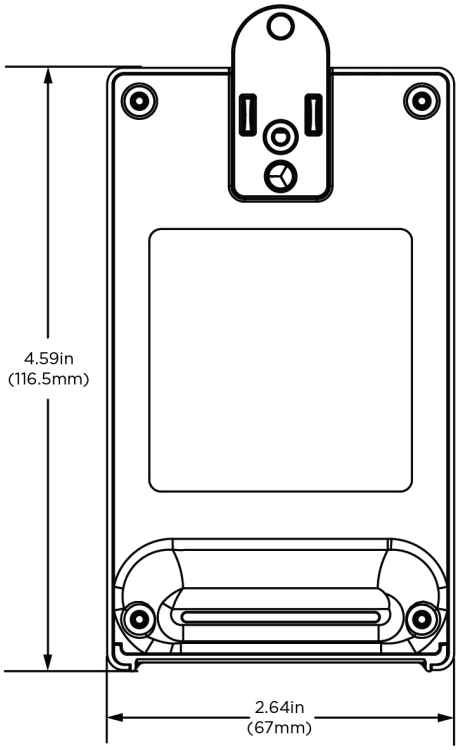
- No special wiring is required.
- Can be secured to the outlet faceplate.
- Reduce energy waste and lower utility bills by setting lights for maximum energy efficiency.
- Personalize any plug-in light to create whatever mood the customer wants: gentle wake-up scenes, romantic mood lighting, darkened home theater, or “welcome home” to make sure they never enter a dark house again.

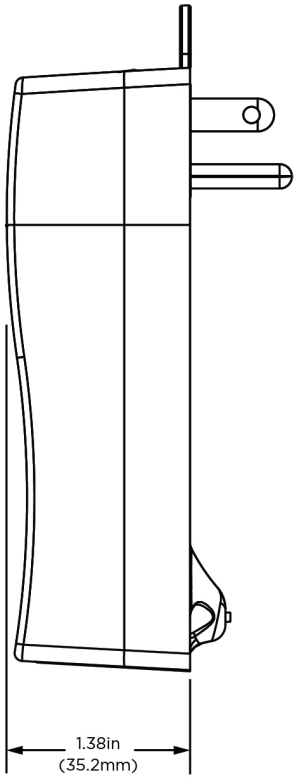
Included

- 0-10V DImmer
- Wire nuts
- *Wireless Outlet Dimmer Installation Guide* or *Wireless Outlet Switch Installation Guide*









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Specifications

	Control4® Wireless Outlet Dimmer	**Control4® Wireless Outlet Switch**
Model Number	LOZ-5D1	LOZ-5S1
Power Requirements	120VAC +/- 10% 60/50 Hz	120VAC +/- 10% 60/50 Hz
Power Consumption	1.4W - LEDs Off	1.4W - LEDs Off
Supports No-Neutral Wiring Option	No	No
Minimum Load	25 W	N/A
Incandescent/Tungsten/Halogen	700W Total Across Both Outlets	600W Each Outlet
Fluorescent	N/A	5.8A Electronic Ballast Each Outlet
Compact Fluorescent (CFL)	N/A	5.8A Each Outlet
Electronic Low Voltage (ELV)	N/A	5.8A Each Outlet
Magnetic Low Voltage (MLV)	N/A	1000VA Each Outlet 15A Total Across Both Outlets
Motor	N/A	1/4 HP (5.8 FLA) Each Outlet
Multi-Gang Derating	N/A	N/A
Control Communications	ZigBee (802.15.4) Mesh Networking	ZigBee (802.15.4) Mesh Networking
Operational Temperature	32*F - 104*F (0*C - 40*C)	32*F - 104*F (0*C - 40*C)
Humidity	5% - 95% Non-Condensing	5% - 95% Non-Condensing
Storage	-4*F - 158*F, (-20*C - 70*C)	-4*F - 158*F ,(-20*C - 70*C)
Dimensions (H x W x D)	4.5" × 2.6" × 1.6" (114 mm × 66 mm × 41 mm)	4.5" × 2.6" × 1.6" (114 mm × 66 mm × 41 mm)
Weight	8.0 oz (227 g)	8.0 oz (227 g)
Available Colors	WH	WH

Color key: WH=White

Third-party products

Note: Availability of third-party devices is subject to change at any time.

Card Access ZigBee Extender 3

ZCA-ZXT30

The Card Access ZigBee Extender 3 is designed to extend and bolster your ZigBee mesh. Extenders help eliminate network "blind spots," and they are critical for a healthy mesh in a home using a Centralized Lighting approach.

Card Access Ceiling-Mount Wireless Motion Sensors

ZCA-WMS10-C-ZP
ZCA-WMS10-2EXT-ZP
ZCA-WMS10-CL-ZP
ZCA-WMS10-2-ZP

Choose from a variety of sensors to add even more intelligent home automation that can trigger and control events throughout the home. Using these motion detectors, events can be triggered based on object motion, occupancy, and room ambient lighting levels. Automatically control room lighting, pathway lighting, and exterior lighting, either inside or outside the home.

Nyce Control Motion Sensors

NCZ-3041, NCZ-3043

These sensor solutions combine the features of a motion sensor and ZigBee radio into a single small device. Packed with intelligent features, the wireless motion sensor expands Control4's network possibilities, reporting motion anywhere in the home, allowing the lighting system to respond accordingly. And all without any wires.

Card Access Wireless Contact Relays

ZCA-WCS10-R-EXT-ZP, ZCA-WCS10-R-ZP

Extends the range of the ZigBee mesh with built-in ZigBee extender capabilities. Includes an on-board magnetic contact sensor that wirelessly integrates into the Control4 system. You can use any standard magnetic contact or order one directly from Card Access. A built-in thermometer adds remote temperature-sensing capabilities to the Control4 home, giving homeowners added automation features and capabilities based on indoor or outdoor temperature events. Internal and external antenna models are available.

Card Access Wireless Contact Sensors

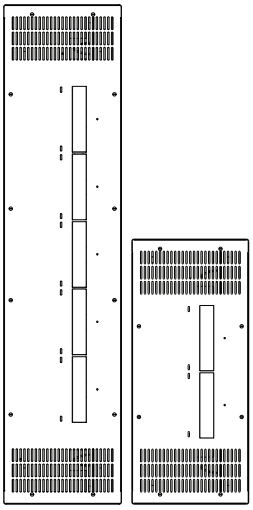
ZCA-WCS10B-2-ZP, ZCA-WCS10A-2-ZP

Includes an integrated reed switch (for use with your favorite contact magnet) and one temperature sensor. LED indicators confirm alignment of your contact magnet, proper mesh network operation, and connectivity, and proper operation of externally connected contact switches. Internal and external antenna models are available.

Panelized Lighting Specifications

Control4 5-Slot and 2-Slot Panels

5-Slot Panel (C4-DIN-5PAN), 2-Slot Panel (C4-DIN-2PAN)



The Control4® 5-Slot and 2-Slot Panels house all centralized components of a Control4® Panelized Lighting system. Both panels include a variety of creative features designed to make installation and wiring of the system quick and convenient.

Product features

- Surface mount or flush mount between a standard 16-inch-on-center stud bay.
- Generous space at the top and bottom of the panel for electrical wiring, along with numerous knock-outs at top, bottom, and sides.
- Swivel divider at the top and bottom effectively separates line-voltage and low-voltage wiring, providing the maximum amount of space possible for each type of wire as needed.
- Several zip-tie points on the left and right of the panel for wire management.
- DIN rail mounting for modules allows modules to easily snap on and off—no screws required.
- Terminal block mounting points provide quick and easy installation of terminal blocks (sold separately).
- All modules protrude through the front cover for access to channel status LEDs and easy control of individual loads without having to remove the cover (optional security cover available to prevent access to module buttons and LEDs if desired).

Included

- Front cover (metal)
- Back box (metal)
- C4-DIN-SF Slot Fillers
  - 5-Slot Panel (2 packages)
  - 2-Slot Panel (1 package)
- *5-Slot and 2-Slot Panels Installation Guide*

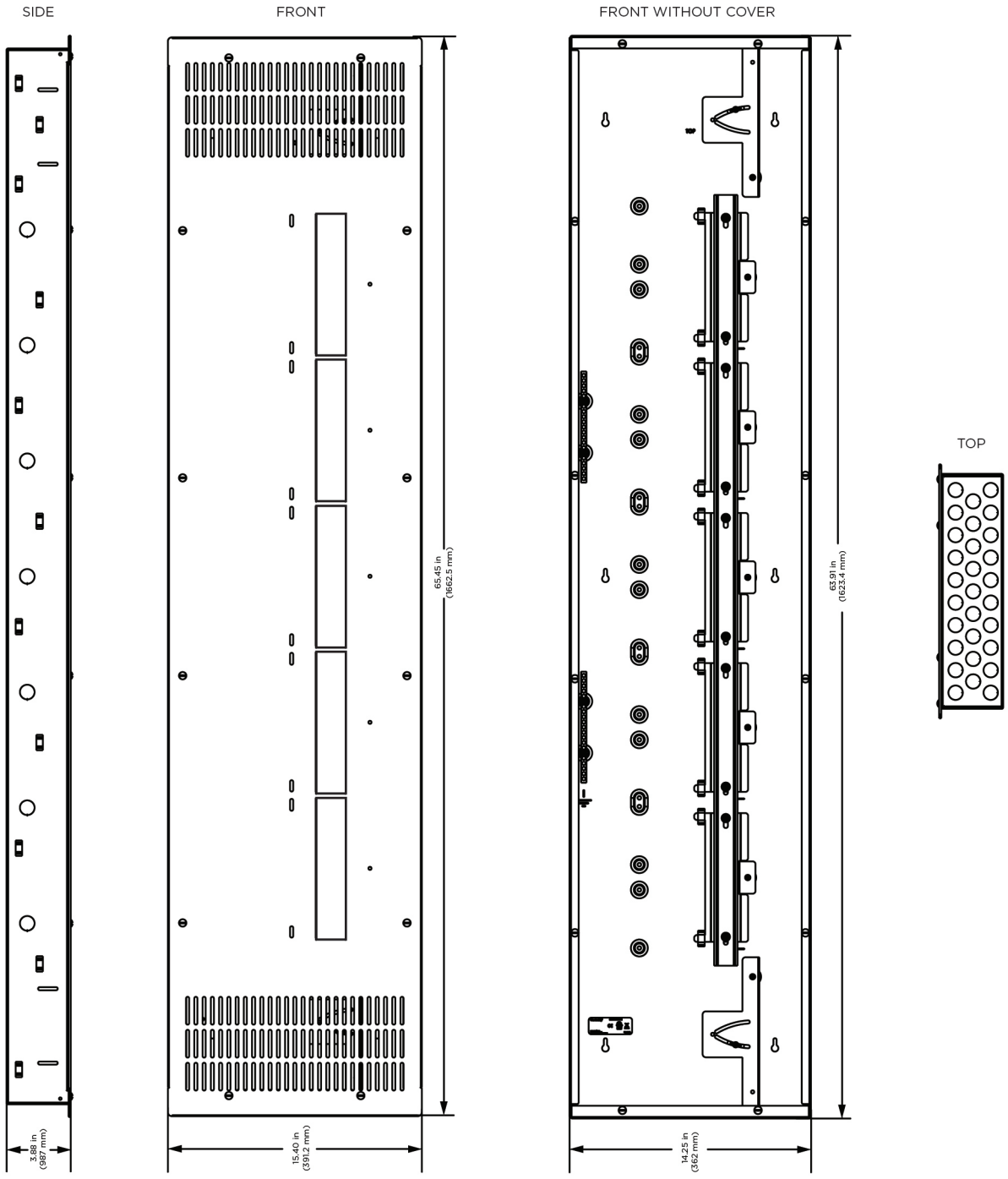
Installation notes

- Panels must be installed vertically.
- The panels are convection cooled. Install the panel in a location where the vented cover is not blocked. At least 12 inches (30 cm) clearance is required away from the front of the panel. Some local codes may require as much as 36 inches (91 cm) of clearance.
- Install the panel in a climate-controlled area to prevent module overheating.
- Install the panel where some noise is acceptable. Modules in the panel may hum and make clicking noises when in use.
- Panels may all be centrally located or may be distributed throughout the home or business.
- Panels should be installed prior to rough-in wiring, allowing the electrician to pull cables directly into the panel during the rough-in.

For full installation instructions and warnings, see the *5-Slot and 2-Slot Panels Installation Guide*.

Specifications

	Control4® 5-Slot Panel	Control4® 2-Slot Panel
Model number	C4-DIN-5PAN	C4-DIN-2PAN
Back Box Dimensions (H×W×D)	63.9″ × 14.3″ × 3.8″ (162.3 cm × 36.2 cm × 9.5 cm)	33.5″ × 14.3″ × 3.8″ (85.1 cm × 36.2 cm × 9.5 cm)
Dimensions with Cover (H×W×D)	65.5″ × 16″ × 0.3″ (166.37 cm × 40.64 cm × 0.6 cm)	34.9″ × 16″ × 0.3″ (88.6 cm × 40.64 cm × 0.6 cm)
Weight	49.4 lb (22.4 kg)	27.35 lb (12.4 kg)
Shipping Weight	56.5 lb (25.6 kg)	33.6 lb (15.2 kg)



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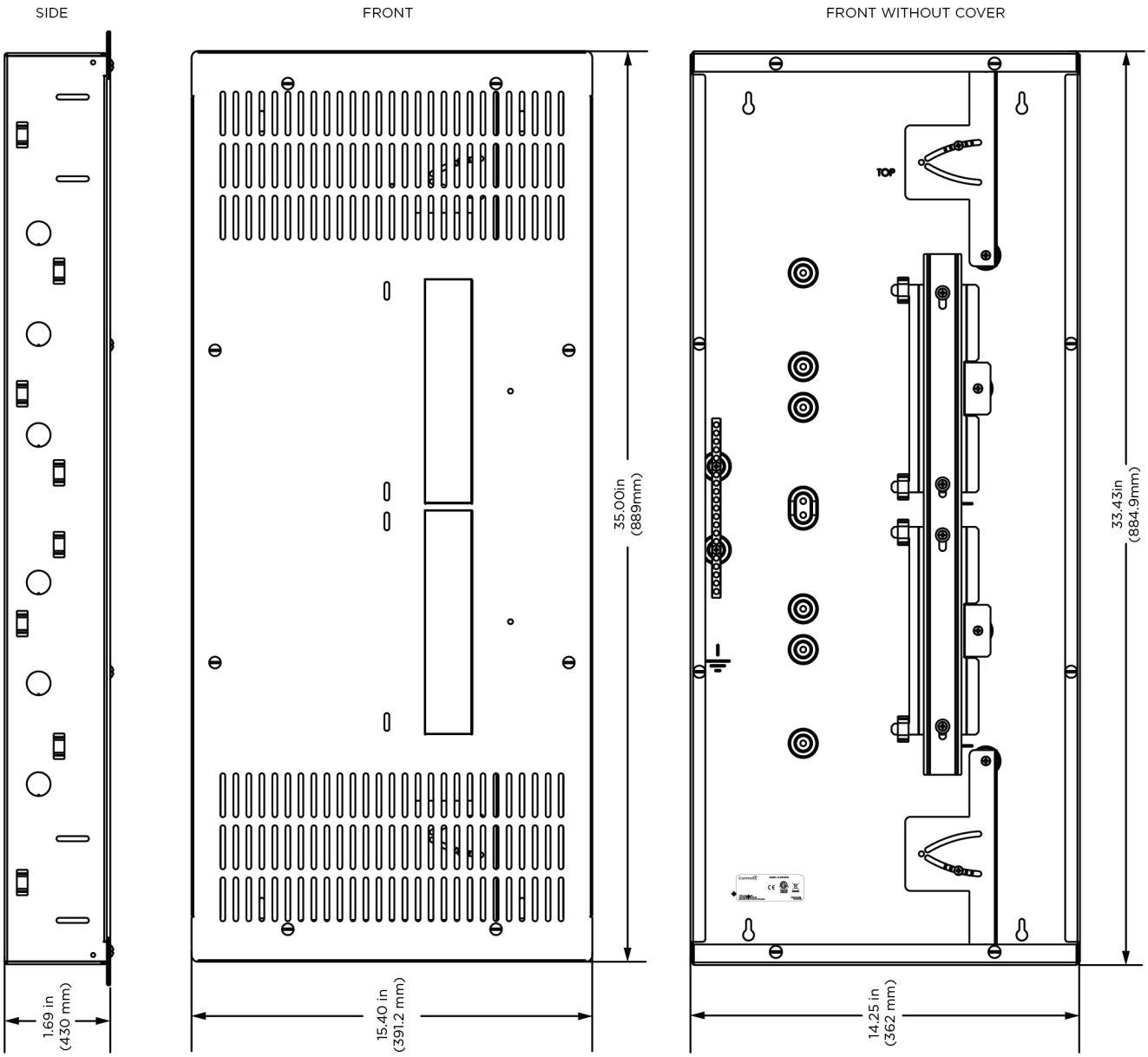

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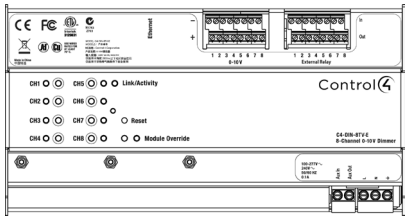
Control4 8-Channel 0-10V Dimmer

(C4-DIN-8TV-E)



The Control4® 8-Channel 0-10V Dimmer controls up to eight 0-10V dimmable fluorescent ballasts or LEDs. Each channel can control up to 50 ballasts. Individual 0-10V lights can be programmatically tied to a corresponding channel on an 8-Channel Relay module for on/off control of the ballast or LED when needed. Alternatively, the Control4 8-Channel 0-10V Dimmer module also has eight low-voltage outputs for triggering external power relays.

Product features

- 110V to 277V operation.
- IP controlled.
- Sync up to 100mA per channel for control of up to 50 ballasts or source up to 25mA per channel for control of up to 12 ballasts.
- Channel buttons allow for toggling on/off or ramping up/down a load.
- Channel status LEDs indicate load status.
- Module override button allows toggling between the module override scene and all channels off or setting the module override scene to current channel levels.
- Module status LED indicates if module power is on with normal operation or off.
- Auxiliary override connection allows a standard line-voltage toggle switch to control the attached lights before the control system is installed or in case the controller malfunctions.

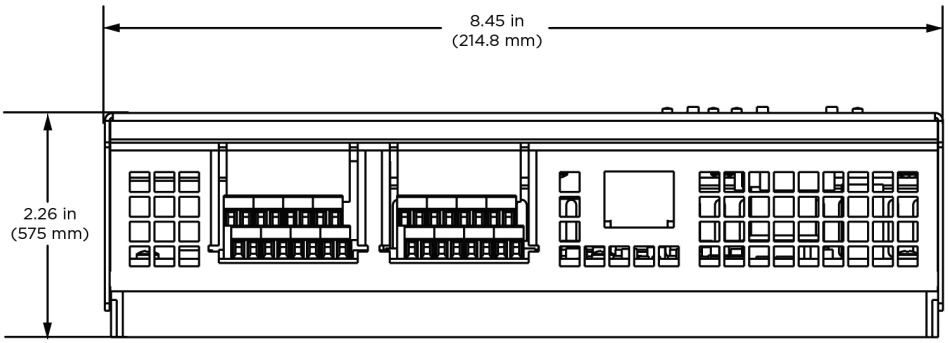
Included

- 8-Channel 0-10V Dimmer
- *8-Channel 0-10V Dimmer Installation Guide*
- *8-Channel 0-10V Module Wiring Guide*

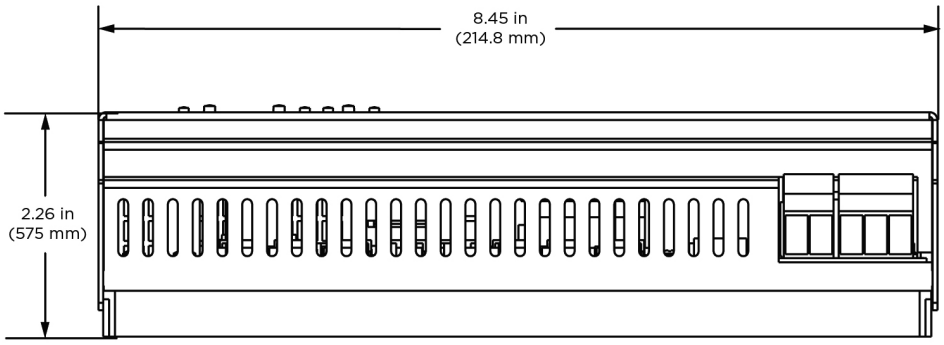
Installation notes

- Prior to installation, determine whether on/off control of each 0-10V load is required in addition to the 0-10V control. If it is, determine whether a corresponding channel on a Control4 8-Channel Relay Module will be used, or whether an external power relay (such as a Leviton Power Pack Relay) will be used.
- In the US and Canada, modules must be installed in a Control4 2-Slot or 5-Slot panel to meet regulatory requirements. Outside of the US and Canada, modules may be installed in either a Control4 panel, an off-the-shelf DIN rail panel, or a custom DIN rail enclosure per local regulatory requirements.
- If using a Control4 panel, install the Terminal Block for the 0-10V Dimmer (C4-DIN-TB-PO) following the instructions in the Terminal Block Installation Guide and in the location defined by the Composer Pro Panel Reports. The Terminal Block should be installed in the lower half of the specified Terminal Block slot area. Terminal block installation should be done prior to rough-in so that the electrician can terminate wires during the rough-in.
- Module must be installed in a climate-controlled area to prevent overheating.
- For full installation instructions and warnings, see the *0-10V Dimmer Installation Guide and 0-10V Dimmer Wiring Guide*.

TOP



BOTTOM



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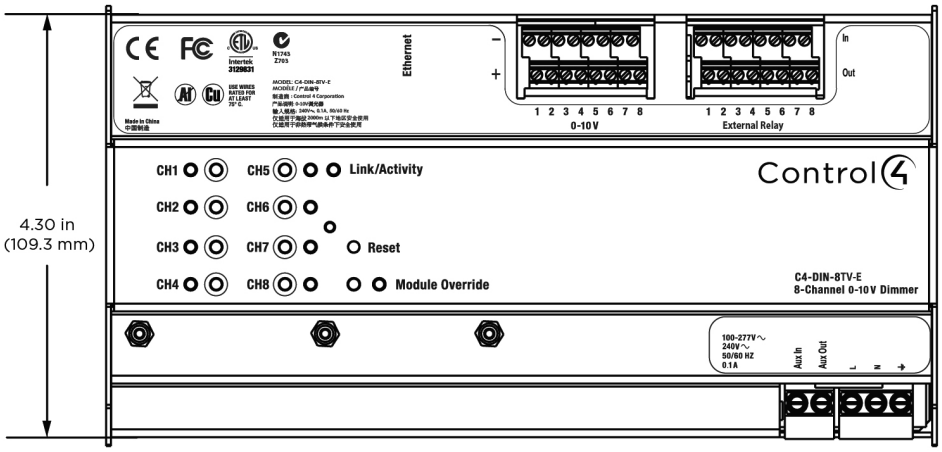
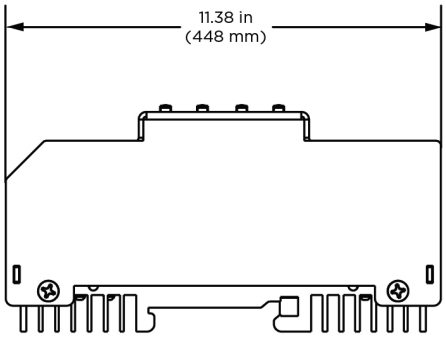


SIDE



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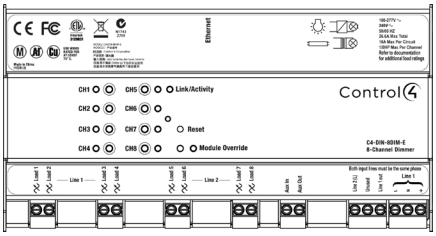
Specifications

Model Number	C4-DIN-8TV-E
Power Requirements	100-277VAC, 50/60 Hz
0-10V Per Channel Max	100mA sink (approximately 50 ballasts—see ballast specifications) 25mA source (approximately 12 ballasts—see ballast specifications)
External Relay Channel Rating	24V max, 50mA max
Power Consumption	2.5W
Supported Load Types	0-10V and 1-10V dimmable fluorescent ballasts and LEDs, sink or source.
Control Communcations	Ethernet
Connectors	
5 Line Voltage Screw Terminals (Line, Neutral, Ground, Aux In, Aux Out)	26 AWG to 12 AWG (0.12 mm^2 to 4 mm^2)
16 0-10V Screw Terminals (8+, 8-)	26 AWG to 16 AWG (0.12 mm^2 to 1.5 mm^2)
16 External Relay Screw Terminals (8 in, 8 out)	26 AWG to 16 AWG (0.12 mm^2 to 1.5 mm^2)
Ethernet	RJ-45 (1)
Environmental	
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C)
Humidity	5% - 95% Non-condensing
Storage Temperature	-4˚F - 158˚F (-20˚C - 70˚C)
Dimensions	
H × W × D	8.5" × 4.3" × 2.3" (215 mm × 109 mm × 57 mm)
DIN Module Width	12M
Weight	2.4 lb (1.1 kg)
Shipping Weight	2.90 lb (1.3 kg)

Control4 8-Channel Dimmer

(C4-DIN-8DIM-E)



The Control4® 8-Channel Dimmer controls up to eight loads from one module in the Control4 system. With adaptive phase dimming technology, the 8-Channel Dimmer automatically detects the load type on each channel and sets the appropriate dimming mode for each load.

Product features

- 110V to 277V operation.
- IP controlled.
- Each channel can be set to different dimming modes, including Switch Mode, Forward Phase Mode, Reverse Phase Mode, Autodetect Mode, or Switched Mode.
- Each channel supports a variety of load types, including incandescent, halogen, electronic low voltage (solid state) transformers, magnetic (iron core) low voltage transformers, fluorescents, compact fluorescents, LEDs, and motors.
- Channel buttons allow for toggling on/off or ramping up/down a load.
- Can be configured to control small, non-dimmable loads such as LEDs, CFLs, and bath exhaust fans.
- Channel status LEDs indicate whether a load is on, off, or in short circuit fault.
- Module override button allows toggling between the module override scene and all channels off or setting the module override scene to current channel levels.
- Module status LED indicates if module power is on with normal operation, off, or in thermal overload.
- Link/Activity LED indicates system link status, communication activity, or firmware update status.
- Auxiliary override connection allows a standard line-voltage toggle switch to control the attached lights before the control system is installed or in case the controller malfunctions.

Included

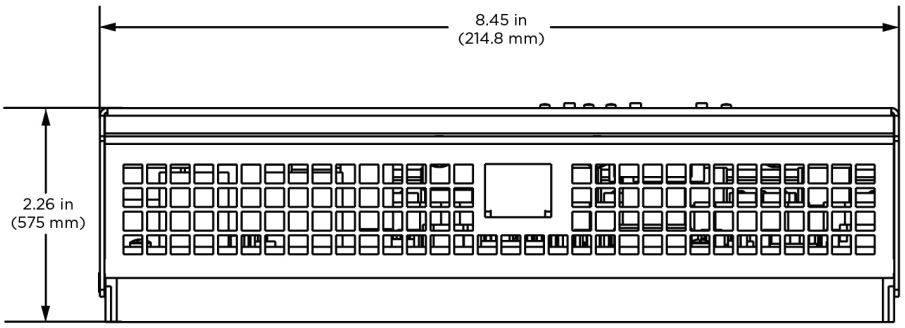
- 8-Channel Dimmer
- *8-Channel Dimmer Installation Guide*
- *8-Channel Dimmer Wiring Guide*
- *8-Channel Dimmer Operation and Configuration Guide*

Installation notes

- In the US and Canada, modules must be installed in a Control4 2-Slot or 5-Slot panel to meet regulatory requirements. Outside of the US and Canada, modules may be installed in either a Control4 panel, an off-the-shelf DIN rail panel, or a custom DIN rail enclosure per local regulatory requirements.
- If using a Control4 panel, install the Terminal Block for the 8-Channel Dimmer (C4-DIN-TB-8DIM) following the instructions in the *Terminal Block Installation Guide* and in the location defined by the Composer Pro Panel Reports. Terminal block installation should be done prior to rough-in so that the electrician can terminate wires during the rough-in.
- Module must be installed in a climate-controlled area to prevent overheating.
- Module should be installed where some noise is acceptable, as the module makes clicking noises during operation.
- When using two separate line inputs, both line inputs must be on the same electrical phase.
- If only 1 line input is being used, the jumper from Line 1 Input to Line 2 Input must be installed or channels 5-8 will not operate.
- When first installed, all channels are set to switch mode only. If dimming is required prior to configuration in a Control4 project, the dimming mode can be set using the buttons on the front of the module. Refer to the *8-Channel Dimmer Operation and Configuration Guide* for instructions. After the module has been identified into a Control4 project, only Composer can be used to set the dimming mode because the configuration from the module buttons will be locked out.
- If loads are swapped on a module after the autodetection has occurred, a new autodetect must be forced on all affected channels (either from the buttons on the front of the module or via Composer) to ensure proper operation and prevent damage to the Dimmer and the load.

For full installation instructions and warnings, see the *8-Channel Dimmer Installation Guide*, *8-Channel Dimmer Wiring Guide*, and *8-Channel Dimmer Operation and Configuration Guide*.

TOP



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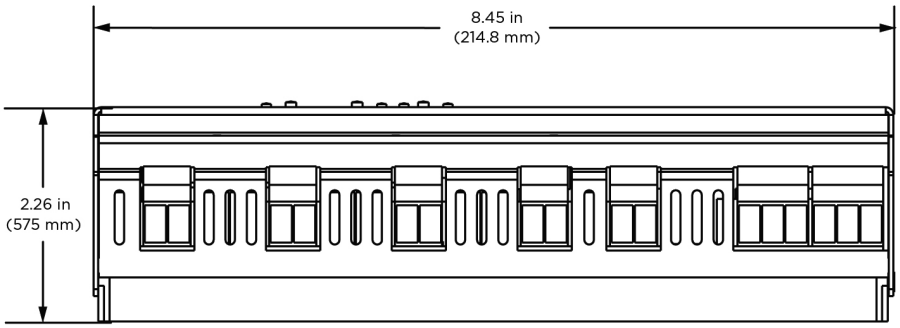

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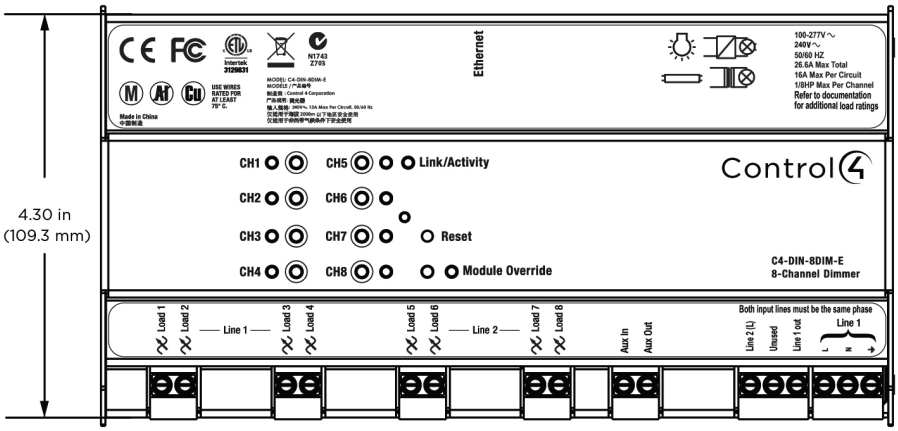

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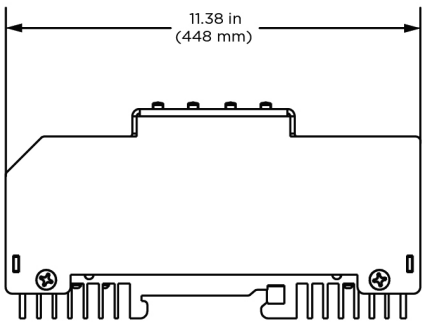

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Specifications

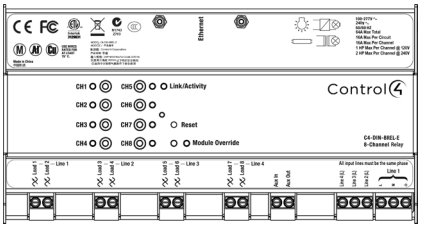
Model Number	C4-DIN-8DIM-E		
Power Requirements	100-277VAC, 50/60 Hz		
Line Feeds (Circuits)	1 or 2		
Power Consumption	4W		
Supported Load Types	Incandescent, Halogen, Electronic Low Voltage Transformers (ELV), Magnetic (Iron Core) Low Voltage Transformers (MLV), Fluorescents, Compact Fluorescents, LEDs, Motors		
Control Communcations	Ethernet		
Module Load Ratings in Contro4® Panel			
	120V	**240V**	**277V**
Module Max with Two Line-Ins	3200W	6000W	6000W
Line-In 1 Max	1920W	3840W	3840W
Line-in 2 Max	1920W	3840W	3840W
Module Max with One Line-In	1920W	3840W	4400W
Module Load Ratings in Standard DIN Rail Panel			
	120V	**240V**	**277V**
Module Max with Two Line-Ins	1920W	3840W	N/A
Line-In 1 Max	1000W	2000W	N/A
Line-in 2 Max	1000W	2000W	N/A
Module Max with One Line-In	1920W	3840W	N/A

Individual Channel Load Ratings				
		120V	**240V**	**277V**
Incandescent, Tungsten, Halogen, Electronic (Solid State) Low Voltage Transformers (ELV), Magnetic (Iron Core) Low Voltage Transformers (MLV)	Max Dimmable:	1000W	2000W	2300W
	Max Non-dimmable:	500W	1000W	1150W
	Min:	2W	2W	2W
Fluorescent, Compact Fluorescent (CFL)	Max Dimmable:	500W	1000W	1150W
	Max Non-dimmable:	250W	500W	575W
	Min:	2W	2W	2W
LED	Max Dimmable:	200W	400W	460W
	Max Non-dimmable:	200W	400W	460W
	Min:	2W	2W	2W
Motors	Max Dimmable:	N/A	N/A	N/A
	Max Non dimmable	1/8 HP	1/8 HP	1/8 HP
	Min:	N/A	N/A	N/A

Connectors	
16 Line Voltage Screw Terminals (Line 1, Line 2, Line 3, Line 4, Neutral, Earth Ground, Loads 1-8, Aux In, Aux Out, unused)	One 26 AWG to 12 AWG (0.12 mm^2 to 4 mm^2) per terminal
One (1) Ethernet	RJ-45
Environmental	
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C)
Humidity	5% - 95% Non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Dimensions	
H × W × D	8.5" × 4.3" × 2.3" (215 mm × 109 mm × 57 mm)
DIN Module Width	12M
Weight	2.8 lbs (1.3 kg)
Shipping Weight	3.2 lbs (1.4 kg)

Control4 8-Channel Relay

(C4-DIN-8REL-E)



The Control4® 8-Channel Relay controls up to eight high in-rush loads from one module in the Contro4 system. Each channel supports a variety of load types including Incandescent, Halogen, Electronic Low Voltage Transformers, Magnetic Low Voltage Transformers, Fluorescents, Compact Fluorescents, LEDs, and motors.

Product features

- 110V to 277V operation.
- IP controlled.
- Controls up to eight high in-rush loads.
- Each channel is rated for 16 Amps.
- Channel buttons allow for toggling on/off a load.
- Channel status LEDs indicate whether a load is on or off.
- Module override button allows toggling between the module override scene and all channels off or setting the module override scene to current channel on/off settings.
- Module status LED indicates if module power is on with normal operation, off, or in thermal overload.
- Link/Activity LED indicates system link status, communication activity, or firmware update status.
- Auxiliary override connection allows a standard line-voltage toggle switch to control the attached lights before the control system is installed or in case the controller malfunctions.

Included

- 8-Channel Relay
- *8-Channel Relay Installation Guide*
- *8-Channel Relay Wiring Guide*

Installation notes

- In the US and Canada, modules must be installed in a Control4 2-Slot or 5-Slot panel to meet regulatory requirements. Outside of the US and Canada, modules may be installed in either a Control4 panel, an off-the-shelf DIN rail panel, or a custom DIN rail enclosure per local regulatory requirements.
- If using a Control4 panel, install the Terminal Block for the 8-Channel Relay (C4-DIN-TB-8REL) following the instructions in the *Terminal Block Installation Guide* and in the location defined by the Composer Pro Panel Reports. Terminal block installation should be done prior to rough-in so that the electrician can terminate wires during the rough-in.
- Module should be installed in a climate-controlled area.
- Module should be installed where some noise is acceptable, as the module makes clicking noises during operation.
- When using multiple line inputs, all line inputs must be on the same electrical phase.
- If more than two channels will share a single line input, the line-in must be fed into all appropriate Line In terminals on the module. The line-in will need to be split via external connections because no jumper is provided on the Relay Module for combining line inputs.
- Line feed 1 powers channels 1-2. Line feed 2 powers channels 3-4. Line feed 3 powers channels 5-6. Line feed 4 powers channels 7-8. Module power is provided on Line feed 1. It must be connected for proper operation. If only Line feed 1 is used, LIne feeds 2, 3, and 4 must be connected in parallel.

For full installation instructions and warnings, see the *8-Channel Relay Installation Guide and 8-Channel Relay Wiring Guide*.

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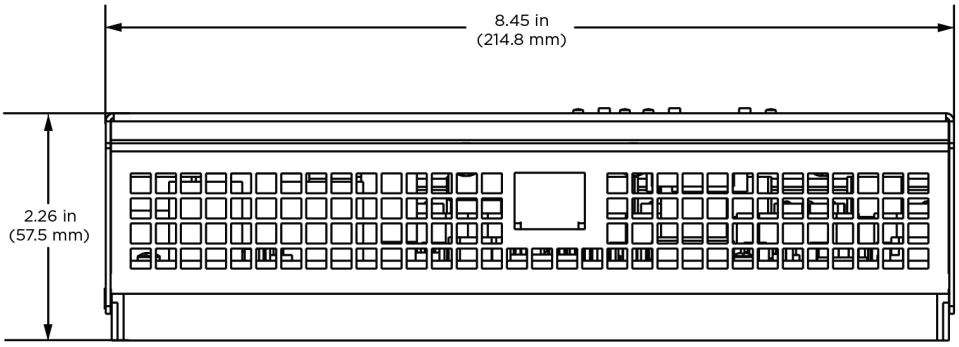

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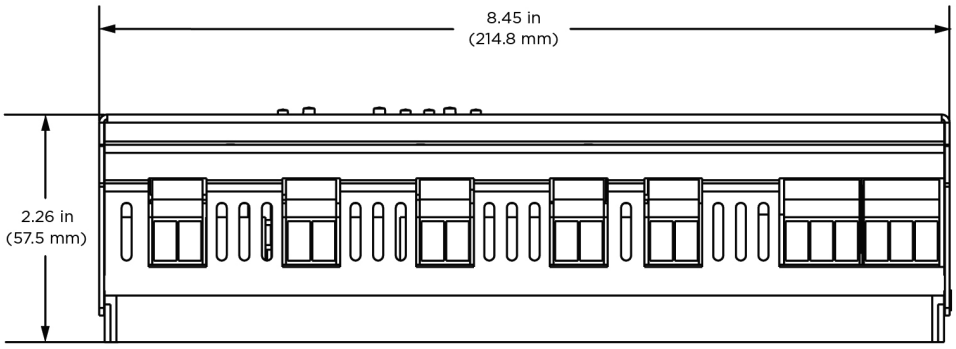

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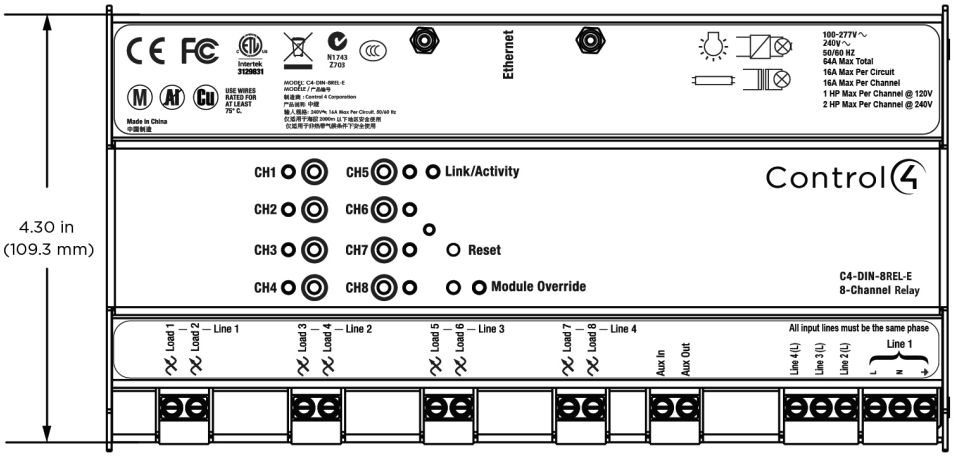

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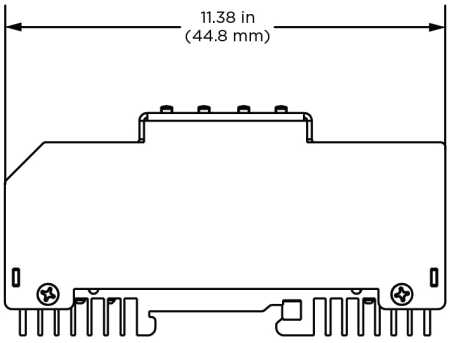

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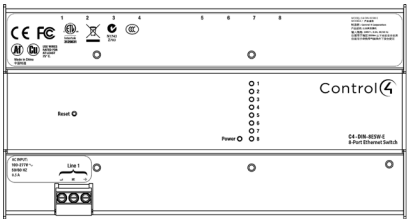
Specifications

Model Number	C4-DIN-8REL-E		
Power Requirements	100-277VAC, 50/60 Hz		
Line Feeds (Circuits)	4		
Power Consumption	3W		
Supported Load Types	Incandescent, Halogen, Electronic Low Voltage Transformers (ELV), Magnetic Low Voltage Transformers (MLV), Fluorescents, Compact Fluorescents, LEDs, Motors		
Control Communcations	Ethernet		
Module Load Ratings in Contro4 Panel			
	120V	**240V**	**277V**
Module Max	64A	64A	64A
Line-In 1 Max	16A	16A	16A
Line-in 2 Max	16A	16A	16A
Line-in 3 Max	16A	16A	16A
Line-in 4 Max	16A	16A	16A
Individual Channel Max	16A 1HP	16A 2HP	16A
Connectors			
16 Line Voltage Screw Terminals (Line 1, Line 2, Line 3, Line 4, Neutral, Earth Ground, Loads 1-8, Aux In, Aux Out, unused)	One 26 AWG to 12 AWG (0.12 mm^2 to 4 mm^2) per terminal		
One Ethernet	RJ-45		
Environmental			
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C)		
Humidity	5% - 95% Non-condensing		
Storage	-4˚F - 158˚F (-20˚C - 70˚C)		
Dimensions			
H × W × D	8.5" × 4.3" × 2.3" (215 mm × 109 mm × 57 mm)		
DIN Module Width	12M		
Weight	2.9 lbs (1.3 kg)		
Shipping Weight	3.3 lbs (1.4 kg)		

Control4 8-Port Ethernet Switch

(C4-DIN-8ESW-E)



The Control4® 8-Port Ethernet Switch is a standard 8-port 10/100 switch that allows a single Ethernet CAT5e cable to be pulled into a lighting panel, and then distributed to up to seven other Control4 Panelized Lighting devices including Dimmer, Relay, and Bus Ethernet Bridge Modules within the panel.

Product features

- 110V to 277V operation.
- Link/Activity LEDs indicate system link status and communication activity.
- Power LED for power status.
- Reset button for rebooting the Ethernet switch without removing power.
- Line input for power.

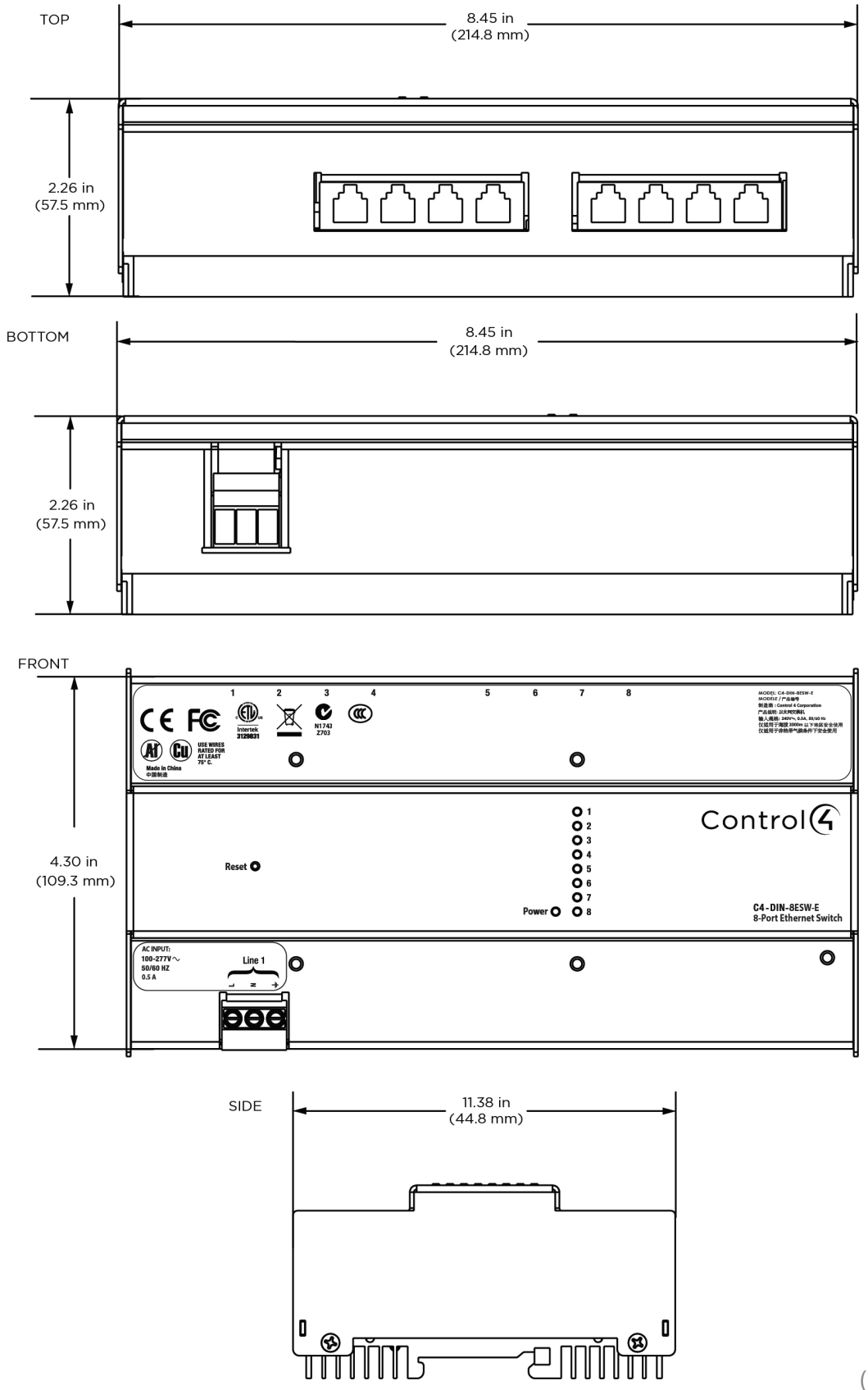
Included

- 8-Port Ethernet Switch
- *8-Port Ethernet Switch Installation Guide*
- *8-Port Ethernet Switch Wiring Guide*

Installation notes

- In the US and Canada, modules must be installed in a Control4 2-Slot or 5-Slot panel to meet regulatory requirements. Outside of the US and Canada, modules may be installed in either a Control4 panel, an off-the-shelf DIN rail panel, or a custom DIN rail enclosure per local regulatory requirements.
- If using a Control4 panel, install the Terminal Block for the 8-Port Ethernet Switch (C4-DIN-TB-PO) following the instructions in the *Terminal Block Installation Guide* and in the location defined by the Composer Pro Panel Reports. The Terminal Block should be installed in the upper half of the specified Terminal Block slot area. Terminal block installation should be done prior to rough-in so that the electrician can terminate wires during the rough-in.
- Module should be installed in a climate-controlled area.
- Module should be installed where some noise is acceptable, as the module makes clicking noises during operation.

For full installation instructions and warnings, see the *8-Port Ethernet Switch Installation Guide* and *8-Port Ethernet Switch Wiring Guide*.



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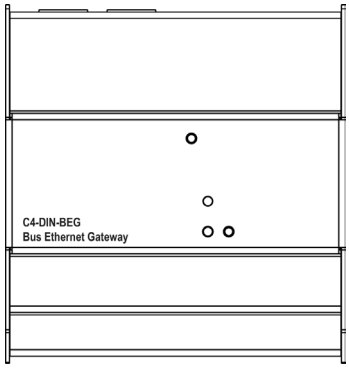
Specifications

Model Number	C4-DIN-8ESW-E
Power Requirements	110V-277VAC, 50/60 Hz
Operating Temperature	32˚F - 104˚F (0˚C - 40˚C)
Power Consumption	2W
Communications	10/100 Ethernet
Connectors	Three Screw Terminals (Line, Neutral, Ground) One 26 AWG to 12 AWG (0.12 mm - 4 mm^2) per terminal Eight RJ-45 Ethernet
Humidity	5% - 95% Non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Dimensions (H×W×D)	8.5" × 4.3" × 2.3" (215 mm × 109 mm × 57 mm)
DIN Module Width	12M
Weight	2.3 lbs. (1.04 kg)
Shipping Weight	2.8 lbs. (1.27 kg)

Control4 Bus Ethernet Gateway

(C4-DIN-BEG)



The Control4® Bus Ethernet Gateway is the connection point for all wired keypads and other devices on the Control4 Panelized Lighting RS-485 bus.

Product features

- 110V to 277V operation.
- IP controlled.
- Converts RS-485 communication to Ethernet.
- Connection point for wired keypads and other devices on the RS-485 bus.
- Compatible with the 48V bus power supply.
- Communicates with up to 80 Wired Keypads.
- Enables fallback operation to allow wired keypads to activate basic lighting control, even if the main Control4 controller or the IP router is offline.

See the *Keypad Bus Wiring Recommendations* document for details on maximum number of devices per gateway.

Included

- Bus Ethernet Gateway
- Pluggable Terminal Blocks (2)
- *Bus Ethernet Gateway Installation Guide*

Installation notes

- May be installed in either a Control4 panel, an off-the-shelf DIN rail panel, or a custom DIN rail enclosure per local regulatory requirements. In a Control4 Panel, the Gateway occupies ½ slot.
- Gateway receives power from the Bus Power Supply.
- Gateway should be installed in a climate-controlled area.

For full installation instructions and warnings, see the *Bus Ethernet Gateway Installation Guide*. For bus wiring details, refer to the *Keypad Bus Wiring Guide*.

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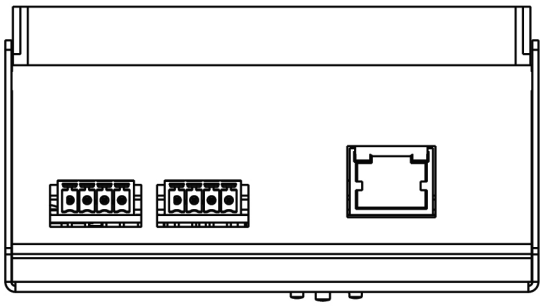

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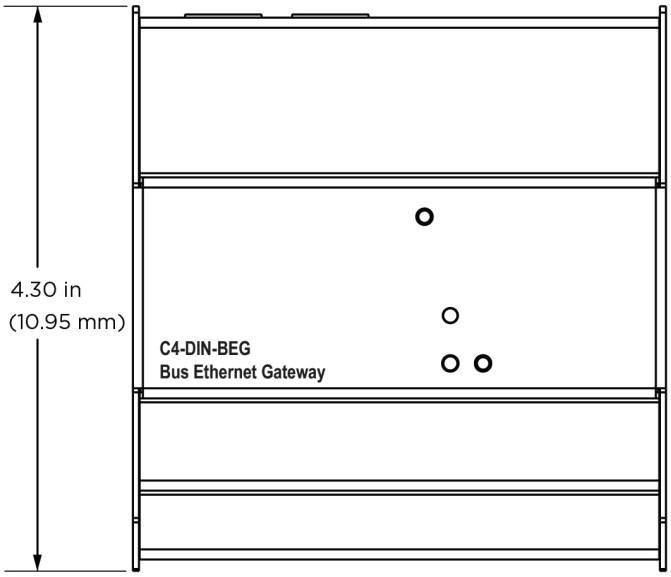

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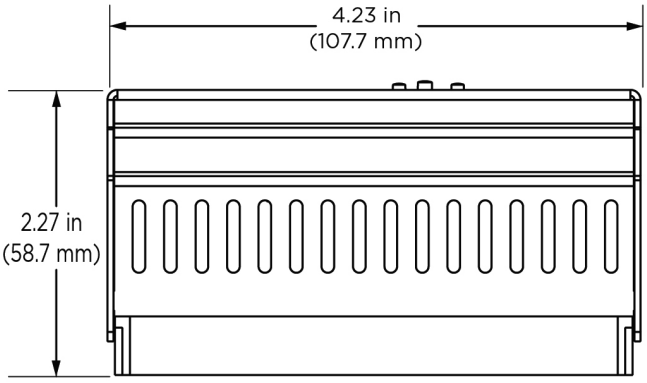

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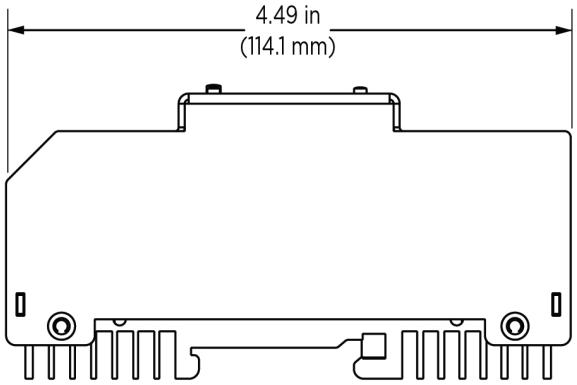

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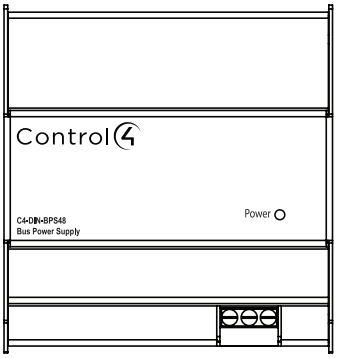
Specifications

Model Number	C4-DIN-BEG
Power Input	48VDC
Power Consumption	1.5mW
Control Communications	10/100 Ethernet
Environmental	
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C)
Humidity	5% to 95% non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Connectors	
Ethernet (1)	RJ-45
RS-485 Pluggable Terminal Blocks (2)	36 AWG to 14 AWG (0.14 mm^2 to 1.5 mm^2)
Dimensions	
Dimensions (H × W × D)	4.23″ × 4.48″ × 2.32″ (107.5 mm × 113.9 mm × 59 mm)
Din Module Width	6M
Weight	1.15 lb. (0.52 kg)
Shipping Weight	1.55 lb. (0.70 kg)

Control4 Bus Power Supply (48V)

(C4-DIN-BPS48)



The Control4 48V Bus Power Supply provides power for the Configurable Wired Keypads (C4-KCB and C4-SKCB), the Bus Ethernet Gateway (C4-DIN-BEG), and the Dry Contact Input Module (C4-DCIM). It can also be used to power the Configurable Wired Keypads (C4-KC120/277 and C4-KC240) in a mixed wired/wireless keypad installation. This product is used in conjunction with the Control4 Bus Ethernet Gateway to allow keypads on the RS-485 bus to communicate with a Control4 controller and the Panelized Lighting system.

Product features

- 110V to 277V Line input for power.
- LED for power status.
- Mounts in the Control4 5- or 2-Slot Panel, or in any standard DIN rail panel with 35 mm rails.
  - Occupies 1/2 slot in a Control4 panel.
- See the *Keypad Bus Wiring Guide* for details on maximum number of keypads per power supply.

Included

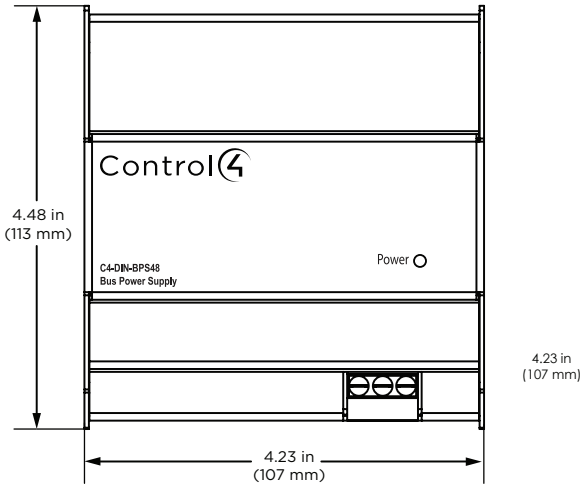
- Bus Power Supply, 48V
- One Pluggable Terminal Block
- *Bus Power Supply, 48V Installation Guide*

Installation notes

- Installs in any standard DIN rail panel.
- Should be installed in a climate-controlled area.

For full installation instructions and warnings, see the *Bus Power Supply, 48V Installation Guide*. For bus wiring details, refer to the *Keypad Bus Wiring Guide*.

FRONT



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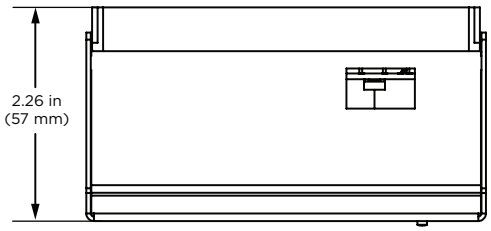

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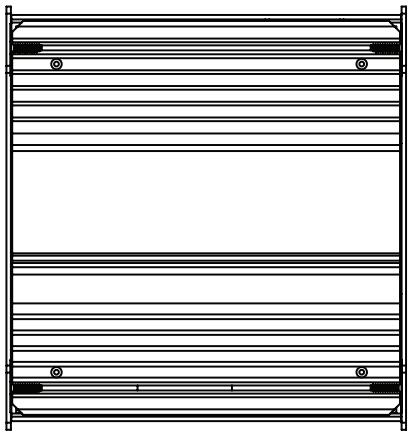

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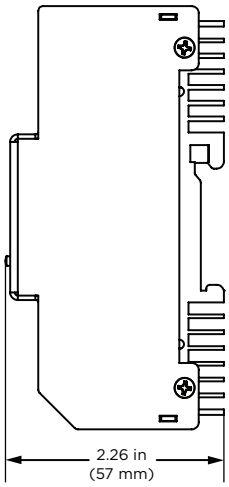

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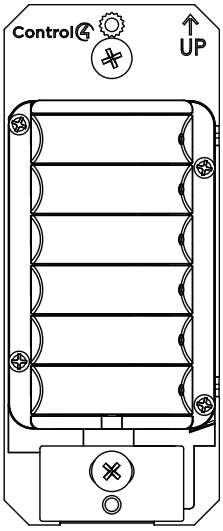
Specifications

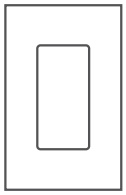
Model Number	C4-DIN-BPS48
Power Input	100-277VAC/1.25A
Power Consumption	75W, 120V/1.0A; 240V/0.6A; 277V/0.52A
Connectors	
One RS-485 Pluggable Terminal Block	36AWG to 14AWG (0.14 to 1.5 mm^2) per terminal
One Line Voltage Screw Terminal (Line, Neutral, Ground)	One 26AWG to 12AWG (0.12 to 4 mm^2) per terminal
Environmental	
Operational Temperature	32˚F ~ 104˚F (0˚C ~ 40˚C)
Humidity	5% to 95% non-condensing
Storage	-4˚F ~ 158˚F (-20˚C ~ 70˚C)
Dimensions	
Dimensions (H x W x D)	4.23″ × 4.48″ × 2.32″ (107.5 mm × 113.9 mm × 59 mm)
DIN Module Width	6M
Weight	1.3 lb (0.589 kg)
Shipping Weight	1.7 lb (0.770 kg)

Control4 Decora Wired Keypad

(C4-KCB)



Remember faceplates! *(Not included)*



1-Gang (C4-FP1-xx), 2-Gang (C4-FP2-xx), 3-Gang (C4-FP3-xx), 4-Gang (C4-FP4-xx), 1-Gang Square (C4-SFP1-xx)

Gloss: White (WH), Light Almond (LA), Ivory (IV), Brown (BN), Black (BL)

Satin: Snow White (SW), Midnight Black (MB), Biscuit (BI), Aluminum (AU)

Metal: Satin Nickel (SN), Stainless Steel (SS), Venetian Bronze (VB)

The Control4® Decora® Wired Keypad combines beautiful aesthetics and flexible button configuration, providing a stunning user interface that elegantly controls any aspect of a Control4 system. Control lights, scene, music, security—the possibilities are endless. The keypad can be configured with two to seven buttons using four different button sizes for a total of 37 possible configurations. There's no need to worry about how many buttons will be needed on a specific keypad prior to (or even after) installation.

Product features

- Uses RS-485-based bus communications.
- Fallback operation activates basic lighting control even if the main Control4 controller or the IP router is offline.
- Can be configured with two to seven buttons using four different button sizes for a total of 37 possible configurations (one button kit included). Available buttons include:
  - Single-high
  - Double-high
  - Triple-high
  - Up/Down (single-high)
- Available in a wide array of gloss and satin colors (see Available Colors in the specifications table).
- Custom engraving available to clearly identify each button.
- Backlit engraving provides easy readability regardless of light level or time of day.
- Status and backlight LED colors can be set to reflect a device or scene status or simply to complement the room's décor.
- Ambient light sensor automatically adjusts backlight and status LED brightness, depending on the light level in the room.

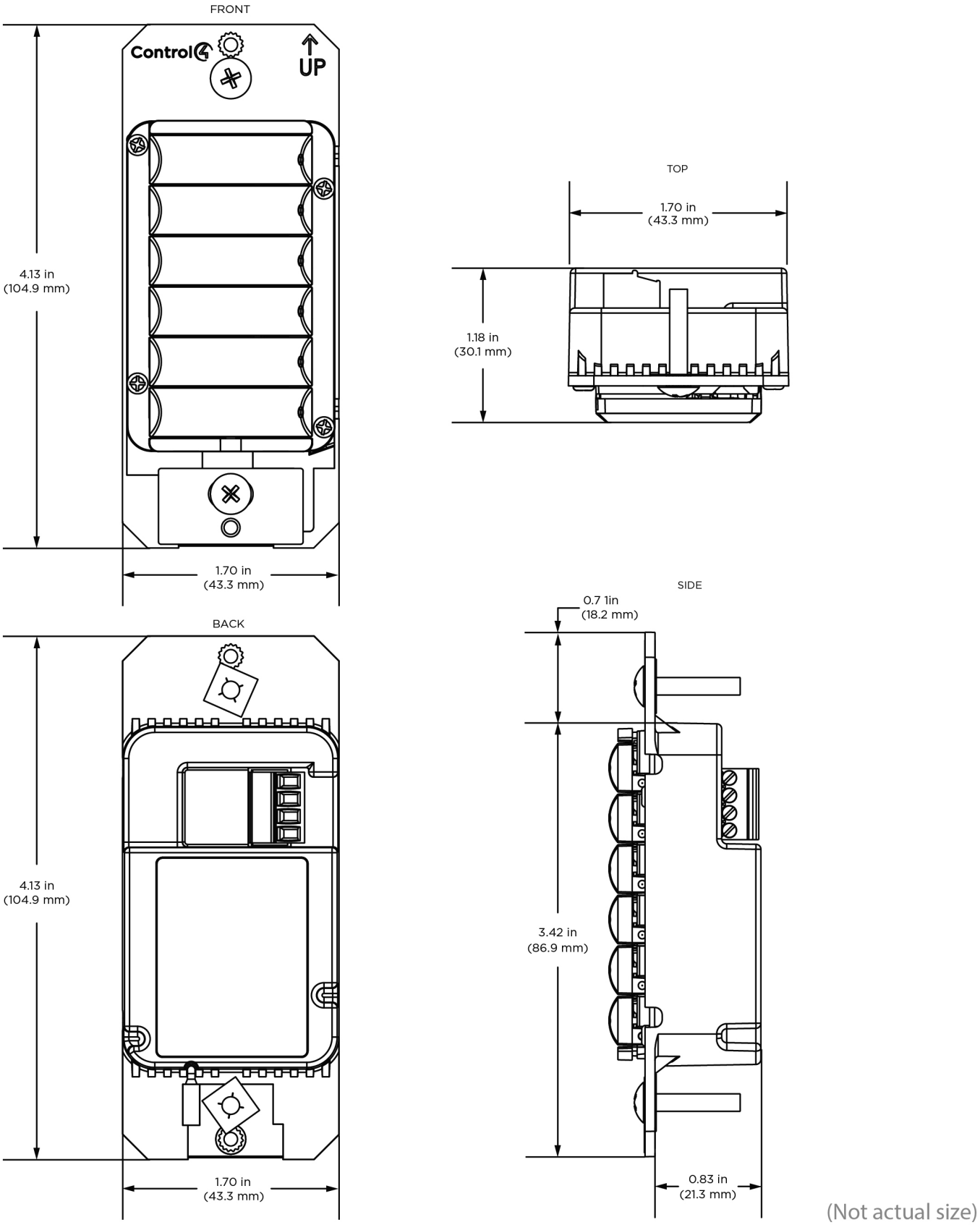
Included

- Decora Wired Keypad
- Keycap button kit
- Pluggable terminal block
- *Decora Wired Keypad Installation Guide*

Installation notes

- Follow **all** instructions in the installation guide.
- Installs in a standard NEMA wall box using typical wiring standards.
- The number of keypads that can be used per Bus Power Supply and per Bus Ethernet Gateway depends upon the wiring topology chosen. Prior to rough-in wiring, refer to the *Keypad Bus Wiring Guide* to ensure proper wiring in an allowed topology.
- Consider mixing wired and wireless keypads in an installation. Wired keypads provide the security of a wire and fallback capability, while wireless keypads help ensure a robust ZigBee® mesh.
- Must be powered by a Control4 48V Bus Power Supply.
- Remove power from bus before connecting or disconnecting a keypad from the bus.

For full installation instructions and warnings, see the *Configurable Decora Wired Keypad Installation Guide* and the *Keypad Button Installation Guide*. For bus wiring details, refer to the *Keypad Bus Wiring Guide*.



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Specifications

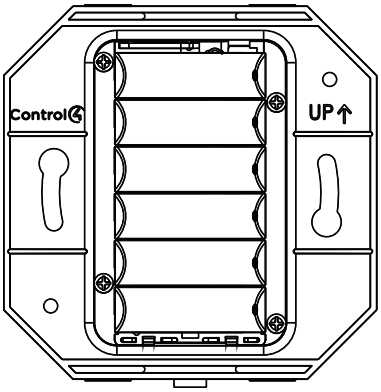
Model Number	C4-KCB
Programmable Buttons	2-7, depending on configuration
Button LED Feedback	One RGB status LED per button
Power Requirements	48VDC
Maximum Power Consumption	1.2W
Minimum Power Consumption	0.7W
Recommended Wiring	See "Keypad Bus Wiring Recommendations" document
Miscellaneous	
Control Communications	RS-485
Weight	0.1 lb (0.045 kg)
Shipping Weight	0.3 lb (0.14 kg)
Environmental	
Humidity	5% to 95% non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C)
Available Colors	
C4-KCB-xx	WH, LA, IV, BR, BL, SW, MB, BI, AU
Available Accessories	
Faceplate, 1 Gang (C4-FP1-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 2 Gang (C4-FP2-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 3 Gang (C4-FP3-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Faceplate, 4 Gang (C4-FP4-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU, SN, SS, VB
Color Kit (C4-CKKC-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Single High (C4-EBD1H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Double High (C4-EBD2H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Triple High (C4-EBD3H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU

Gloss Colors: WH=White, LA=Light Almond, IV=Ivory, BR=Brown, BL=Black
Satin Colors: SW=Snow White, MB=Midnight Black, BI=Biscuit, AU=Aluminum
Metal Finishes: SN=Satin Nickel, SS=Stainless Steel, VB=Venetian Bronze

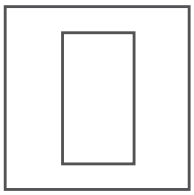
IMPORTANT NOTE: Requires Bus Ethernet Gateway (C4-DIN-BEG) and Bus Power Supply (C4-DIN-BPS48 or C4-BPS48)

Control4 Square Wired Keypad

(C4-SKCB)



Remember faceplates! *(Not included)*



1-Gang (C4-FP1-xx), 2-Gang (C4-FP2-xx), 3-Gang (C4-FP3-xx), 4-Gang (C4-FP4-xx), 1-Gang Square (C4-SFP1-xx)

Gloss: White (WH), Light Almond (LA), Ivory (IV), Brown (BN), Black (BL)

Satin: Snow White (SW), Midnight Black (MB), Biscuit (BI), Aluminum (AU)

Metal: Satin Nickel (SN), Stainless Steel (SS), Venetian Bronze (VB)

The Control4® Square Wired Keypad combines beautiful aesthetics and flexible button configuration, providing a stunning user interface that elegantly controls any aspect of a Control4 system. Control lights, scene, music, security—the possibilities are endless. The keypad can be configured with two to seven buttons using four different button sizes for a total of 37 possible configurations. There's no need to worry about how many buttons will be needed on a specific keypad prior to (or even after) installation.

Product features

- Uses RS-485-based bus communications.
- Fallback operation activates basic lighting control, even if the main Control4 controller or the IP router is offline.
- Can be configured with two to seven buttons using four different button sizes, for a total of 37 possible configurations (one button kit included). Available buttons include:
  - Single-high
  - Double-high
  - Triple-high
  - Up/Down (single-high)
- Available in a wide array of gloss and satin colors (see Available Colors in the specifications table).
- Custom engraving available to clearly identify each button.
- Backlit engraving provides easy readability regardless of light level or time of day.
- Status and backlight LED colors can be set to reflect a device or scene status or simply to complement the room's décor.
- Ambient light sensor automatically adjusts backlight and status LED brightness, depending on the light level in the room.

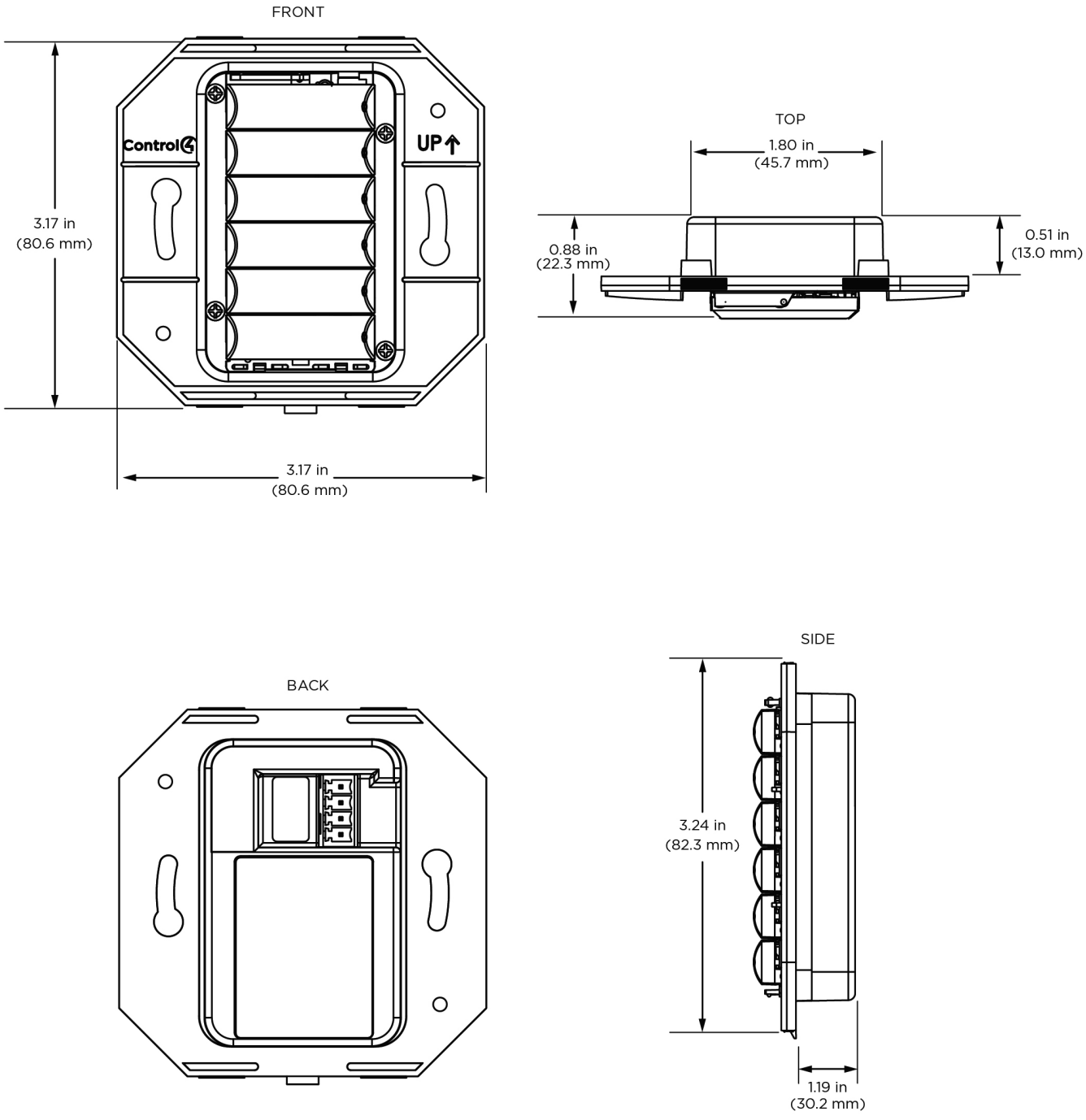
Included

- Square Wired Keypad
- Keycap button kit
- Pluggable terminal block
- *Square Wired Keypad Installation Guide*

Installation notes

- Follow **all** instructions in the installation guide.
- Must be mounted in a standard "UK style" square wall box. This keypad cannot be installed in a round wall box.
- The number of keypads that can be used per Bus Power Supply and per Bus Ethernet Gateway depends upon the wiring topology chosen. Prior to rough-in wiring, refer to the *Keypad Bus Wiring Guide* to ensure proper wiring in an allowed topology.
- Consider mixing wired and wireless keypads in an installation. Wired keypads provide the security of a wire and fallback capability, while wireless keypads help ensure a robust ZigBee® mesh.
- Must be powered by a Control4 48V Bus Power Supply.
- Remove power from bus before connecting or disconnecting a keypad from the bus.

For full installation instructions and warnings, see the *Configurable Square Wired Keypad Installation Guide* and the *Keypad Button Installation Guide*. For bus wiring details, refer to the *Keypad Bus Wiring Guide*.



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Specifications

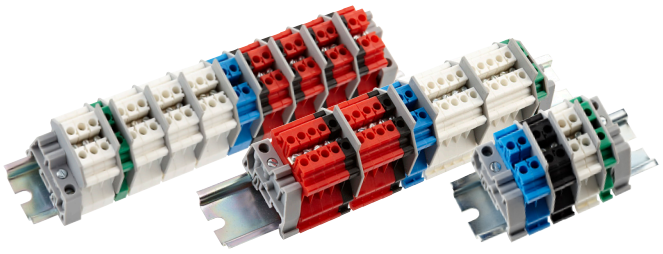
Model Number	C4-SKCB
Programmable Buttons	2-7 depending on configuration
Button LED Feedback	One RGB status LED per button
Power Requirements	48VDC
Maximum Power Consumption	1.2W
Minimum Power Consumption	0.7W
Recommended Wiring	See "Keypad Bus Wiring Recommendations" document
Miscellaneous	
Control Communications	RS-485
Weight	0.1 lb (0.045 kg)
Shipping Weight	0.3 lb (0.14 kg)
Environmental	
Humidity	5% to 95% non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C)
Available Colors	
C4-SKCB-XX	WH, LA, IV, BR, BL, SW, MB, BI, AU
Available Accessories	
Square Faceplate (C4-SFP1-XX)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Color Kit (C4-CKKC-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Single High (C4-EBD1H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Double High (C4-EBD2H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU
Engraved Button, Triple High (C4-EBD3H-xx)	WH, LA, IV, BR, BL, SW, MB, BI, AU

Gloss Colors: WH=White, LA=Light Almond, IV=Ivory, BR=Brown, BL=Black
Satin Colors: SW=Snow White, MB=Midnight Black, BI=Biscuit, AU=Aluminum

IMPORTANT NOTE: Requires Bus Ethernet Gateway (C4-DIN-BEG) and Bus Power Supply (C4-DIN-BPS48 or C4-BPS48)

Control4 Terminal Blocks

8-Channel Dimmer Terminal Block (C4-DIN-TB-8DIM)
8-Channel Relay Terminal Block (C4-DIN-TB-8REL)
Power/Override Terminal Block (C4-DIN-TB-PO)



Control4® Terminal Blocks mount in a Control4 Panelized Lighting Panel (C4- DIN-5PAN or C4-DIN-2PAN) and are used to terminate field wiring (Line, Neutral, and Load) for each circuit in a Panelized Lighting system. Terminal Blocks provide the appropriate connections for each module type.

Product features

- Available in three different models to accommodate the 8-Channel Dimmer, 8-Channel Relay, 8-Channel 0-10V Dimmer, Bus Power Supply or 8-Port Ethernet Switch modules with the appropriate connections.
- Includes terminal block and screws for quick installation into a 5-slot or 2-slot panel.
- Accommodates 22-12AWG wiring.

Included

- Terminal Block
- Two screws (10-32 × 0.375″, Phillips pan head)
- *Terminal Block Wiring Guide*
- *Terminal Block Installation Guide*

Installation notes

- Sold separately from modules to allow for termination of field wiring during the rough-in phase. All modules can then be installed and wired to the terminal block during the trim-out phase.
- Before you install any Terminal Block devices into a Control4 panel (C4-DIN-5PAN or C4-DIN-2PAN), install the panel. See the *5-Slot and 2-Slot Panels Installation Guide* for details
- Installed adjacent to 8-Channel Dimmer, 8-Channel Relay, 8-Channel 0-10V Dimmer, Bus Power Supply, or 8-Port Ethernet Switch modules.

WARNING! Remove power to all circuits entering the panel before installing the Terminal Blocks by locking all appropriate circuit breakers in the OFF position.

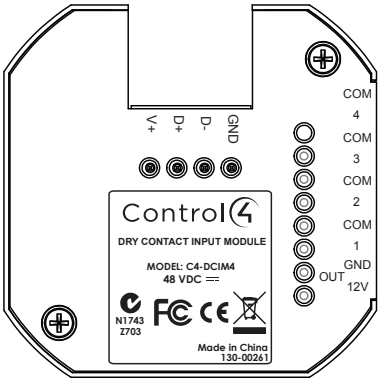
For full installation instructions and warnings, see the *Terminal Block Wiring Guide* and *Terminal Block Installation Guide*.

Specifications

	Control4® 8-Channel Dimmer Terminal Block	Control4® 8-Channel Relay Terminal Block	Control4® Power/Override Terminal Block
Model Number	C4-DIN-TB-8DIM	C4-DIN-TB-8REL	C4-DIN-TB-PO
Supported Devices	8-Channel Dimmer (C4-DIN-8DIM-E)	8-Channel Relay (C4-DIN-8REL-E)	8-Port Ethernet Switch (C4-DIN-8ESW-E), Bus Power Supply (48V) (C4-DIN-BPS48 or C4-BPS48), and 8-Channel 0-10V Dimmer (C4-DIN-8TV-E)
Full Length/Half Length	Full	Full	Half
Dimensions (H × W × D)	8.7″ × 1.7″ × 1.8″ (222 mm × 43 mm × 45 mm)	8.7″ × 1.7″ × 1.8″ (222 mm × 43 mm × 45 mm)	3.8″ × 1.7″ × 1.8″ (97 mm × 43 mm × 45 mm)
Weight	0.7 lb (0.32 kg)	0.8 lb (0.36 kg)	0.2 lb (0.09 kg)
Shipping Weight	0.8 lb (0.36 kg)	0.9 lb (0.41 kg)	0.3 lb (0.13 kg)

Control4 4-Channel Bus Dry Contact Input Module

(C4-DCIM4)



The 4-Channel Bus Dry Contact Input Module allows up to four toggle switches or other dry contact closures to trigger lights, scenes, or any other automation event in a Control4 system.

Product features

- Provides the ability to integrate period-specific, geographic-specific, or special designer switches into a Control4 system
- Small form factor allows it to fit in a wallbox with a standard light switch.
- Supplies a 12V, 50mA output capable of powering a motion sensor or other low-voltage device.
- Fits in standard US, UK or EU style wallboxes.

Included

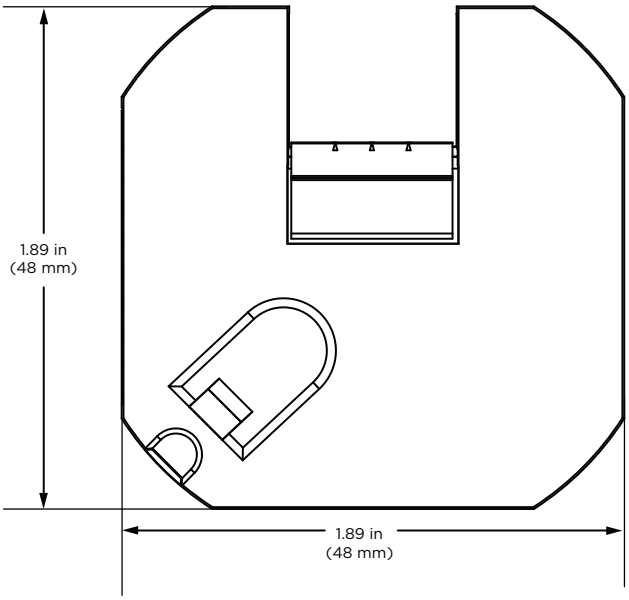
- Dry Contact Input Module
- Warranty card

Installation notes

- Powers via the C4-DIN-BPS48 or C4-BPS48 power supply.
- Requires the C4-DIN-BEG Bus Ethernet Gateway to communicate with the Control4 system.
- Follow **all** instructions in the installation guide.

For full installation instructions and warnings, see the *4-Channel Bus Dry Contact Input Module Installation Guide*.

FRONT



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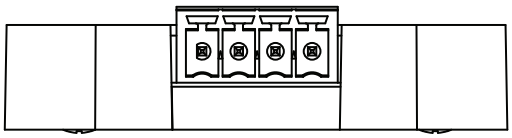

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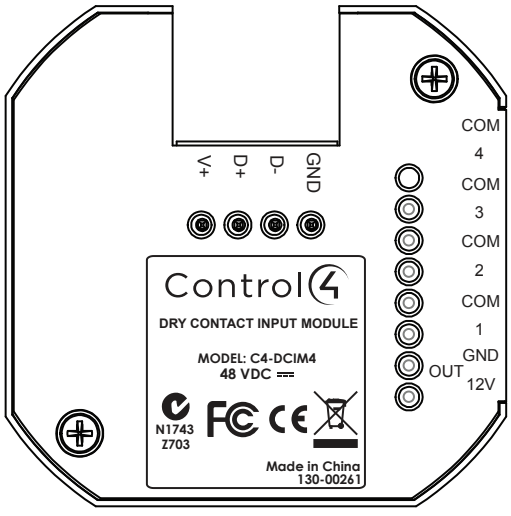

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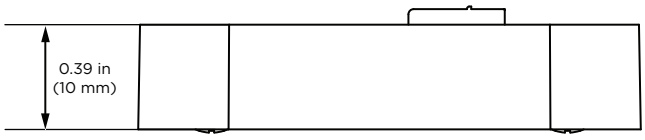

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Specifications

Model Number	C4-DCIM4 4-Channel Bus Dry Contact Input Module
Power Requirements	48VDC
Power output	12VDC, 50mA
Power consumption	0.15mW
Environmental	
Operational Temperature	0˚C - 40˚C (32˚F - 104˚F)
Humidity	5% to 95% non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Miscellaneous	
Control communications	RS-485
Weight	0.05 lb. (0.022 kg)
Shipping Weight	0.13 lb. (0.06 kg)
Dimensions	1.9" × 1.9" × 0.4" (48.3 mm × 48.3 mm × 10.2 mm)

IMPORTANT NOTE: Requires Bus Ethernet Gateway (C4-DIN-BEG) and Bus Power Supply (C4-DIN-BPS48 or C4-BPS48)

Appendix

Lighting project checklist

The checklist on the following pages is intended to be a guide for progressing through the stages of a Control4 lighting project. It's important to note that not every checklist item or list of suggested attendees will be applicable for every project, as each installation is unique. However, this checklist helps ensure that no important steps are missed along the way, assisting in overall project success. It is assumed that the Control4 dealer has begun the client sales process prior to beginning the first project stage.

1 Definition

Roles/Responsibilities

Initial Meeting:

- ☐ Team: Client, Architect, Interior & Lighting Designer,
- ☐ General Contractor
- ☐ Initial Meeting of all decision makers and influencers
- ☐ Establish working relationships—roles and responsibilities for each party
- ☐ Determine key project milestones
- ☐ Determine decision making process
- ☐ Document the assumptions of the project

Input Criteria:

- ☐ Is the Client ready to move ahead with Panelized or wireless lighting from C4?

Key Deliverables:

- ☐ Decision on Panelized or wireless lighting or hybrid

2 Planning

Review Project Scope

Initial review of plans:

- ☐ Team: Architect, Lighting Designer, Electrician
- ☐ Review luminary and bulb selection plans by room
- ☐ Focus on loads that are 0-10V, CFL or LED or have the possibility of these in the future
- ☐ Review customer's need for keypads and faceplate colors/ finishes
- ☐ Review detailed milestones for project and key action items

Input Criteria:

- ☐ Roles and Responsibilities are clear; sub-team has authority to move forward
- ☐ Residential/commercial site electronic floor plans all project elements identified: location(s), load types, ratings, utility rooms, etc...

Key Deliverables:

- ☐ Key decision makers all have same understanding of the project
- ☐ Provide budgetary quote for C4 lighting solution to key decision maker
- ☐ Give C4 Reference Design Guidelines to electrician selected

Project Planning

Review revised plans:

- ☐ Team: (Ideally) Architect, Lighting Designer, Electrician
- ☐ Walk decision makers through the lighting proposal
- ☐ Review load types
- ☐ Finalize keypad locations
- ☐ C4 dealer reviews luminary and bulb types to the C4 approved list of compatibility

Input Criteria:

- ☐ Team members are working together on a solution
- ☐ Client conditional approval of Budgetary quote for C4

Key Deliverables:

- ☐ Ship sample luminaries (compatibility concerns) to C4 for load testing

3 Design

Project Design

Initial lighting design:

- ☐ Team: (Ideally) Architect, Lighting Designer, Electrician
- ☐ C4 dealer creates initial lighting project design and reports
- ☐ OPTIONAL: Submit project to C4 Lighting Design Service
- ☐ C4 Dealer and Electrician walk property with design and clarify implementation
- ☐ Team determines preliminary list of lighting scenes per room/floor

Input Criteria:

- ☐ Feedback from C4 on load characterization
- ☐ Cost estimate including C4 gear, C4 dealer labor and electrician costs

Key Deliverables:

- ☐ Parties have an on what needs to be done and that all costs are covered between the team members
- ☐ Revise the C4 lighting cost estimate in a detailed quotation
- ☐ Checklists completed for each activity above

4 Client Approval

Project Approval

Final lighting design:

- ☐ Team: Client, Architect, Interior & Lighting Designer, Electrician
- ☐ Review implementation
- ☐ Lighting solutions including: load schedule, keypad color/ finish, keycaps and lighting scenes, keypad engraving report, etc...
- ☐ C4 dealer reviews all costs and charges anticipated
- ☐ Client change order form (COF) presented to Client
- ☐ A COF will be used anytime the client, interior, and/or lighting designer which impacts the approved Lighting design

Input Criteria:

- ☐ Final lighting design from the Team

Key Deliverables:

- ☐ Team approval documents
- ☐ Approvals from the Team to move forward with the lighting design and cost estimate
- ☐ Client pre-payment for services and products
- ☐ C4 dealer orders the panelized cabinet(s) & terminal blocks
- ☐ C4 dealer presents client with keypad engraving report for their approval

5 Rough-In

Project Rough-In

Rough-in:

- ☐ Team: Electrician, Architect, Interior & Lighting Designer
- ☐ Electrician performs rough-in of wiring, panelized cabinets & per agreed upon architecture
- ☐ Design topology agreed to by C4 dealer
- ☐ Installation conforms to C4 Reference Guide for Electricians, local and national codes
- ☐ Dealer performs low-voltage rough-in wiring for wired keypads

Input Criteria:

- ☐ C4 dealer completes initial system design in Control4 Composer and provides panel, module, & load reports to electrician

Key Deliverables:

- ☐ C4 dealer provides panelized cabinets & terminal blocks to electrician for installation
- ☐ C4 dealer orders load control modules and/or devices

6 Device Install

Device Install

Installation:

- ☐ Team: Electrician

Who does this? Installation of modules or individual distributed load control devices and keypads in each room as agreed upon by roles

Electrician installs:

- ☐ AUX override switch(es) per plan
- ☐ Initializes panelized lighting modules with on-device configuration
- ☐ Installs all luminaries and bulbs into each load. All loads should function, but not necessarily dim

C4 dealer installs:

- ☐ Low-voltage wired or wireless keypads

Input Criteria:

- ☐ Quality Control (QC) of installation

Key Deliverables:

- ☐ Basic Lighting control is functional
- ☐ C4 dealer provides modules and/or devices

7 System Program

Programming

System programming:

C4 dealer installs according to the reference design:

- ☐ HC based controller
- ☐ C4 approved router
- ☐ C4 approved switch

C4 dealer will:

- ☐ Program and configure the lighting system
- ☐ Identify devices into the system including load modules/devices and keypads
- ☐ Create standard lighting scenes based upon final approval
- ☐ Adjust parameters of lighting controls including: cold start, preset levels, max level
- ☐ Verify proper dimming mode on each load: FWD/REV
- ☐ Verify proper dimming of all loads

Input Criteria:

- ☐ All lighting loads are connected and operational
- ☐ Electrician should temporarily label all loads

Key Deliverables:

- ☐ A fully functional lighting system

8 Review

Review with Team

Implementation review:

- ☐ Team (min): Architect, Lighting Designer, Electrician
- ☐ Review luminary and bulb selection and lighting scenes in each room
- ☐ Review use of keypads and recommend keycap assignment (custom engraving for each keypad)

Input Criteria:

- ☐ Lighting system is fully functional and programmed
- ☐ Luminaries and bulbs are installed per design

Key Deliverables:

- ☐ Team members agree this meets objectives of the project and client review can be scheduled

9 Client Walk-thru

Client Walk-thru

Final implementation:

- ☐ Team (min): Client, General Contractor or other decision makers
- ☐ Final walk thru of lighting solution by load, by room

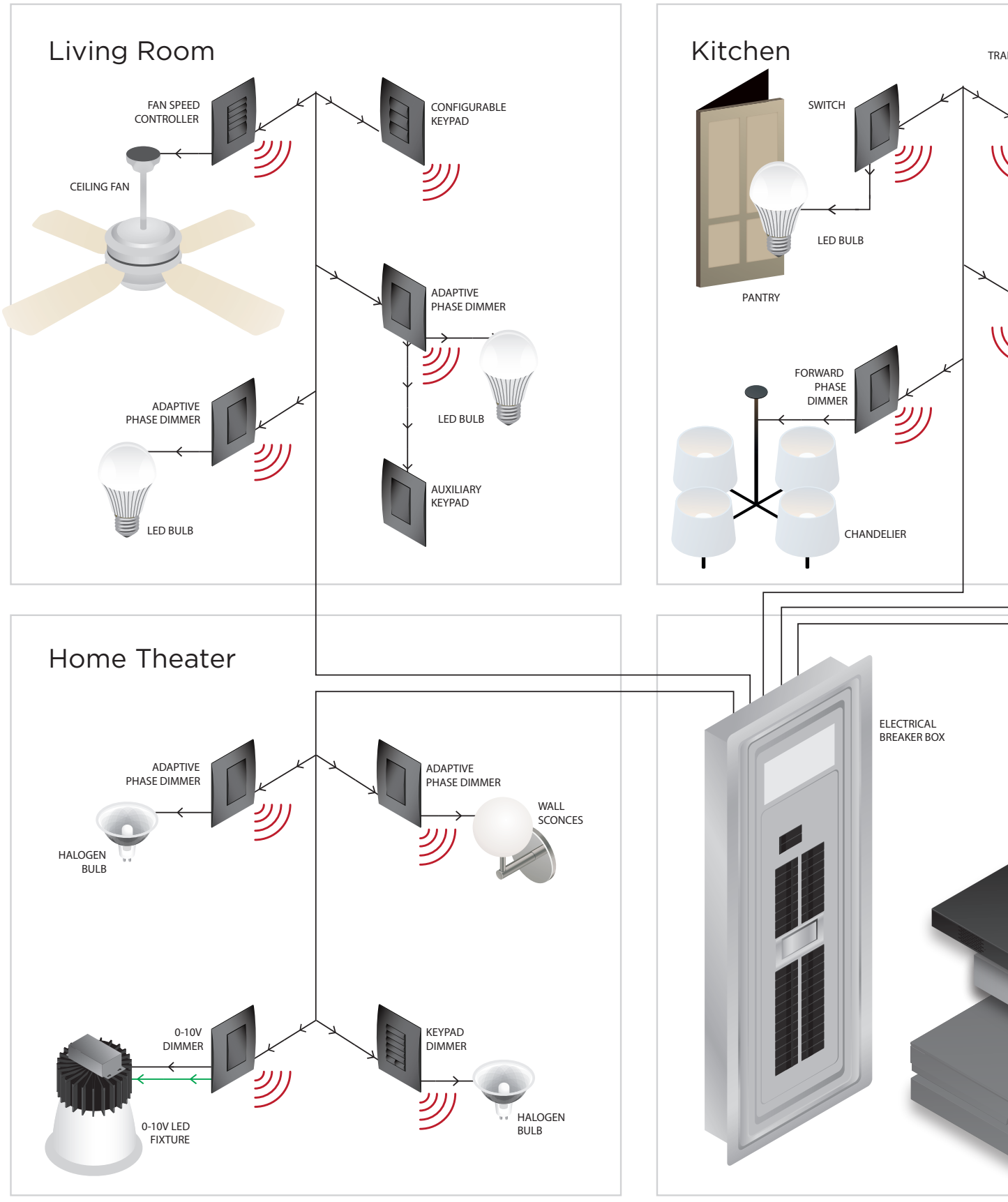
Input Criteria:

- ☐ Client approval of load/keypad color and finish for keycaps and faceplates
- ☐ Receipt of keycaps from C4

Key Deliverables:

- ☐ Final approval of lighting solution including: load/keypad color/finish, lighting scenes, lighting control
- ☐ Completed Lighting solutions binder including:
  - ☐ Keypad programming report
  - ☐ System user manuals
- ☐ Accounting for:
  - ☐ Prompt, detailed of all costs
  - ☐ Variances between initial estimate
  - ☐ Customer change orders

Wireless Lighting



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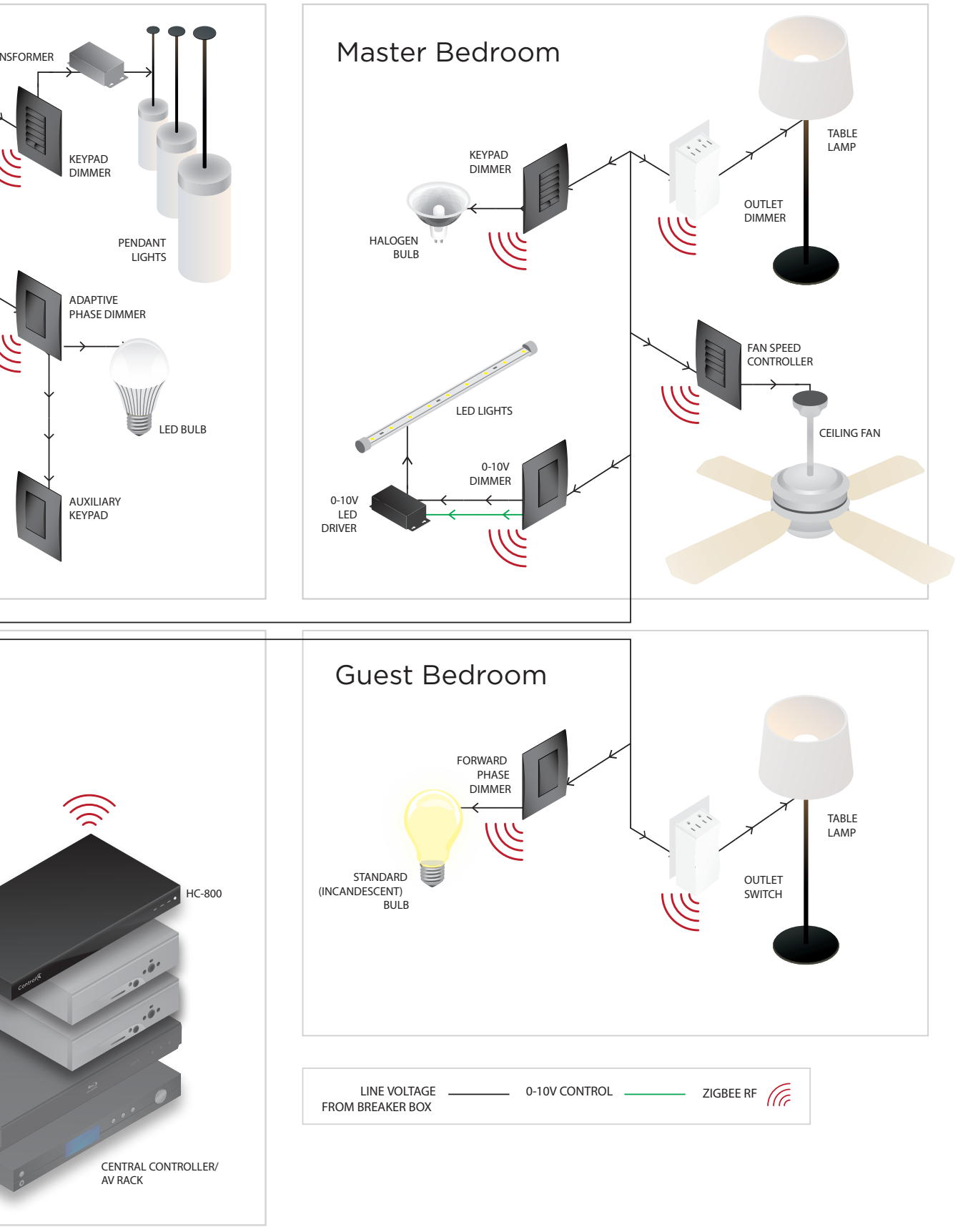
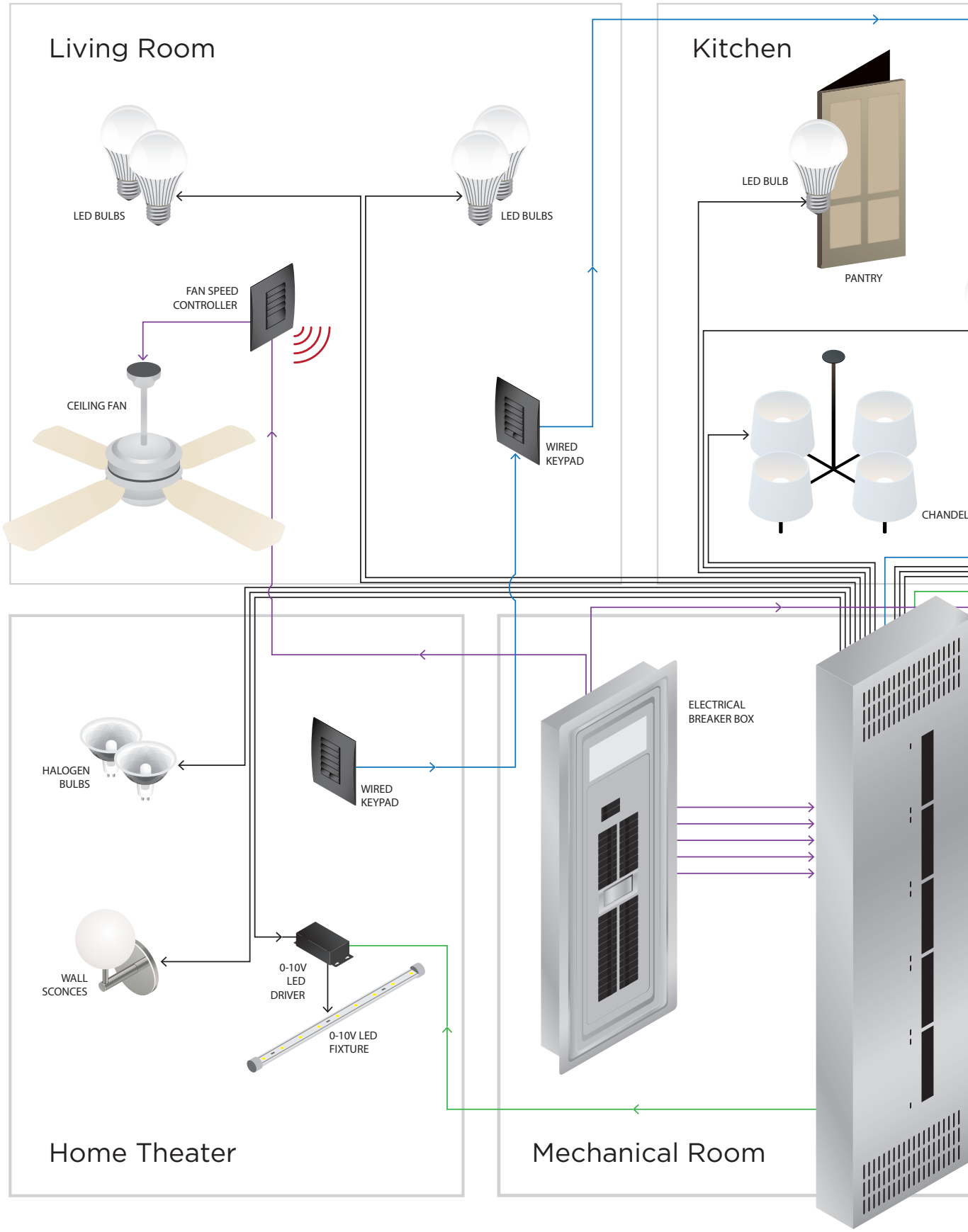


Panelized Lighting



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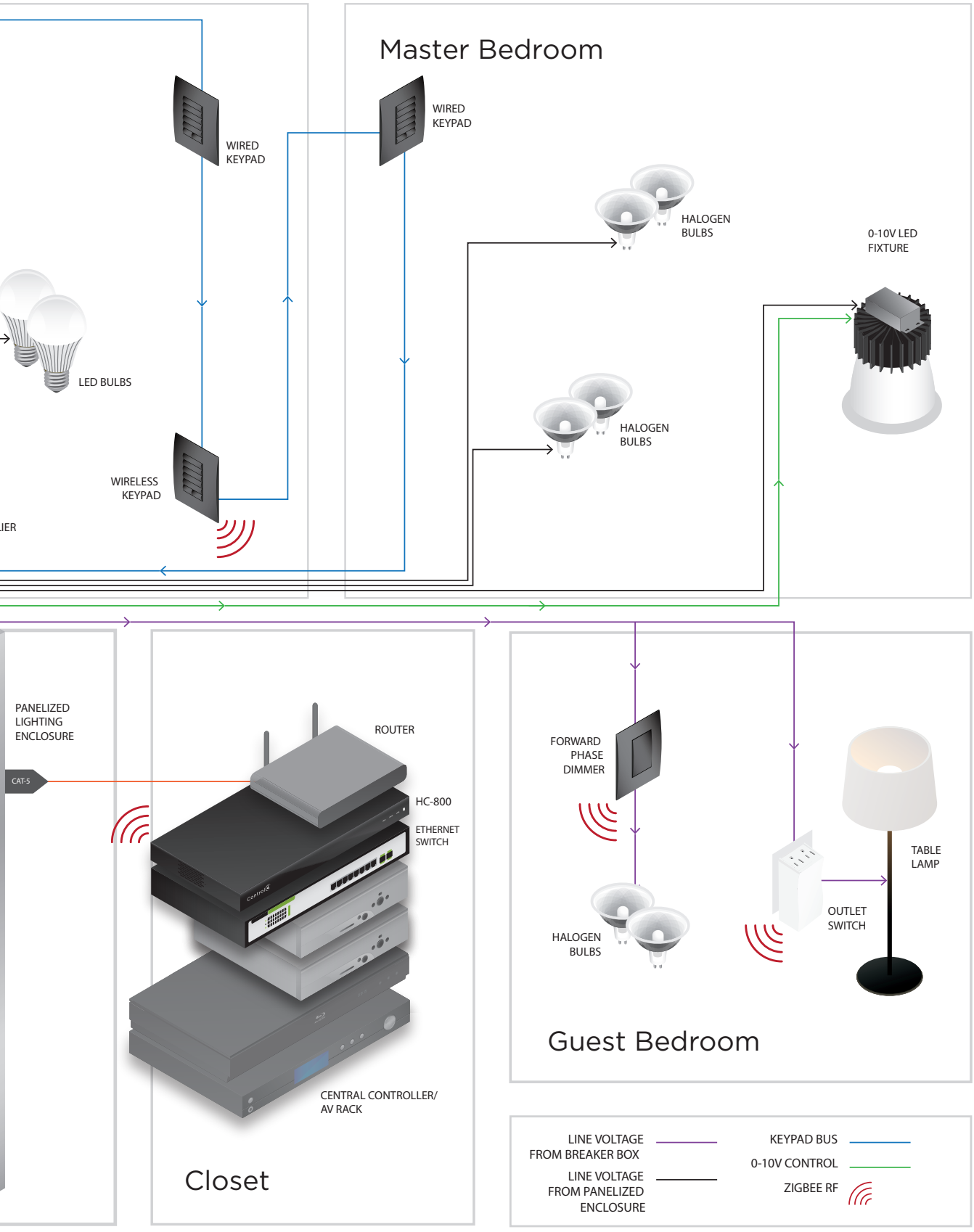

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