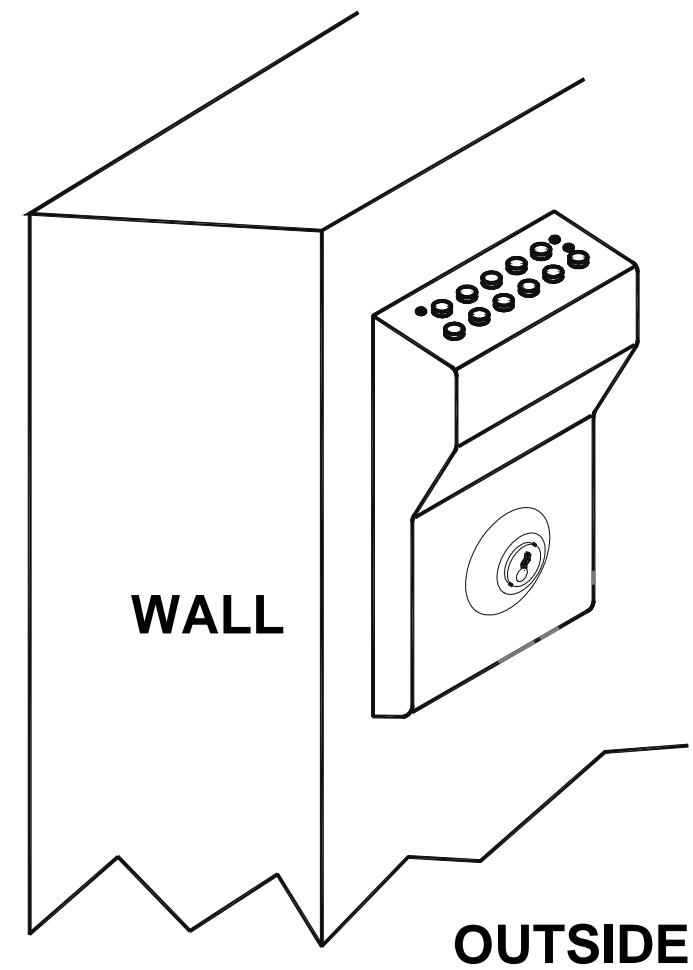


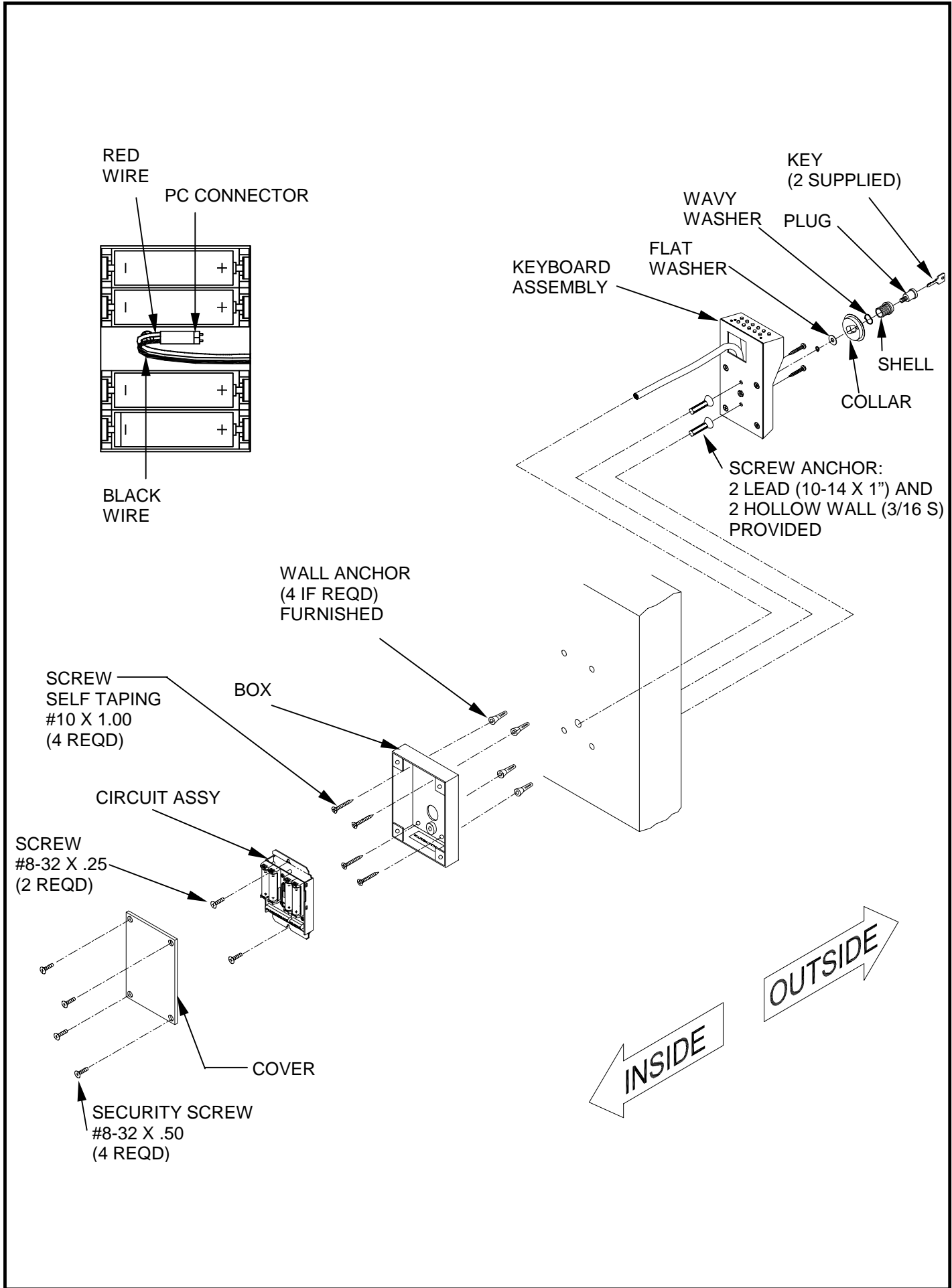


**SECURITY  
DEVICES**

**OMNILOCK<sup>®</sup>  
ACCESS CONTROL SYSTEMS**

**INSTALLATION INSTRUCTIONS  
FOR  
OM100, OM300 AND OM500 SERIES  
WEATHERIZED  
WALL MOUNT SYSTEMS (WMS)**





Notes:

## SECTION 7: COMPLETE THE INSTALLATION

- a. Insert the Cylinder Assembly into the Unit so that the hole in the Collar engages the Stud in the Back Plate. Rotate the Key clockwise until the Cylinder Assembly is snug. The Key may be removed in any vertical or horizontal position.
- b. Install the Cover on the Electronics Box.
- c. Enter the Default Master Code and check for proper operation of the Device.
- d. Record the Key identification number and keep it in a safe place, so that duplicate Keys can be ordered if required. DUPLICATE KEYS MUST BE ORDERED THROUGH OSI SECURITY DEVICES.

## SECTION 8: PROGRAM THE SYSTEM

**IMPORTANT:** To avoid unauthorized access, it is important to program a new Master Code. Refer to the "Initial Setup Checklist" in the OMNILOCK User Guide for programming instructions.

**INSTALLER NOTE:**

Leave these Instructions and other Documents with the User.

## SECTION 1: CHECK OPERATION

- a. Verify proper operation of the system.

**CAUTION - USE STATIC PROTECTION PROCEDURES**

1. Remove the Cover from the Box using the security wrench provided.
2. Remove the sleeving protecting the stripped wire ends from the end of the Cable.
3. Connect the cable wires to the Terminal Block on the Interconnect Circuit Board by inserting the stripped wire end into the Terminal Block and tightening the Terminal Block Screw. Verify that the wire colors are as specified on the Circuit Board.

Enter the default master code 5 0 1 1 2 3 4 at the Keyboard. The lights on the Keyboard will flash three times to indicate the Battery level and the Relay will "click". After approximately 5 seconds the unit will flash red and the relay will "click".

- b. If the system MALFUNCTIONS check for proper orientation and seating of the Batteries and that the wire colors are properly matched to the terminal block. If there was a red flash on the first key press, press any key seven times. The system will flash red for some of the key presses and then go through a SELF-TEST cycle, now re-enter the default master code.
- c. Gently tighten the screws in the Terminal Block J1.
  1. Momentarily short between the screw of the terminals marked "REMOTE SWITCH". The green light will flash and the Relay will click. After approximately 2 SECONDS, the red light will flash and the Relay will click.
  2. With an ohmmeter measure between the terminals marked "COM" and "NO", the ohmmeter will indicate an "open".
  3. Measure between the terminals marked "COM" and "NC", the ohmmeter will indicate a short.
  4. While measuring as indicated in step 3, enter the default master code 5 0 1 1 2 3 4. The ohmmeter will indicate a change from a short to an open circuit and then return to the shorted condition.
  5. While measuring as indicated in step 2, enter the default master code 5 0 1 1 2 3 4. The ohmmeter will indicate a change from an open circuit to a short and then return to the open condition.
  6. Disconnect the Cable from the Terminal Block and tape the wire ends together to protect them.

## SECTION 2: GENERAL INFORMATION

Electrical installation: Install in accordance with local and national electrical codes.

**Static Electricity Protection**

Since the Wall Mount System controller controls external circuits, particular care must be taken to ensure that static electrical discharges will not cause difficulties in operation. A typical source of static discharge is a user who accumulates a charge while walking across a rug, then upon reaching for the keyboard, causes a spark to jump from the hand to the keyboard.

The basic principle is that all devices connected with the system should be electrically connected to a common ground.

This means that the case of the Wall Mount System should be connected to the chassis of the door strike or other device, which it operates and a common ground. (Refer to diagram in section 8.) In addition, if possible, one of the device power supply leads should be grounded to the common ground. A number 18 AWG or larger copper wire is recommended to connect the system to a building ground if available. The equipment-grounding conductor (bare wire or green) normally in an electrical outlet box is recommended for grounding.

### SECTION 3: PREPARE THE WALL

- a. Determine the location for mounting the Unit.  
Consider the route for wires between the device to be controlled and the Unit. Also, consider wheelchair access. The Keyboard Module and the Electronics Module must be located within approximately 15 inches of each other.
- b. Place the Mounting Template for the Keyboard Module in the desired location, insure that the top edge is horizontal and mark the centers for the four holes.
- c. Drill the holes as indicated on the Template. Note that the hole size for the Mounting Screws depends upon the type of wall material and the type of Screw Anchors used. Hollow Wall Anchors and Lead Anchors are provided.
- d. Install the Screw Anchors if required.
- e. Place the Mounting Template for the Electronics Module in the desired location, it must be within approximately 15 inches from the Keyboard Module.
- f. Drill the holes as indicated on the Template. Note that the hole size for the Mounting Screws depends upon the type of wall material and the type of Screw Anchors used. Hollow Wall Anchors and Lead Anchors are provided.
- g. Install the Screw Anchors if required.

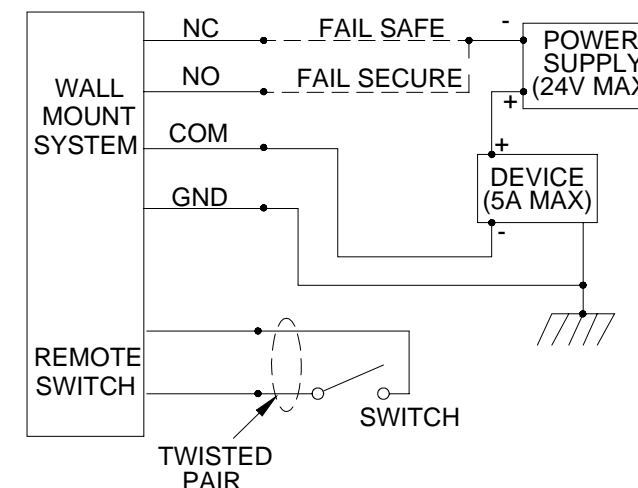
### SECTION 4: INSTALL WIRING AND KEYBOARD MODULE

- a. Insure that the Power Supply for the Device is turned off.
- b. Route the Power Supply Wire, the Device Wire and the Device Ground Wire to the Electronics Module Wire Access Hole in the Wall. Allow the Wires to extend approximately 9" from the Wall. If the wires are to be installed surface mounted, it will be necessary to drill a hole in the electronics box. If a Remote Switch is to be installed, use a twisted pair to connect the switch to the electronics.
- c. Insert the Key into the Cylinder Assembly and rotate the Key counterclockwise until the Cylinder Assembly can be removed from the Keyboard Module.
- d. Route the cable from the Keyboard module through the wall so that approximately 9 inches extend beyond the inside of the wall. Store any excess cable length in the Keyboard module and mount the Keyboard module to the wall.

### SECTION 5: INSTALL THE ELECTRONICS

#### CAUTION - USE STATIC PROTECTION PROCEDURES

- a. Loosen the two Screws holding the Circuit Assembly in the Electronics Module and remove the Assembly from the Box.
- b. Modify the Box as required if surface wiring is being installed.
- c. Route the cable and wires through the hole in the box and mount the box to the wall.
- d. Route the Cable and Wires through the hole in the Circuit Assembly Bracket and mount the Assembly in the Box.
- e. Connect the Cable Wires to the Terminal Block on the Interconnect Circuit Board by inserting the stripped wire end into the Terminal Block and tightening the Terminal Block Screw. Verify that the Wire colors are as specified on the Circuit Board.
- f. Connect the Wire from the Device to the "COM" Terminal of the Terminal Block.
- g. Connect the Wire from the Device Power Supply to the "NC" Terminal for "Fail Safe" operation.
- h. Connect the Ground Wire to the "GND" Terminal.
- i. If being installed, connect the Wires from the Switch to the Remote terminals.



- NOTES: (1): POWER SUPPLY: 24 VOLTS (RMS OR DC) NOMINAL OR LESS.  
(2): DOOR DEVICE CURRENT NOT TO EXCEED 5A.  
(3): CONNECT ONE OF THE POWER SUPPLY OUTPUT LEADS TO THE EQUIPMENT GROUND IF NOT ALREADY CONNECTED.

### SECTION 6: PRE-TEST THE INSTALLTION

- a. Turn on the power to the Device and determine if it is in the proper state. If it is not in the proper state, check the Power Supply and Wiring.
- b. Enter the Default Master Code at the Keyboard. The green light will flash and the Device will change state. After approximately 5 seconds, the red light will flash and the Device will return to its original state.
- c. If a Remote Switch has been installed, momentarily press the Switch. The green light will flash and the Device will change state. After about 2 seconds, the red light will flash and the Device will return to its original state.