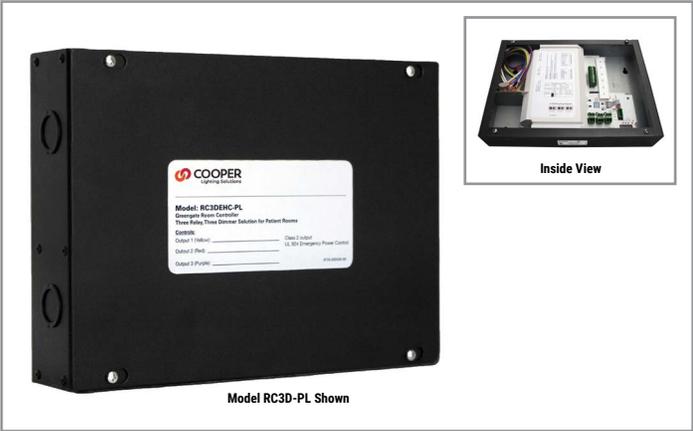


| | | | | | |
|-------------|--|-----------|--|------|--|
| Project | | Catalog # | | Type | |
| Prepared by | | Notes | | Date | |



Greengate

Room Controller

Provides code compliant automatic lighting, emergency and plug load control

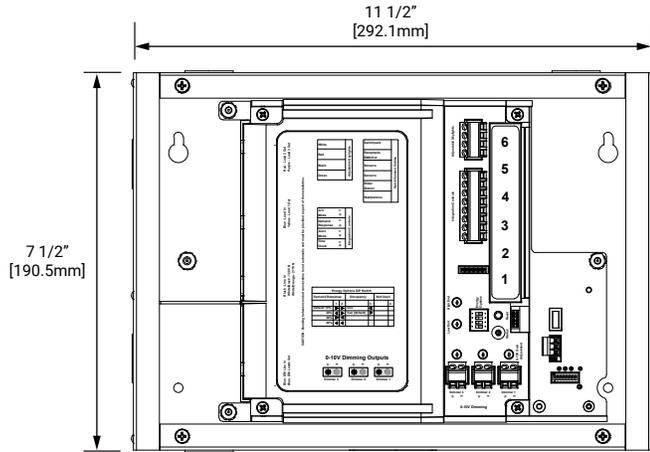
- Interactive Menu**
- Order Information page 2
 - Additional Resources page 2
 - Wiring Diagrams page 4
 - Connected Systems page 4
 - Product Warranty



Top Product Features

- The system includes three relays and up to three 0-10 VDC dimming outputs to control compatible dimmable ballasts. Providing a code compliant automatic lighting, emergency and plug load control out-of-the-box when connected to Room Controller low voltage devices. Network up to 254 ControlKeeper and Room Controller Network panels.
- Click & Go ready, RJ45 connections
- Preconfigured for automatic functionality upon power-up
- Manual or Automatic On, bi-level, tri-level and dimming control strategies
- Integral Demand Response input with four levels of preconfigured energy reduction
- Built in tubular lighting control with preconfigured wallstation controls

Dimensional and Mounting Details



additional product diagrams

Order Information

Catalog Number

| Catalog Number | Description | Voltage | Ballast/Incandescent |
|----------------|---|----------------------|---------------------------|
| RC3-PL | 3 Relays, Plenum | 120-277 VAC, 50/60Hz | Maximum Combined Load 20A |
| RC3D-PL | 3 Relays, 3 0-10V dimming, Plenum | 120-277 VAC, 50/60Hz | Maximum Combined Load 20A |
| RC3DE-PL | 3 Relays, 3 0-10V dimming, UL 924, Plenum | 120-277 VAC, 50/60Hz | Maximum Combined Load 20A |
| RC3DEHC-PL | 3 Relays, 3 0-10V dimming, UL 924 for healthcare, Plenum | 120-277 VAC, 50/60Hz | Maximum Combined Load 20A |
| RC3D-PL-CP | 3 Relays, 3 0-10V dimming, Chicago Plenum Room Controller | 120-277 VAC, 50/60Hz | Maximum Combined Load 20A |
| RC3DE-PL-CP | 3 Relays, 3 0-10V dimming, UL924, Chicago Plenum Room Controller | 120-277 VAC, 50/60Hz | Maximum Combined Load 20A |
| RC3DE-PL-CP | 3 Relays, 3 0-10V dimming, UL924 for healthcare, Chicago Plenum Room Controller | 120-277 VAC, 50/60Hz | Maximum Combined Load 20A |

Additional Options

Catalog Number

| Catalog | Description |
|---------------|--|
| GGRC-COUPLER | RJ45 Coupler |
| GGRC-SPLITTER | RJ45 Splitter |
| GGRJ45-006-G | RJ45 cables 6 inches |
| GGRJ45-03-G | RJ45 cables 3 feet |
| GGRJ45-10-G | RJ45 cables 10 feet |
| GGRJ45-25-G | RJ45 cables 25 feet |
| GGRJ45-50-G | RJ45 cables 50 feet |
| GGRJ45-100-G | RJ45 cables 100 feet |
| GGRJ45-10P-G | RJ45 cables 10 feet plenum rated |
| GGRJ45-25P-G | RJ45 cables 25 feet plenum rated |
| GGRJ45-50P-G | RJ45 cables 50 feet plenum rated |
| GGRJ45-100P-G | RJ45 cables 100 feet plenum rated |
| Note | Please refer to the Room Controller page on our website for more information |

Product Specifications

Mechanical

Size: 11 1/2" W x 7 1/2" H x 2 1/4" D (292.1mm x 190.5mm x 57.15mm)

Environment:

- **Operating temperature:** 32°F to 104°F (0°C to 40°C)
- For indoor use only

Electrical**Input Requirements:**

- 120-277 VAC 50/60Hz
- Maximum 20A combined load per Room Controller

Ballast load: 20A @ 120/277 VAC (LED)

Incandescent load: 15A @ 120 VAC

Motor load: 1HP @ 120 VAC

LED Drivers: Requires isolated LED drivers for optimal performance

LED, Ballast or Incandescent Load: 3A

Class 2 Dimming Output:

- 0-10 VDC, sinks up to 100mA per (40 µA max per circuit leakage to line)
- Each 0-10V output supports up to 50 ballasts / drivers that draw the standard 2mA each

Emergency Output (RC3DE/RC3DEHC only): UL 924

Installation: Install in accordance with National Electrical Code and any other codes that may apply

Standards/Ratings

- UL Approved
- UL 508 Listed
- UL 924 Listed
- cULus Listed

Warranty

Five year warranty standard

Overview

The Room Controllers are connected to a 120 VAC through 277 VAC 20 Amp circuit to provide unit power and input power to the individual relays. The wallstations, occupancy sensors, daylight sensors and receptacle control devices connect via QuickConnect cables (ordered separately) providing a Class 2 connection. Upon power up the pre-engraved wallstation automatically controls the On/Off relays adjust the dimming outputs. The daylight sensor will immediately adjust the lighting levels based on natural light.

The line voltage section of the Room Controller provides the installing contractor space to make all line voltage connections and direct conduit access, reducing the need for additional junction boxes, while providing easy access to line voltage circuits. Low voltage devices are connected using Cat5 cables (ordered separately).

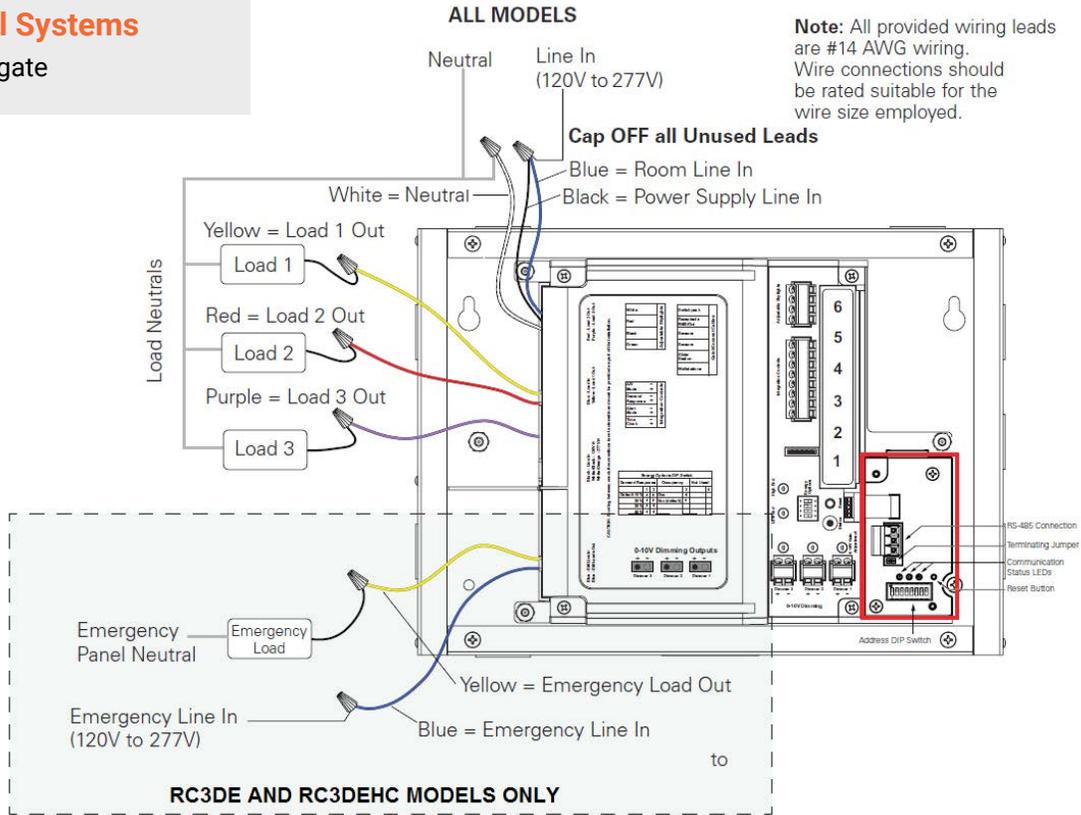
UL 924 relay is provided on some units for automatic emergency lighting control. The UL 924 relay automatically tracks with output 1 and can be connected to any of the three 0-10V dimmers. The UL 924 relay automatically closes and disconnects the 0-10V control open loss of normal power providing adequate egress lighting control. Ladderless maintenance testing of the UL 924 relay can be achieved by pressing the ALL OFF button four times.

Wiring Diagrams

Sample Wiring Diagram

Control Systems

- Greengate



Room Connections

