GreenMAX™ DRC 2 Port Analog Interface

Cat. No. DRID0-C02, DRID0-CB2

WARNINGS:

- **TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!**
- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are unsure about any part of these instructions, consult an electrician.

CAUTIONS:

- Use this device with **copper or copper clad wire only.**
- For indoor applications only.
- Save these instructions.

PK-A3289-10-00-0D

INSTALLATION INSTRUCTIONS **ENGLISH**

Introduction

The GreenMAX DRC Low Voltage Analog Interface (AI) is designed to accept input from low voltage sources like occupancy sensors, switches, photocells, and other related systems, and to interface to other external systems via low voltage input.

WARNING: TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER at circuit breaker or fuse and test that power is off before wiring

Before Installation

Consider the items noted below:

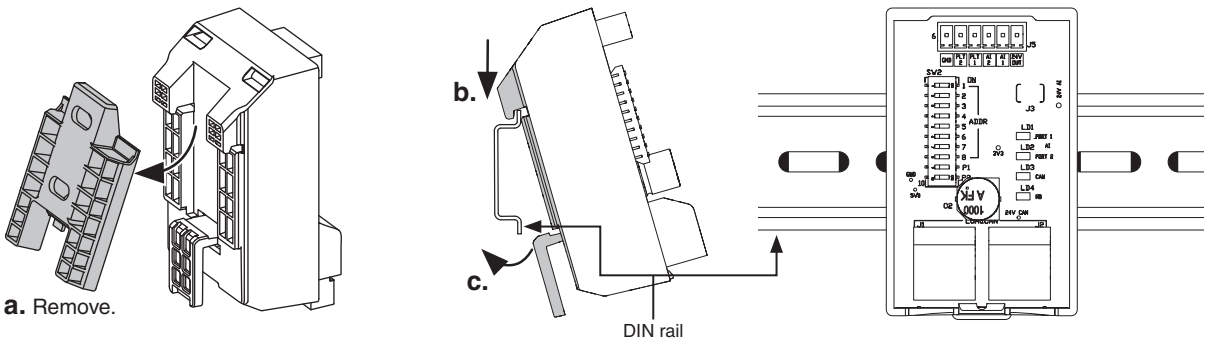
- Surface mounting is possible using the provided surface mount adapter. The adapter, if lost, can be purchased using part number DRID0-EAR.
- For jurisdictions where all Class 2 wiring must be in conduit or if the device must be in a metal enclosure, surface mounting is not appropriate.
- For compliance with Chicago plenum requirements, installation in metal box is required.

DRID0-C02 Installation Options

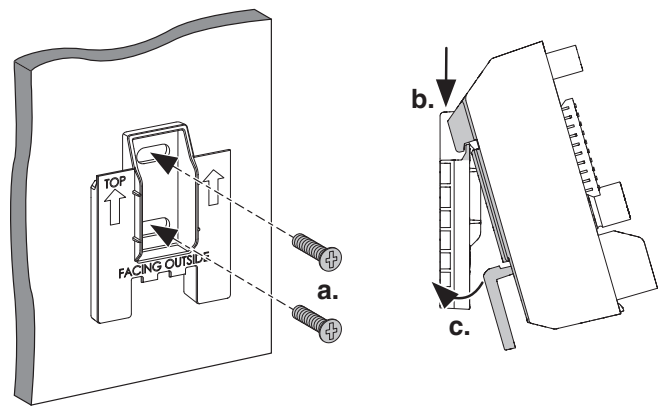
Mount with one of the following methods:

DIN Rail Mounting

NOTE: Only remove preinstalled terminator if you are required to connect two LumaCAN cables.



Surface Mounting

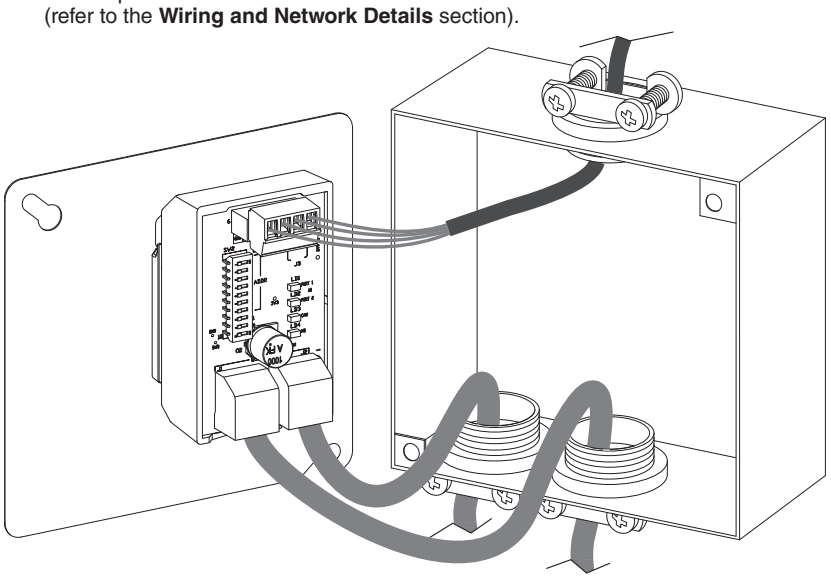


DRID0-CB2 Installation

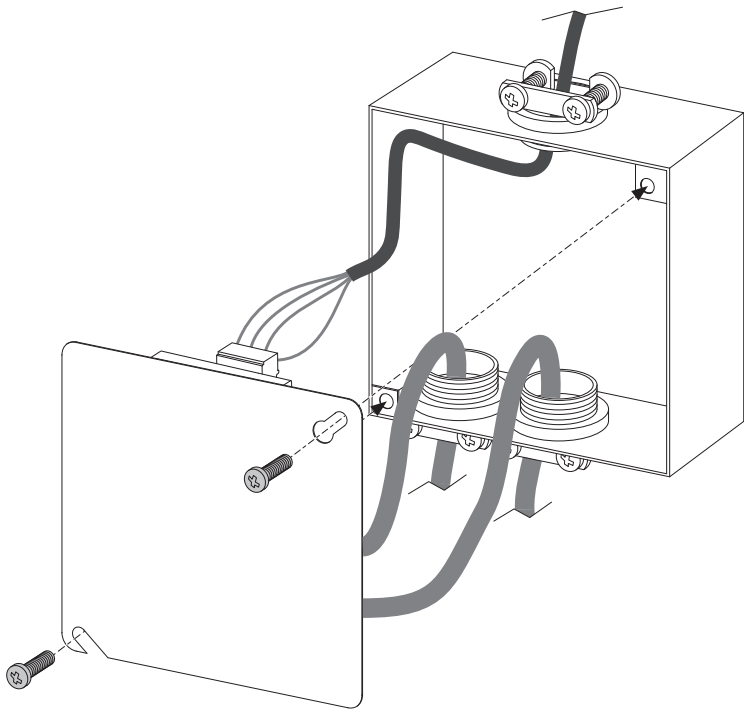
Install into a 4-11/16 in. electrical junction box.

NOTE: Electrical junction box must have a depth of 2 in. or greater.

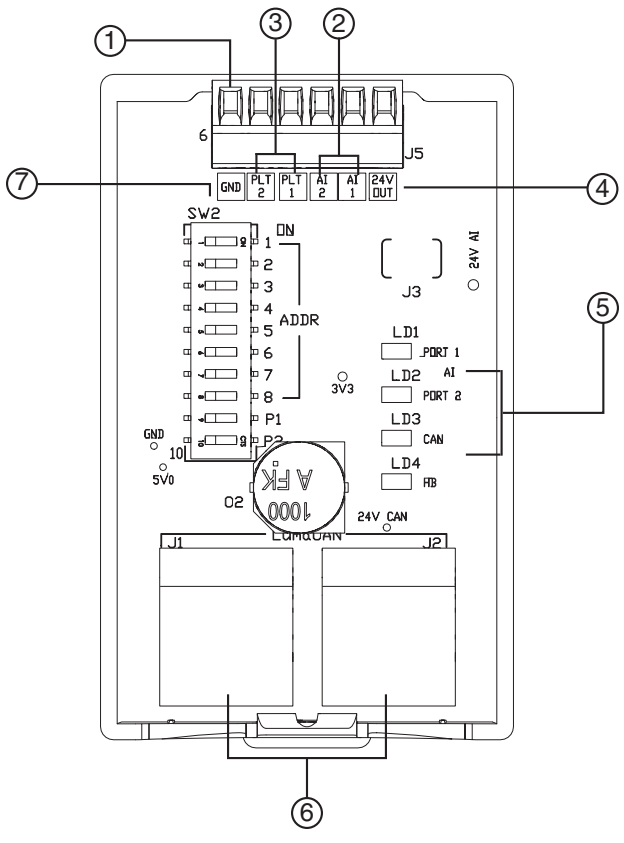
a. Feed wires through knockouts and wire device.
Set unique LumaCAN network address.
(refer to the **Wiring and Network Details** section).



b. Mount plate to junction box.



Interface



1. **COM** = COM
2. **AI1 & AI2** = Analog Input
   - 0.5-24VDC at 10 bit resolution for analog inputs.
   - 0.5-10VDC for use with a photocell.
   - +24V/Open for external contact closure as you would use with a switch or a photocell contact closure. May be used with a momentary or maintained device.
3. **PLT1 & PLT2** = Pilot Light. Can be used to connect to external LED. These terminals are the “common” side of the indicator. Max sink current is 100mA across both PLT1/2. Output is driven by the system controller but will also blink slowly when an invalid LumaCAN address is assigned.
4. **24V OUT** = Output voltage to devices. Actual voltage will be same as input passthrough from LumaCAN.
5. **STATUS LED** = Shows network status. The LEDs have the following functions:
   - AI1 = Solid Yellow when Analog Input #1 is Active (> 0.5V)
   - AI2 = Solid Yellow when Analog Input #2 is Active (> 0.5V)
   - AI1/AI2 = Blink rapidly when in bootloader mode.
   - AI1/AI2 = Blink slowly when a valid LumaCAN address is not assigned.
   - RX/TX = Solid Green when network connected. Blinks Green on network traffic.
   - All LEDs blink when overcurrent at the analog inputs have been detected by the device. User needs to remove the overcurrent condition to allow operation of the device.
6. **LumaCAN** = LumaCAN Network connections
7. **ADDR** = Used to set LumaCAN network address.

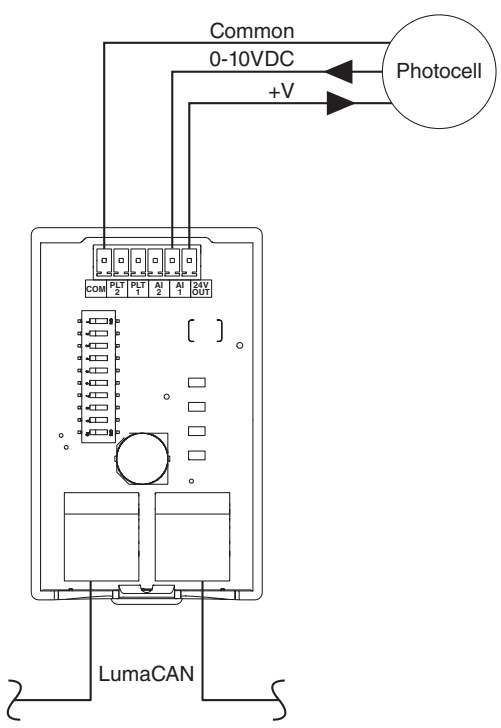
Wiring and Network Details

1. Wire the device and make all network connections. Some examples are shown, but your specific situation may warrant slightly different wiring. Refer to your submittal drawings or consult factory if you are unclear about connections means and methods.

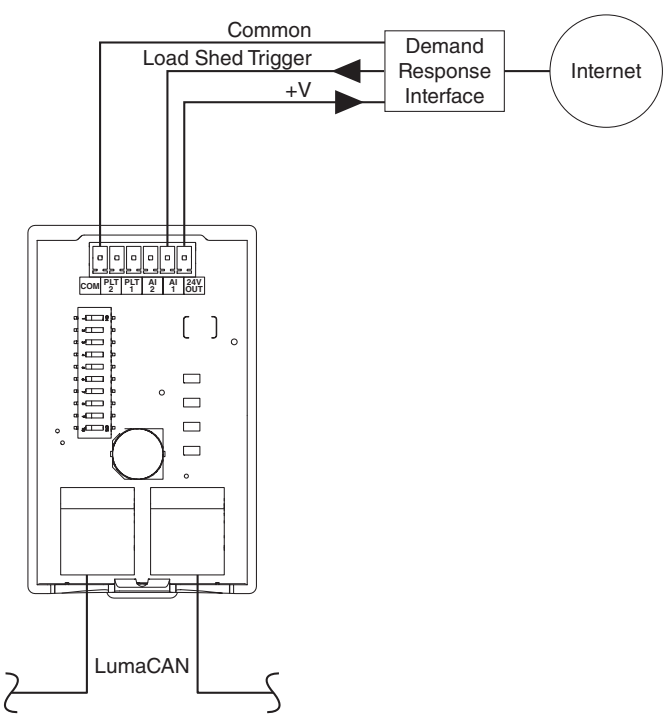
NOTES:

- Devices are powered from the LumaCAN™ network and power is passed through the AI + 24Vout/COM terminals. Ensure you have adequate power to power all devices before connecting to the network.
- LumaCAN network must be powered by Class 2 or LPS power supply and total network power may not exceed 1500mA per power segment.

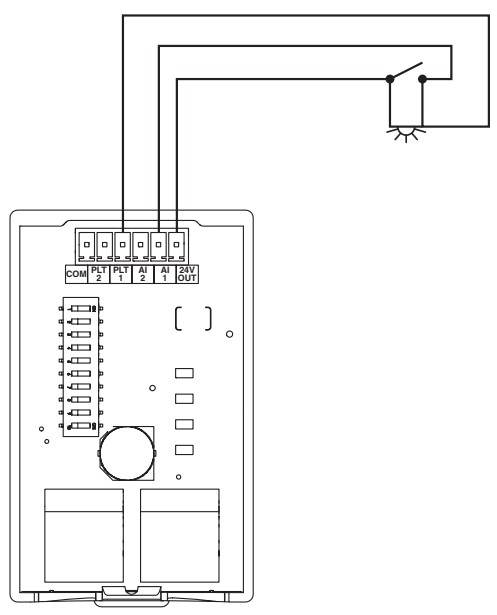
Wiring to a Single Photocell:



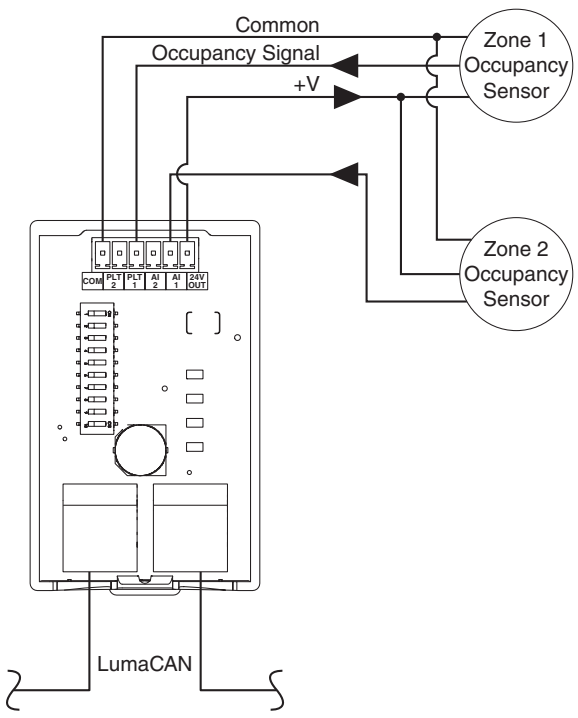
Wiring to a Demand Response Interface:



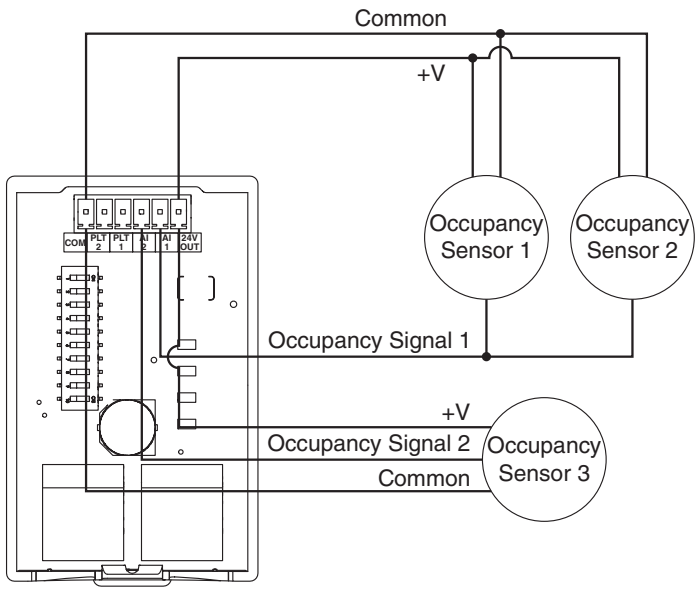
Wiring to Switch:



Wiring to (2) Occupancy Zones:



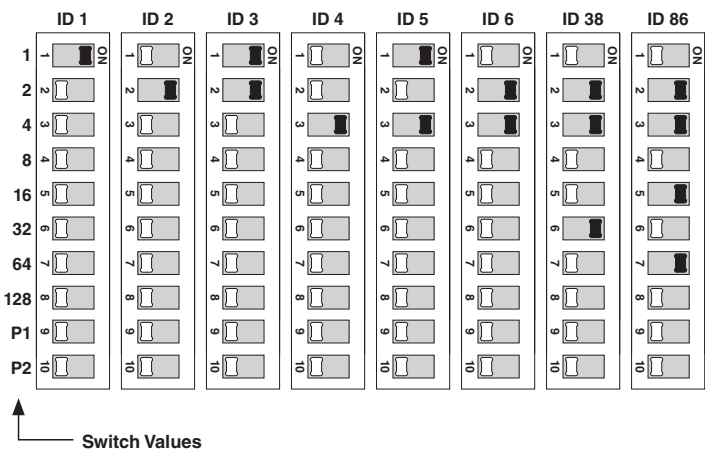
Wiring to (2) Occupancy Sensors Zone 1, (1) Sensor Zone 2:



2. Set unique LumaCAN network address (see DIP switch designations below).

- All devices on a LumaCAN network require a unique address. This device supports Auto-Addressing which is the preferred method of address assignment.
- A GreenMAX DRC Room Controller will assign a unique address to all devices on the network.
- For Auto-addressing to work, all dip switches must be set to OFF.
- Both AI1/AI2 LED's will blink when the devices has no address, and, will stop blinking when a valid address is assigned.
- If you prefer to set an address manually, please use the dip switches to assign a fixed address.

ID Address Value = Sum of Switch Values
ID 86 = 2+4+16+64



3. Program the analogue interface using a GreenMAX DRC room controller through the GreenMAX DRC System app.

Specifications	
Catalog Nos.	DRID0-C02, DRID0-CB2
Input Voltage/Frequency	+12-24VDC
Input Current	Powered from LumaCAN 45-22mA + Connected DC Load + Pilot Light Current
Output Voltage	Same as input voltage
Output Current	1.0A Max
IP Rating	00
Terminal Torque Rating, Low Voltage	1.8 lb-in
Network Connections	(2) RJ-45 Cat 6 or better for connection to LumaCAN network. Termination provided via local termination jumper.
Network Topology	• Daisy Chain, 1600 ft. max between repeaters. • Home-Run topology and network length up to 10,000 ft. can be achieved when using LumaCAN network repeaters (Leviton #NPRPT) • Maximum 110 nodes between repeaters • Maximum 250 nodes on a LumaCAN network
Operating Temperature	0-45°C
Storage Temperature	-10-70°C

FOR CANADA ONLY
For warranty information and/or product returns, residents of Canada should contact Leviton in writing at **Leviton Manufacturing of Canada ULC** to the **attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.**

LIMITED 5 YEAR WARRANTY
For Leviton's limited 5 year product warranty, go to www.leviton.com. For a printed copy of the warranty, call 1-800-824-3005.

For Technical Assistance Call: 1-800-824-3005 (USA Only) or 1-800-405-5320 (Canada Only) www.leviton.com