

Entría Elevator Controller Installation



External Document

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The Elevator Controller enables secure floor access control by integrating directly with elevator systems. It manages relay outputs to control floor selection, connects to access readers via Wiegand, and supports optional fire alarm integration. Installation includes mounting the enclosure, wiring power, connecting relay outputs to the elevator system (dry contact only), integrating Wiegand devices with external power, and verifying proper system operation.

Safety and Compliance

- Turn OFF power before starting
- Follow all local electrical codes and CellGate wiring standards.
- Verify voltage and polarity before powering the system.

Tools and Materials Required

- Wire strippers
- Screwdrivers or power drill (Phillips bits)
- Multimeter
- Extra Power Supply Needed for Weigands, readers and fire alarm



Instructions:

1. Choose Installation Location

- Install indoors in a secure, dry location
- Ensure:
 - Power outlet within ~5 ft
 - Access to elevator wiring
 - Space to open the enclosure fully
- Mount surface must be flat and strong



2. Mount the Enclosure

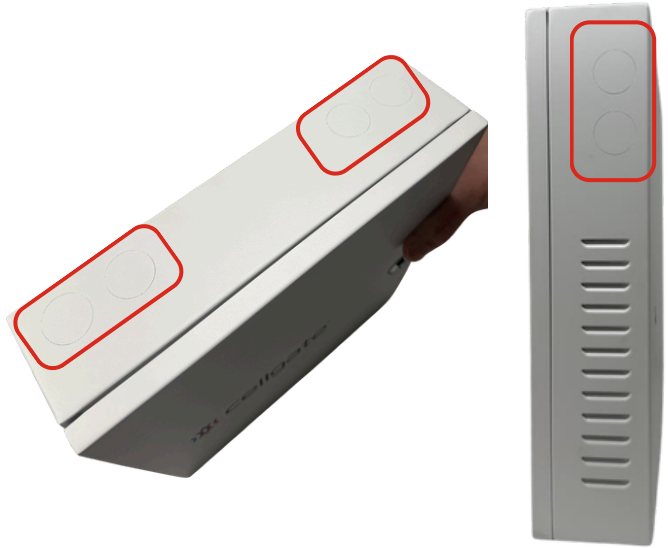
- Use the keyhole slots on the back
- Mark and drill mounting holes
- Install screws/anchors
- Hang enclosure and tighten until secure





3. Prepare Cable Entry

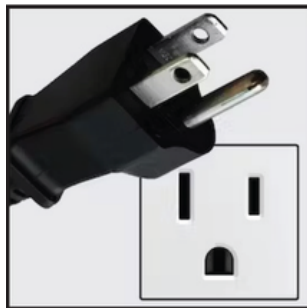
- Identify required cable types:
 - Power
 - Relay (elevator)
 - Wiegand (reader)
 - Fire alarm (optional)
 - Ethernet Cable
- Remove only needed knockouts
- Route cables cleanly (no tension)



4. Connect AC Power

- Plug in the power cable (do NOT turn ON yet)
- Route safely to outlet
- Leave power OFF until all wiring is done

Note: Install within ~5 feet of the outlet to avoid tension on the cord.



Recommended Backup Battery: To maintain system operation during power outages and protect against power fluctuations, CellGate recommends APC brand back-up batteries. Two options are the **APC 600VA (BE600M1)** or the **APC Back-UPS Pro 1500VA (BR1500MS2)**.

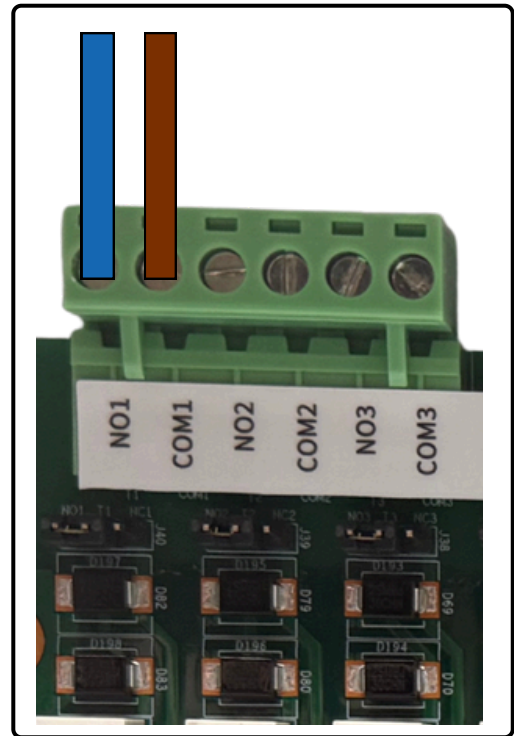


6.To Connect Relay Wiring

- Identify the required relay (COM and NO).
- Connect elevator wires to:
 - COM → one wire
 - NO → other wire
- Tighten all terminals securely.
- Ensure no exposed wires are touching.

Notes:

- Standard installation practice is to use 18 AWG jumper wire where applicable.
- Label relays for easy identification (e.g., Lobby, Floor 1, Basement).
- Use dry contact only (no voltage).



- Normally Open (NO): Available only when active
- Normally Closed (NC): Always available
 - Example use: Lobby or common area control



Normally Open

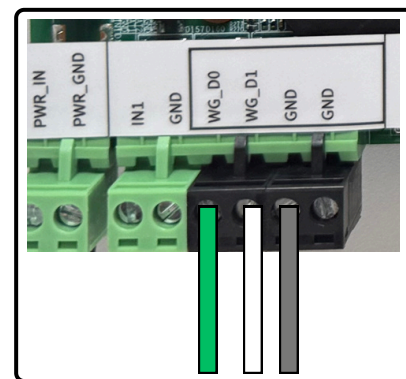


Normally Closed

7.Wiegand Wiring

Wiegand Reader

- Connect:
 - D0 → WG_D0
 - D1 → WG_D1
 - GND → GND
- Power the reader using an external power supply



Note:

- Wiegand readers require separate power (do not use controller power)
- Follow manufacturer wiring guidelines

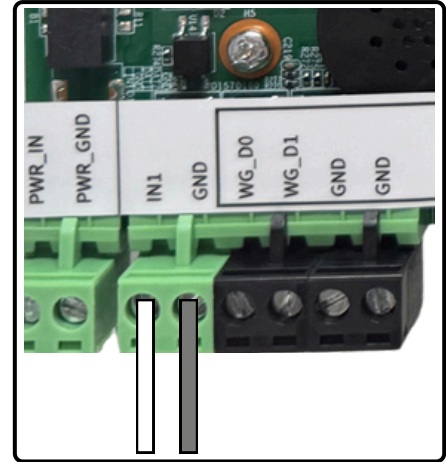


8. Fire Alarm Wiring (Optional)

- Locate the fire alarm input terminal (IN1 / GND)
- Connect the fire alarm circuit to these terminals
- Verify correct wiring per system design

Note:

- Use dry contact only (no voltage)
- For fire alarm use only (not general input)



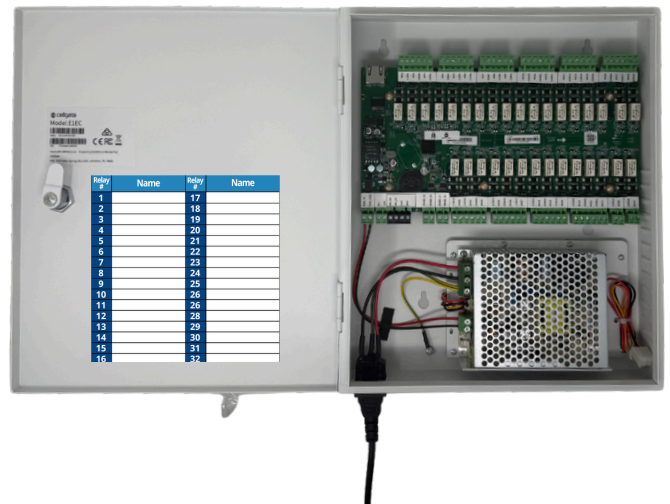
9. Check Jumpers and Terminal Connections

- Verify all required jumpers are installed
- Ensure no jumpers are missing or loose
- Replace any missing jumpers if needed
- Recheck all terminal connections before powering on

10. Apply Labels

- Use the label area on the enclosure lid
- Label each relay with its floor or function
- Ensure labels are clear and readable

Note: Proper labeling helps with installation and troubleshooting



Support Contact

- For technical assistance or questions, contact: CellGate Technical Support. (855 694 2837) Option 2

