

Garage Door Control (Liftmaster Model 2245)

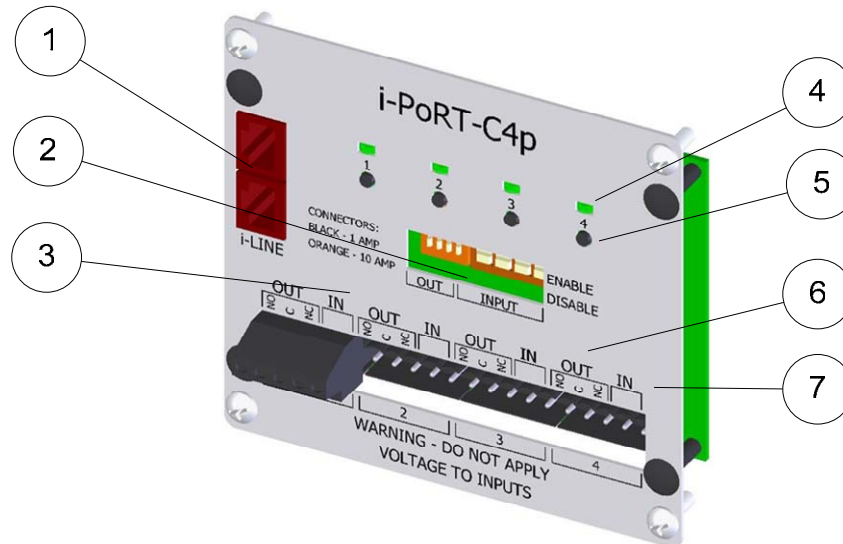
The i-LiNE Lighting Control System can be used with the Liftmaster Model 2245 garage door opener to expand lighting control. Imagine pulling into the garage and walking into a fully-lighted home without ever touching a light switch. Later in the evening a quick check of a designated i-ON-MB Multibutton LED in the bedroom assures the garage door is closed.

This Application Note explains how to use the i-LiNE i-PoRT-C4p to control the Liftmaster Model 2245 garage door opener as well as trigger scenes when the garage door opens. Also explained is how to use an i-LiNE Multibutton LED as a garage door monitor by connecting an inexpensive magnetic switch to the i-PoRT-C4p.

The instructions on the following pages are for the Liftmaster Model 2245 garage door opener only. To control other garage door openers, please consult the manufacturer for wiring information.

Important Notes to the Installer:

1. The i-PoRT-C4p cannot function without the power provided by the i-PoWER-M1/M4 through the i-LiNE network cables. This Application Note assumes that the i-PoRT-C4p is properly installed according to its installation sheet.
2. Although Ports 1 & 2 are used in this Application Note, any two ports of the i-PoRT-C4p can be used.
3. This Application Note uses the Liftmaster Model 2245 1/3 hp Chain Drive Garage Door Opener and the Aleph International magnetic switch.
4. Maximum Voltage: Do not exceed 30 VDC/30 VAC on the outputs of the i-PoRT-C4p.
5. Maximum Current: Do not exceed 1 amp on outputs with black connectors or 10 amps on outputs with orange connectors.



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|--|-----------------------------------|
| 1. i-LiNE Network Connections | 5. Buttons for programming scenes |
| 2. DIP switches – for inputs/outputs | 6. Output relay ports |
| 3. Mounting holes – for panel mounting | 7. Input sense ports |
| 4. LEDs – status indicators | |

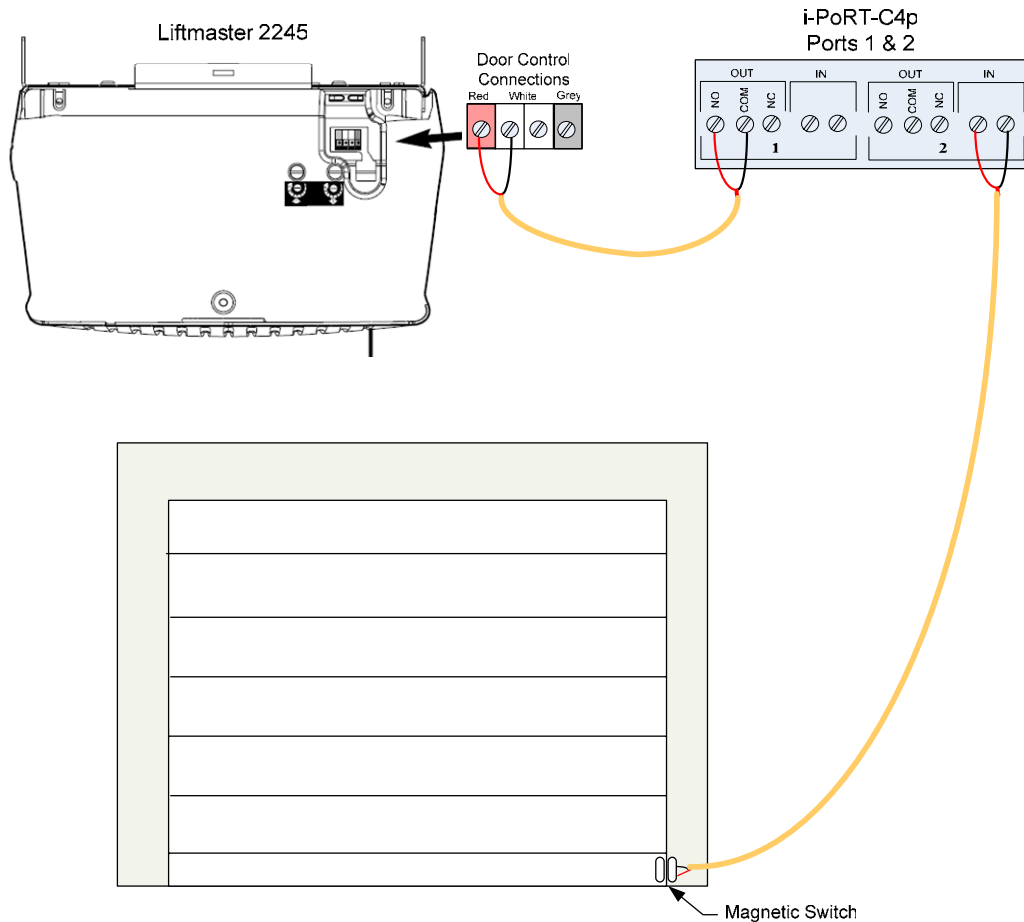


Fig. 1 – Wiring Diagram

Step 1: Mount the magnetic switch (Fig. 1)

1. Use a meter to check that the magnetic switch works before installing it.
2. Follow the instructions included with the magnetic switch to mount it on the inside of the garage door near the bottom.
3. Verify that the magnetic switch circuit opens and closes when the garage door opens and closes. If not, the two halves of the switch may not be close enough for the magnet to activate the switch.

Step 2: Wire the i-PoRT-C4p (Fig. 1)

1. Before connecting wires to the i-PoRT-C4p, set the DIP switches for ports 1 & 2 to DISABLE.
2. Run a two-conductor wire from the i-PoRT-C4p to the Liftmaster 2245. The terminals are located on the back end of the unit.
3. At the i-PoRT-C4p, connect the two wires to Port 1 outputs 'NO' and 'COM'.
4. At the Liftmaster 2245, connect the wire from 'NO' to the 'Red' terminal and connect the wire from 'COM' to the 'White' terminal. Note that the Red and White terminals are the Liftmaster wall pushbutton terminals.
5. Run another two-conductor wire from the i-PoRT-C4p to the magnetic switch.
6. At the i-PoRT-C4p connect the wires to the 'IN' terminals of Port 2.
7. At the magnetic switch, connect the wires to the two terminals.

Step 3: Put Port 1 into 'Garage Door Mode'

The i-PoRT-C4p has six different modes which change the operation of the inputs and outputs. Follow the steps below to put Port 1 into Garage Door Mode.

1. Press and hold button 1. While holding button 1, press and release any other button.
2. Continue holding button 1 until it flashes slowly. Release button 1; it is now in Program Mode.
3. Press and hold button 1 again. Hold it until it flashes several times quickly, then release. The button is now in Button Mode.
4. Press and hold button 1 again. Hold it until it flashes several time quickly, then release. The button is now in Dimmable Mode.
5. Press and hold button 1 again. Hold it until it flashes several time quickly, then release. The button is now in Momentary Mode.
6. Press and hold button 1 again. Hold it until it flashes several time quickly, then release. The button is now in Garage Door Mode.
7. Press and release button 1 to exit Program Mode, leaving it in Garage door mode.

Step 4: Put Port 2 into 'Button Mode'

If Port 2 is not already in Button mode, follow the steps below:

1. Press and hold button 2. While holding button 2, press and release any other button.
2. Continue holding button 2 until it flashes slowly and then release it. It is in Program Mode.
3. Press and hold button 2 again. Hold it until it flashes several times quickly, then release. It is now in Button Mode.
4. Press and release button 2 to exit Program Mode.

Step 5: Enable the ports

1. Set DIP switches on Ports 1 & 2 OUT and IN to ENABLE.

Step 6: Test the i-PoRT-C4p

1. Press button 1 on the i-PoRT-C4p. The garage door should go up and Port 2 LED should go OFF.
2. Press button 1 again and the garage door should go back down. Once the garage door is completely closed, Port 2 LED should go ON.

Step 7: Program the Lighting Scene for the Garage Door

The following procedure will program a group of iLiNE lights to come on when the garage door closes.

1. Put button 2 of the i-PoRT-C4p into Program Mode as follows: Press and hold button 2. Press and release any other button. Continue holding button 2 until it starts flashing slowly, then release. Button 2 is now in Program Mode.
2. Turn on the i-LiNE light switches to be included in the lighting scene. If the lightswitches are already on, turn them off and then on again since the iLiNE system only detects changes during scene programming.
3. When finished, press and release button 2. The scene is programmed.
4. Test the Scene: Open the garage door and then close it. The lighting scene should come on when the garage door is closed.

Step 8: Program an i-LiNE Multibutton LED as a Garage Door Monitor

1. Put button 2 of the i-PoRT-C4p into Program Mode as follows: Press and hold button 2. Press and release any other button. Continue holding button 2 until it starts flashing slowly, then release. Button 2 is now in Program Mode.
2. Choose an i-LiNE Multibutton LED to display the garage door status. The button should be dedicated as a garage door monitor and not control any lights.
3. Press the button ON. If it is already ON, turn it OFF and then back ON since the iLiNE system only detects changes during scene programming.
4. Press button 2 of the i-PoRT-C4p to take it out of Program Mode.
5. The Multibutton LED now displays the status of the garage door. When the garage door is closed, the Multibutton LED will be ON and when the garage door is open the LED will be OFF.

Note: Do not press the button which is used to monitor the garage door as this will toggle the LED and it will no longer display the correct position of the garage door.

Other Application Notes available at www.edt.biz:

A-04050932B Blind Control

A-04050930B Wireless Key Fob

A-04050933B Motion Detector

A-04050931B Motor Control

A-04050929B Non-Lighted Door Bell

A-04050937B Lighted Door Bell