

Home Automation Wiring

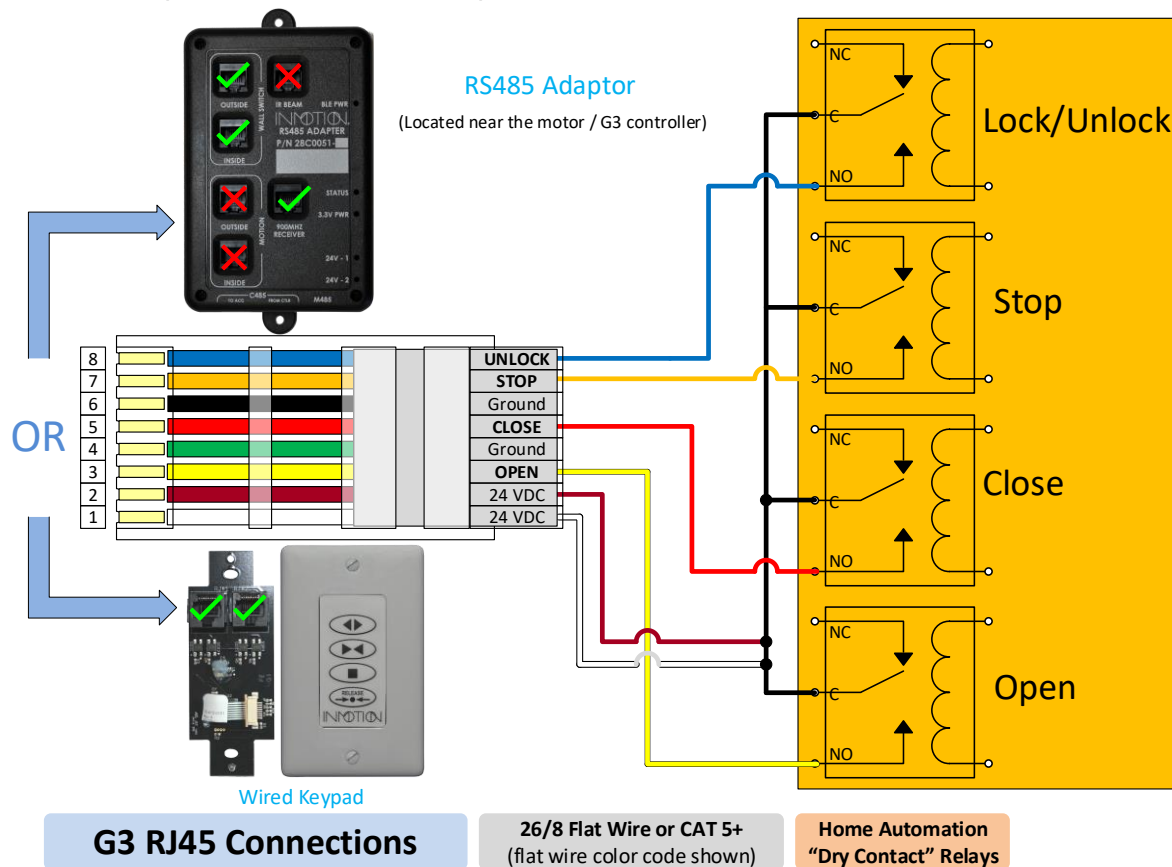
Part Number(s): 28C0007(G1), 28C0009(G1D), 28C0004(G2), 28C0016(G3)

G3 Controller (Wired Only)

The wired G3 controller will attach to a home automation system in the same manner as the G2 controller by using an available wired wall switch port.

The wireless version of the G3 controller does NOT support home automation connections without the required “RS485 GPIO Adapter” and cable which is included with the wired G3 kit.

1. Refer to the G2 home automation instructions for cable wiring and routing.
2. Make sure the RJ45 end home automation wire created is routed to the location of the RS485 GPIO Adapter OR to a wall switch location with an available RJ45 port. The RS485 Adapter will be located near the motor.
3. Connect the home automation RJ45 cable into an available wall switch port, or one of the indicated ports on the RS485 Adapter.



Home Automation Wiring

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G2 Controller

The G2 controller will attach to home automation systems that support “dry contract” relays. The connection to the door controller is made through the keypad circuit and connects using flat wire and RJ45 connectors.



1. Determine the location of the Home Automation attachment point, either at the door controller itself OR at the end of keypad circuit.

2. Route an appropriate length of 26/8 flat wire to the attachment point. If one end of the cable is already terminated with an RJ45 connector, make sure it is located at the attachment point. **Standard network wire should NOT be used!**

3. If needed, terminate the attachment cable with an RJ45 connector according to the wiring diagram. The “White” wire must be crimped to the “pin 1” side of the RJ45 termination.

4. **Use a RJ45 network cable checker to verify the cable lines are NOT shorted in any way.**

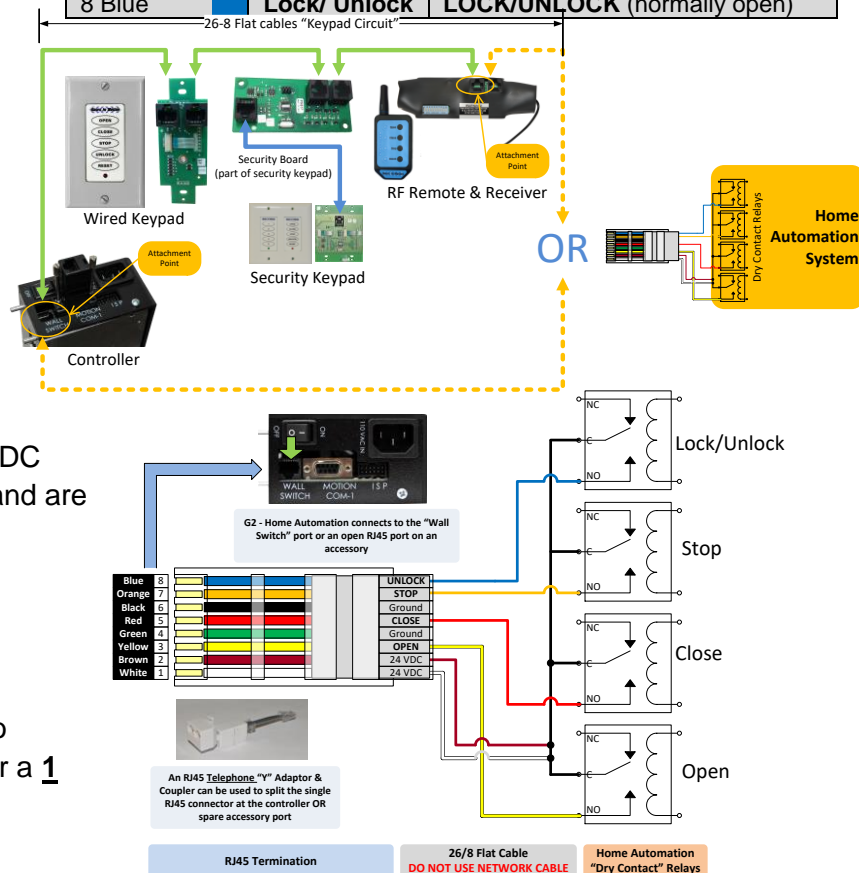
5. Wire the Home Automation system relays so that the 24VDC on pins 1 or 2 can be switched to the appropriate control lines for the desired door functions.

- a. Pins 1 & 2, White & Brown provide 24VDC
Pins 4 & 6, Green & Black are ground and are not used.
- b. Pin 3, Yellow wire for **OPEN**
- c. Pin 5, Red wire for **CLOSE**
- d. Pin 7, Orange wire is for **STOP**
- e. Pin 8, Blue wire for **LOCK** or **UNLOCK**

6. Configure the Home Automation system to engage the required door function relay for a **1 second closure**, the relay then **MUST** be released (open).

7. Test the Home Automation system with the automated door.

RJ45 / Flat Wire Colors	Command	24VDC “Dry Contact” Command
1 White		24VDC (common)
2 Brown		24VDC (common)
3 Yellow	Open	OPEN (normally open)
4 Green		Ground
5 Red	Close	CLOSE (normally open)
6 Black		Ground
7 Orange	Stop	STOP (normally open)
8 Blue	Lock/ Unlock	LOCK/UNLOCK (normally open)



G2 Controller

“Dry Contact” Relay Rating: 25mA @ 24VDC

Home Automation Wiring

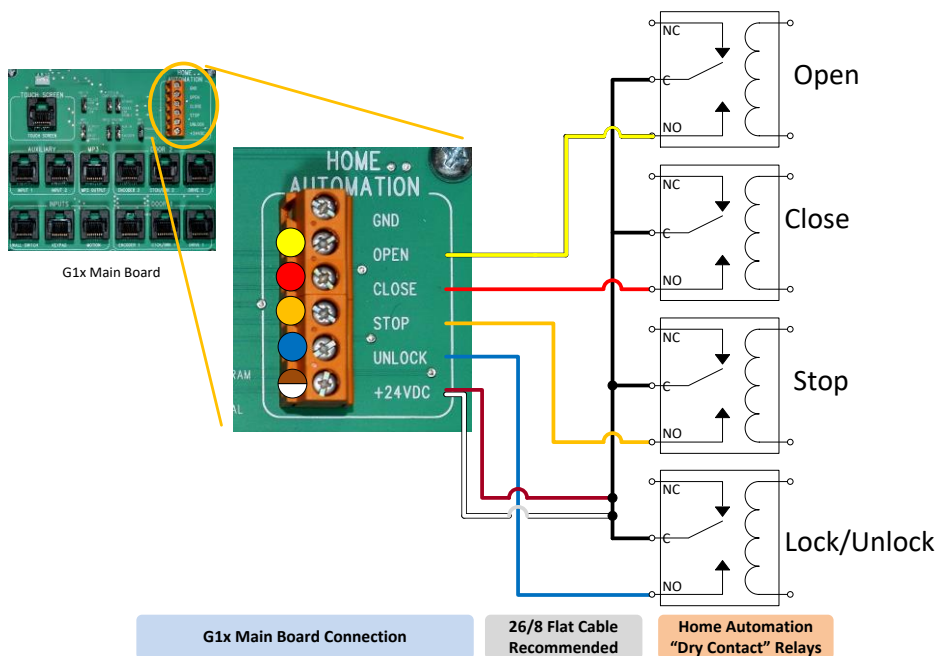
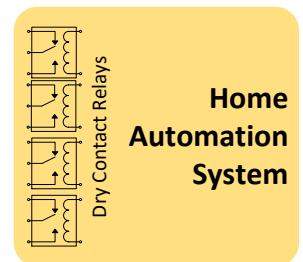
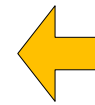
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G1/G1D Controllers

The G1x controllers can be attached to home automation systems that support “dry contract” relays. The connection to the door controller is made through a connection terminals located on the main board.



1. Route an appropriate length of 26/8 flat wire from the door controller to the home automation system.
Standard network cable is not recommended.
2. Wire the Home Automation system relays so that the 24VDC can be switched to the appropriate control lines for the desired door functions.
3. Configure the Home Automation system to engage the required door function relay for a **1 second closure**, the relay closure then **MUST** be released (open).
4. Test the Home Automation system with the automated door.



G1x Main Board Connection

26/8 Flat Cable Recommended

Home Automation "Dry Contact" Relays

G1 Controller

“Dry Contact” Relay Rating: **18mA @ 24VDC**