

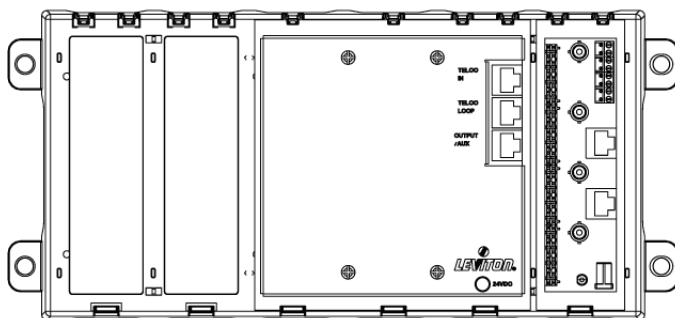
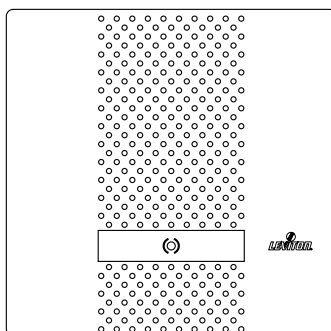
## Quick-Install Guide

# Leviton Residential Intercom System

The Leviton Residential Intercom System is a residential intercom system that utilizes the telephones in the home to allow communication with the front door, gate or any location where a wall station is installed. The Intercom System provides for internal communication on the connected phones, call holding, call announce, and station monitor applications. Using a CAT5e star wiring topology up to twelve wall stations in four zones can be connected to the Main Controller board. The Intercom makes use of the Leviton Integrated Networks modular format, easily mounting in the Structured Media Center on a standard plastic bracket.

### PACKAGE CONTENTS

- Main Controller Board
- Station Interface Board
- Push-Lock Pins
- Grommets
- Power Supply
- 12" Patch Cord (3)



- For technical assistance contact us at 1-800-824-3005
- Visit our website at [www.leviton.com](http://www.leviton.com)

## MOUNTING

### **BRACKET:**

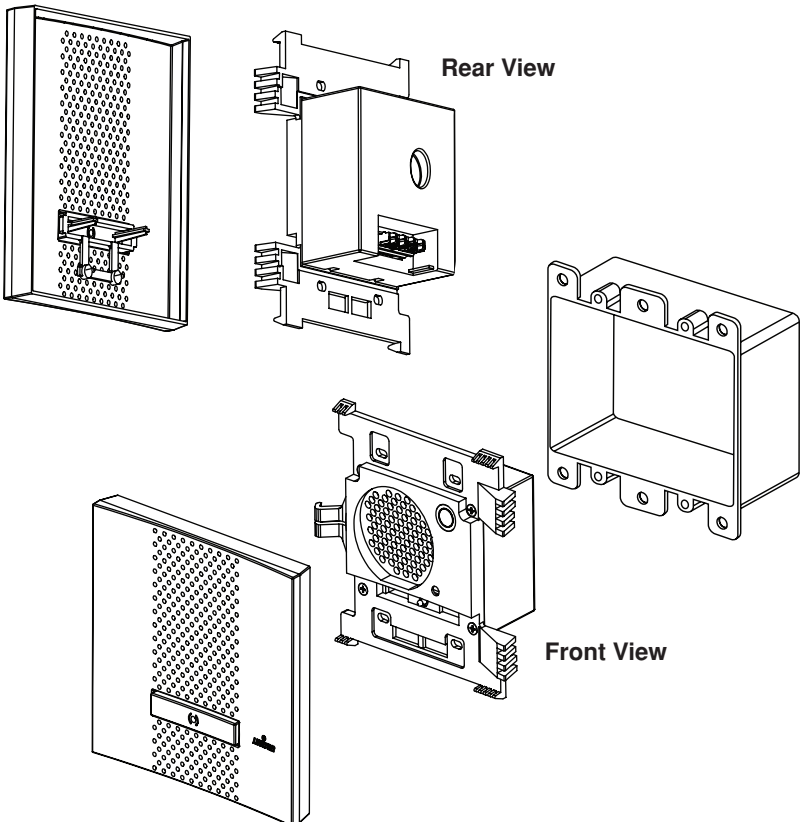
Mount the Intercom System bracket into the Structured Media Center enclosure in a convenient location, directly below the telephone distribution board is recommended.

Align the Push-Lock Pins with the grid holes on the back wall of the enclosure. With the plungers in the "out" position, place the unit into the rear hole grid and press all plungers in.

### **WALL STATION:**

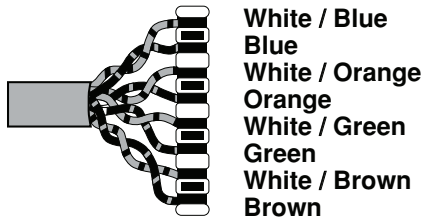
The wall station is designed to fit within a standard two gang wall box or low voltage ring.

- Verify back box fits into selected low voltage ring prior to mounting ring to stud or wall.
- Punch down the CAT5e cable from the Station Interface Board to the IDC on the back box.
- Mount the back box to the low voltage ring.
- Snap face plate onto back box. If the wall station is mounted in potentially wet locations, it is recommended that silicon caulk be used to seal the face plate to the wall.



**WIRING:**

1. To prewire for the Intercom System, simply run a single CAT5e from the SMC to each wall station location desired.
2. To prewire for ringing of the doorbell on wall station activation (door chime application) run doorbell wire from door chime location and doorbell power supply location to SMC.
3. To pre-wire for door strike application, simply run wire from the strike location and power supply to the SMC.
4. At trim out, punch down the CAT5e to the wall station and to the desired zone input on the Intercom Interface Board.



**NOTE:** Typically the front door will be zone 1, the back door will be zone 2, and the other wall stations will connect on zones 3 and 4.

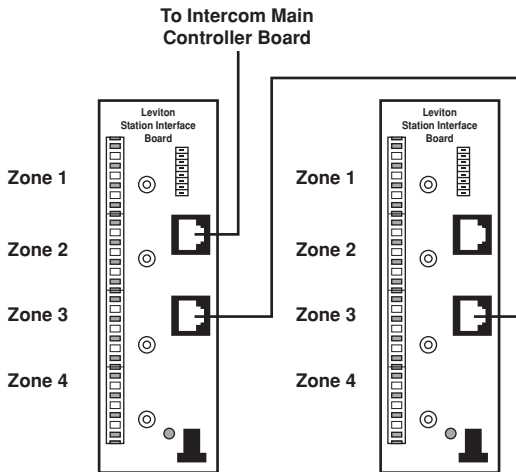
5. Using the provided patch cords, connect the top jack on the Intercom main Controller Board (Telco In) to the Test port on the installed TLDM. This provides phone service (lines 1-4) to the Intercom System.
6. Connect the middle jack on the Intercom Main Controller Board (Telco loop) to the ADO port on the installed TLDM. This returns the phone service (lines 1-4) to the TLDM.

**WARNING: REVERSING THE ABOVE CONNECTIONS WILL PERMANENTLY DAMAGE THE MAIN CONTROLLER BOARD**

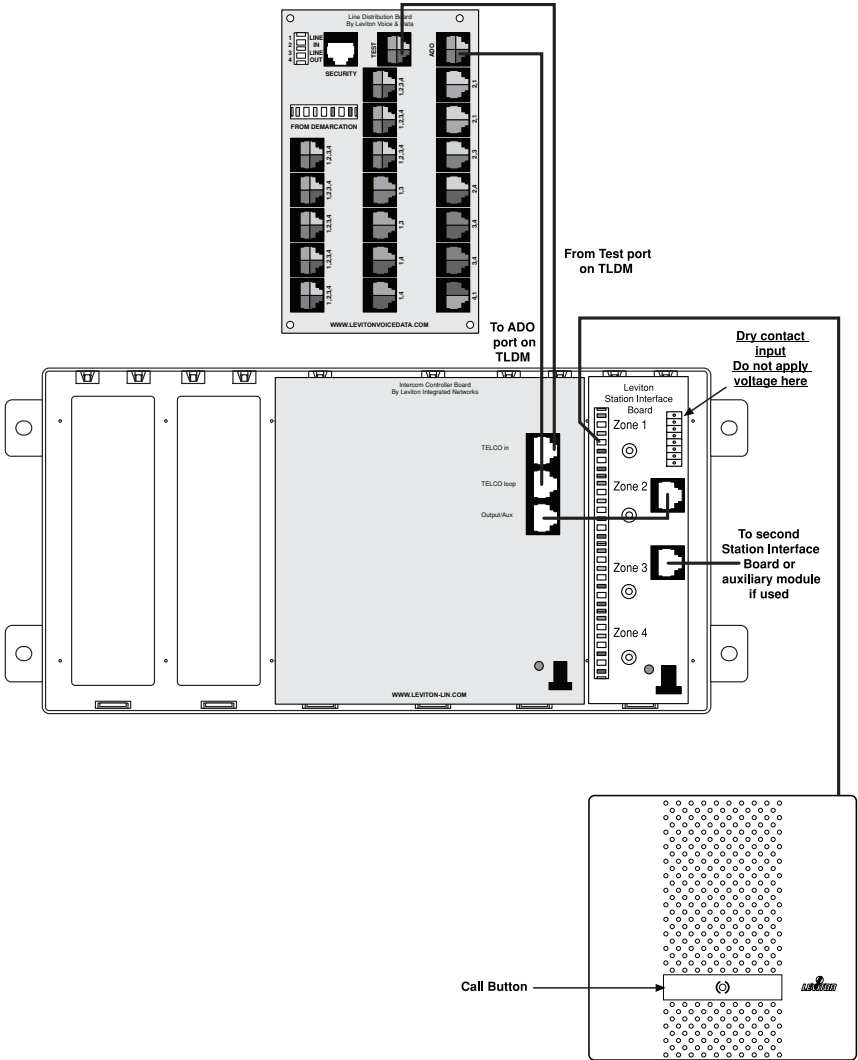
**NOTE:** The Intercom System will only operate on line 1. Lines 2-4 are passed through the system and not used by the intercom. In multiple line phone systems, only those phones connected to line 1 will ring on wall station activation.

**NOTE:** The Intercom System is capable of supporting connected phone equipment up to a total Ringer Equivalency Number (REN) of 4.6. The REN can be found on the ID label on the bottom of the telephone. If you cannot find the REN, please contact the phone manufacturer for assistance.

6. Connect the bottom jack on the Intercom Main Controller Board (Output/Aux) to the top RJ45 jack (Input) on the Station Interface Board. This provides connectivity to the intercom zones.
7. The Intercom Main Controller Board requires a 24 VDC power supply (included), connect the power supply to the jack at the bottom of the board. Plug the transformer into an available 110 VAC outlet at the bottom of the SMC. The green power LED will flash slowly at a low light level. When a wall station is activated, the green power LED will flash, at a brighter light level, in sync with the distinctive ring of the zone that the station is connected to.



If more than four wall stations are used, simply connect a second Station Interface Board to the available RJ45 jack on the first Station Interface Board.



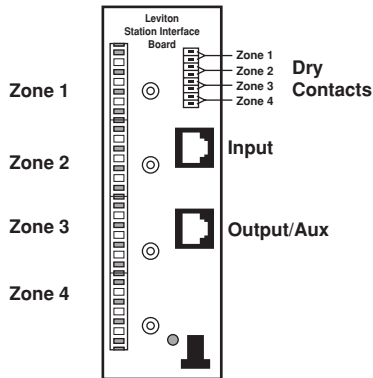
**NOTE:** It is recommended the Intercom System be used with the TLDM for phone connection; please contact Leviton Technical Support at (800) 824-3005 for assistance if using a method of phone distribution other than the TLDM.

## Accessory connections:

The Station Interface Board includes the following connectors:

- Dry contact screw terminals (16-24 awg) - allow a dry contact closure (for example security sensors, motion sensors, etc.) to activate the phones in the house with the distinctive ring of the zone connected to. When the phone is picked up, it activates communication or monitoring of the wall stations connected to that zone. For example, a motion sensor connected to the top two screw terminals will cause the house phones to ring with the zone one distinctive ring when the motion sensor is activated.

**DO NOT APPLY VOLTAGE TO THE DRY CONTACT CONNECTIONS!**



- Output/Aux RJ45 jack - allows for the connection of multiple station interface boards, door chime module, door strike module and future applications.
- RCA connectors - for future applications
- Power LED/connector - for future applications

## **Functions:**

- **Station Call (Zone to Phone)** - When a station button is actuated, a signal is sent to the Main controller board, which in turn rings all of the connected phones within the home. The phone will ring for 5 cycles (a 1-second ring with 3-second stop pattern), and allow an additional 5-25 seconds after the fifth cycle to allow for connection and full duplex communication. There is a differentiating tone between each zone (zone 1 has one ring for five cycles, zone 2 has two rings for five cycles, etc.). There is a total time of 40 seconds from time of station actuation to on hook condition (station call disconnected). If the phone is in use at the time, a call-waiting tone will be heard. Pressing the "Flash" button on the phone or a rapid cycle of the hook will place the incoming caller on hold with music-on-hold and allow communication with the door station. Pressing "Flash" or hook cycle again will reconnect the incoming caller, drop the station call, and disable music-on-hold.
- **Zone Monitor** - From any phone connected to the Intercom System press \*1, \*2, \*3, or \*4 to communicate with or monitor the wall stations connected to that zone.
- **Incoming Call Transfer** - Allows an incoming call to be transferred to any other phone in the home. Pressing "\*\* \* \*" while on a call places the caller on hold. When the telephone is hung up, all phones in the home ring a distinctive ring tone. Picking up any phone and entering "\*\* \* \*" reconnects that telephone to the outside call.
- **Phone-to-Phone Paging function** - Allows for communication between all telephones within the home. This feature is activated by pressing "\*\* \* \*" within 5 seconds of off-hook and all phones will ring. In a non connected (not on a call) application, Pressing "\*\* \* \*" creates a ring back tone in the phone. Placing the phone on hook causes all connected phones to ring.
- **Call Announce** - While on a call, Pressing "\*\* \* \*" places the call on hold, the outside caller will hear music-on-hold, and a call waiting signal occurs. When the phone is hung up, all phones will ring. When any phone is picked up the ringing stops; pick up the original phone to announce the call and hang up. The party left on the line presses "\*\* \* \*" to reconnect the phone call and disables music-on-hold. If only one phone extension is used on the call pickup, pressing "Flash" or off-hook will connect the call.
- **Answering Machine Auto Answer** - The Intercom System operates on a five ring cycle. Setting your answering machine to less than five rings will allow it to answer the station call and allow visitors to receive a greeting and leave a message. To disable this functionality, set the answering machine to six or more rings.
- **Queuing** - If more than one zone is activated or if a zone is activated while communicating with another zone, the calls will be queued in the order they are received. When the current call is terminated the phones will ring with distinctive ring tones in the order of zone activation.

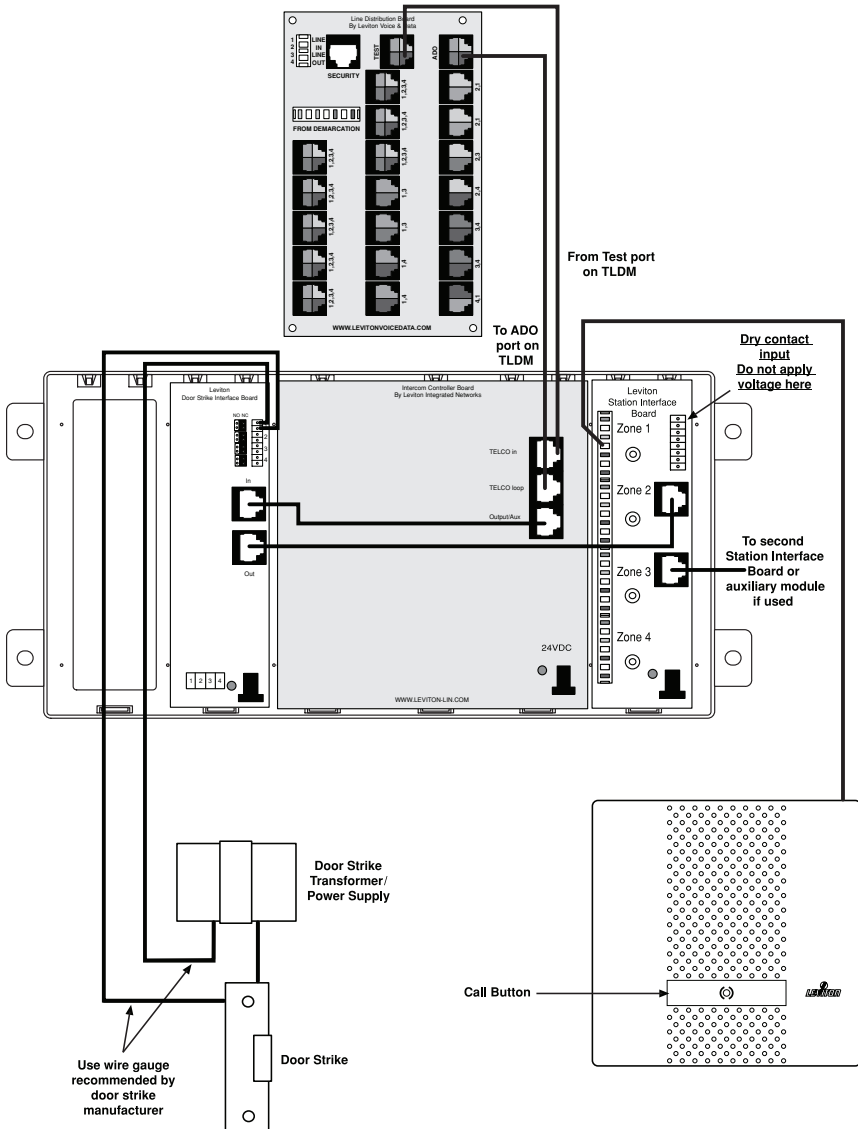
**NOTE:** Music on hold is built into the functionality of the main controller board. It is embedded in the software of the system and cannot be changed or modified. There is no provision to connect external devices for this feature.

# INTERCOM DOOR STRIKE AND CHIME MODULES

## DOOR STRIKE:

Mount the Door Strike board onto an available spot of the Intercom System bracket.

1. Connect wires from door strike and strike power supply to the correct terminals on the terminal strip (see drawing). Use terminal SW1 for door strike in zone 1, SW2 for door strike in zone 2, etc.





2. Adjust the jumper for connected zones to normally open (NO) or normally close (NC) as desired. “Normally open” refers to the contacts being open (and no current flowing) when the board is energized. Conversely, “normally closed” means the contacts are closed (with current flowing) when the board is energized. The contacts are rated for 1 Amp at 125VAC/30VDC.
3. Use the patch cord to connect output of the Intercom Main Controller board to the input of the Door Strike board.
4. Use the second patch cord to connect the output/aux of the Door Strike board to the input of the Intercom Interface board.  
**NOTE:** It is important that the Door Strike module is connected DIRECTLY to the Intercom Main Controller board.
5. Set the dip switches according to the table below for the desired DTMF tone for activation and relay activation time.  
**NOTE:** Chime board must be de-energized prior to changing settings.  
**NOTE:** The LED will blink to indicate normal operation.

Keypad #	Delay Time	Time		DTMF	
		Switch 1	Switch 2	Switch 3	Switch 4
7	5 sec	0	0	0	0
7	1 sec	0	0	0	1
7	3 sec	0	0	1	0
7	0.5 sec	0	0	1	1
5	5 sec	1	0	0	0
5	1 sec	1	0	0	1
5	3 sec	1	0	1	0
5	0.5 sec	1	0	1	1
0	5 sec	0	1	0	0
0	1 sec	0	1	0	1
0	3 sec	0	1	1	0
0	0.5 sec	0	1	1	1
*	5 sec	1	1	0	0
*	1 sec	1	1	0	1
*	3 sec	1	1	1	0
*	0.5 sec	1	1	1	1

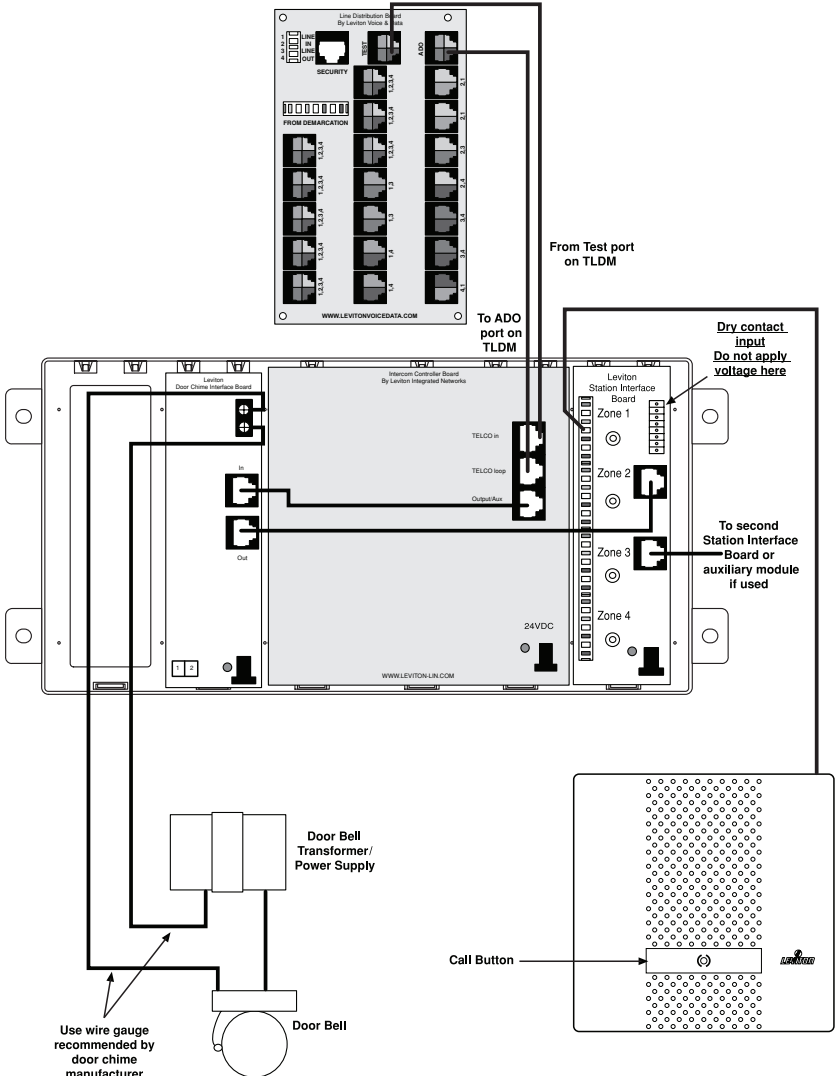
0 = off (switch away from board), 1 = on (switch pushed toward board)

- Power module using power supply provided or jumper to PSA
- This module requires 12VDC
- Fuse is a 1 Amp 250V type GFE

## **DOOR CHIME:**

Mount the Door Chime board onto an available spot of the Intercom System bracket.

1. Connect wires from door chime transformer and chime set to terminals at the top of the board. A chime will sound when any zone is activated.
2. This module can be used for various devices; the contacts are rated for 1 Amp at 125VAC/30VDC.
3. Set the jumper for normally open (NO) or normally closed (NC) contacts as desired. If being used to activate a door chime, set to the "normally open" position.



4. Use the patch cord to connect the output of the Intercom Main Controller board to the input of the Door Chime board.
5. Use a second patch cord to connect to the output/aux of the door chime board to the input of the Intercom Interface board.
6. Set the dip switches according to the table for the desired relay activation time.

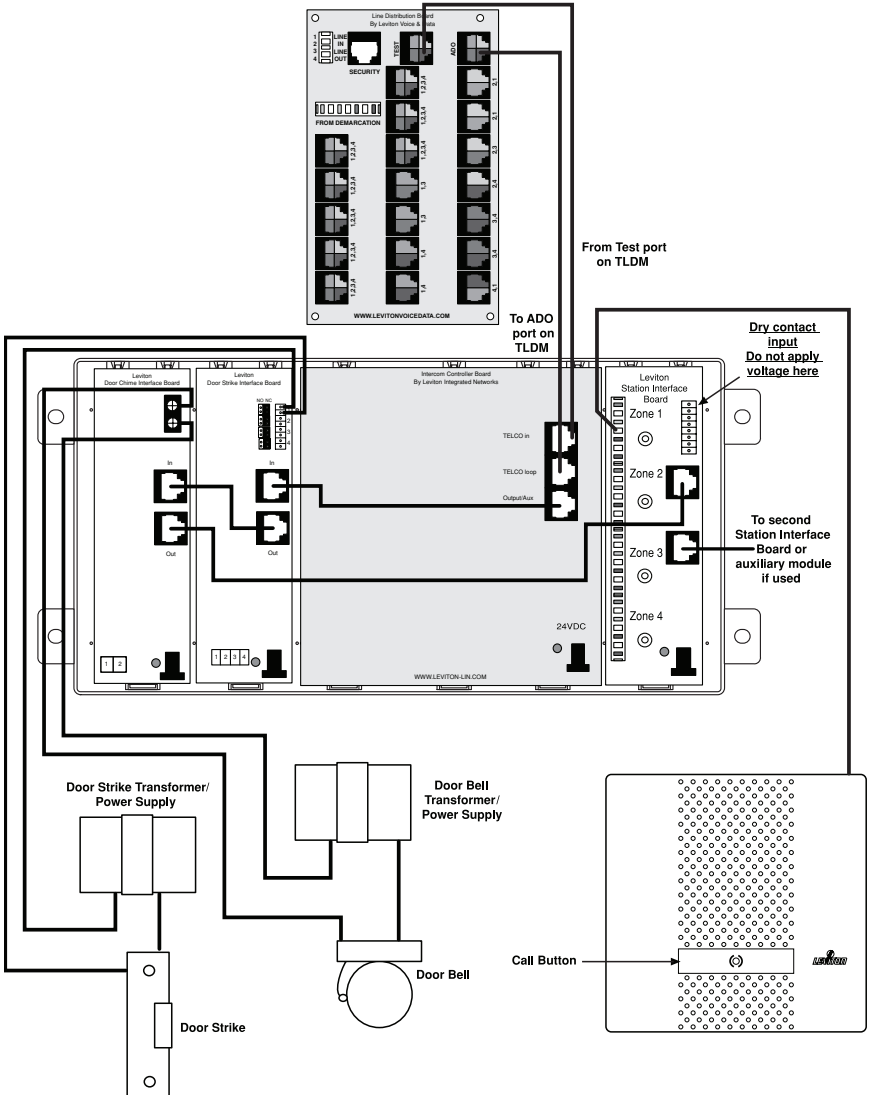
**NOTE:** The LED will blink to indicate normal operation.

<b>Delay Time</b>	<b>Switch 1</b>	<b>Switch 2</b>
<b>3 sec</b>	<b>0</b>	<b>0</b>
<b>1 sec</b>	<b>0</b>	<b>1</b>
<b>2 sec</b>	<b>1</b>	<b>0</b>
<b>0.6 sec</b>	<b>1</b>	<b>1</b>

**0 = off (switch away from board), 1 = on (switch pushed toward board)**

- Power module using power supply provided or jumper to PSA
- This module requires 12VDC
- Fuse is a 1 Amp 250V type GFE

**NOTE:** It is important that if the Door Strike and Door Chime boards are both being used, the Intercom Main Controller board is connected directly to the Door Strike board, then connected to the Door Chime board, and then to the Interface board.



## Notes:

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### LIMITED 2 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for two years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if within such two year period the product is returned prepaid, with proof of purchase date, and a description of the problem to **Leviton Manufacturing Co., Inc., Att: Quality Assurance Department, 59-25 Little Neck Parkway, Little Neck, New York 11362-2591**. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. **There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose**, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to two years. **Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation**. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.



