



**SECURITY
DEVICES**

**OMNILOCK®
ACCESS CONTROL SYSTEMS**

INSTALLATION INSTRUCTIONS FOR OM-250TL-WMS

WARNING: THIS PRODUCT IS **NOT WARRANTED** FOR OUTDOOR USE!

NOTE: A DOOR-CLOSER IS HIGHLY RECOMMENDED FOR USE WITH THE OMNILOCK.

GENERAL INFORMATION:

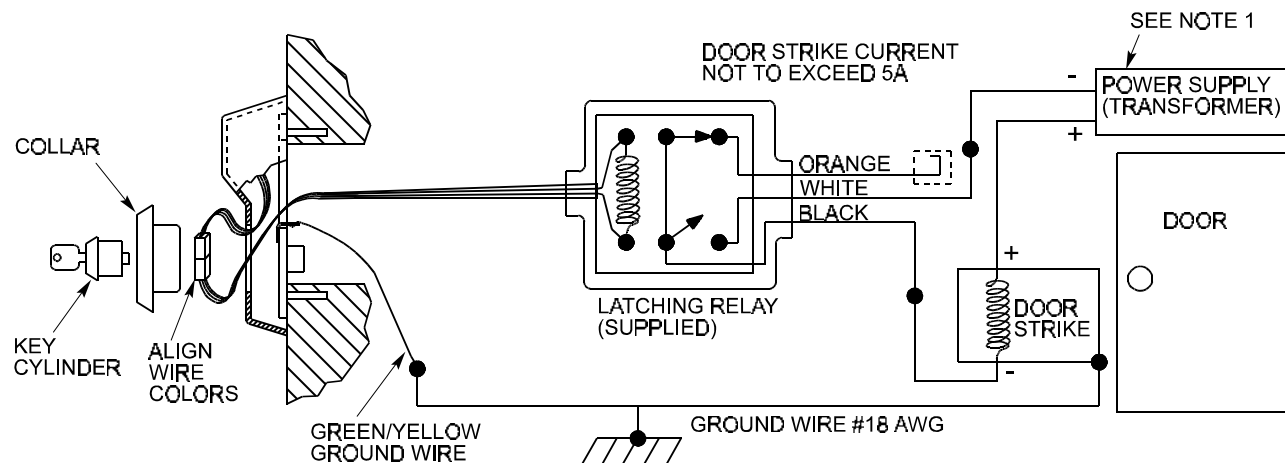
Electrical installation: Install in accordance with local and national electrical codes.

Static Electricity Protection (See Figure 1)

Since OM250TL-WMS Wall Mount System lock controllers control 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 control module keypad, 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 OM250TL-WMS should be connected to the chassis of the lock strike which it operates. In addition, if possible, one of the strike power supply leads should be grounded to the common ground. A number 18 AWG or larger copper wire is recommended to connect the components together and to a building ground if available. The equipment grounding conductor (bare wire or green) normally in an electrical outlet box (or a metal box itself) is recommended for grounding.



- NOTES: (1): POWER SUPPLY: 24 VOLTS (RMS OR DC) NOMINAL OR LESS.
 (2): CONNECT ONE OF THE POWER SUPPLY OUTPUT LEADS TO THE EQUIPMENT GROUND IF NOT ALREADY CONNECTED.
 (3): FOR "FAIL SECURE" DOOR STRIKE, WIRE AS SHOWN, (CONTACT NORMALLY OPEN).
 FOR "FAIL SAFE" DOOR STRIKE, CONNECT POWER SUPPLY (-) TO THE ORANGE WIRE INSTEAD OF THE WHITE WIRE, (CONTACT NORMALLY CLOSED).

Figure 1: OM250TL-WMS wall mount system wiring diagram

External Power Supply (See Figure 2)

Sometimes an external power source is used to power the OM250TL-WMS Control Module instead of the battery. A well regulated 5.0 V dc power supply should be used and a 47uF capacitor (observe polarity marking) connected across the supply leads close to each OM250TL-WMS control module. Insulate the capacitor leads. The negative side of the supply should be connected to the common ground discussed above. The center and negative leads of the battery remain connected in order to supply back-up power to the unit. The negative (-) power supply lead is connected to the negative (-) lead of the battery

connector (along with the negative battery lead) and the (+) supply lead connected in place of the +6V battery lead. The existing power pack (battery) acts as a memory back-up power supply. If the external power supply fails, the battery will keep the lock memory alive and avoid having to re-program the lock after a power failure. Note that if a power failure occurs while the lock is actually in the process of operating, the result may be erratic operation thereafter until the Control Module is reset and re-programmed.

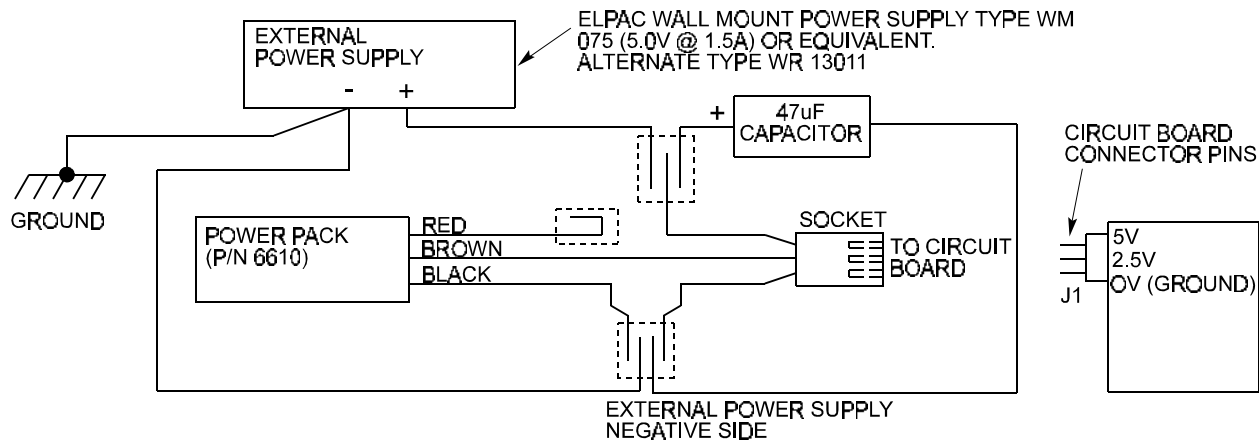


Figure 2: Connecting an external power supply to replace the 6 Volt battery power (battery retained for memory back-up power)

INSTALLATION PROCEDURE

STEP 1: INSTALL MOUNTING PLATE

- Position the Mounting Plate Template on the wall at the desired height (38" from floor recommended). Consider wheelchair access when locating the Mounting Plate.
- Assure that the top edge of the Template is horizontal. Mark the centers for the six holes. Drill the holes through the Wall Board and remove the Wall Board as indicated on the Template.
- Insert the screw anchors into the 3/16" dia holes.
- Determine the location for mounting the Latching Relay for this particular installation (in the wall cavity or an

electrical box on the secure side of the wall). Provide a wire path for the Relay Connector and the Ground Wire to the Mounting Plate.

- Connect the Power Supply to the Relay per Figure 1. Place a Wire Nut over the end of the unused Relay Wire to protect it from shorting. Route the Relay Connector and the System Ground Wire to the Mounting Plate location.
- Connect the System Ground Wire to the Mounting Plate Ground Wire. Route the Relay Connector through the rectangular hole in the Mounting Plate and fasten the Mounting Plate to the Wall with the Screws provided.

STEP 2: INSTALL OMNILOCK

- Locate and record the serial number and initialization code from the back of the OMNILOCK (needed for programming).
- Guide the Connector from the OMNILOCK Module and the Connector from the Relay through the hole in the front of the Module, align the four holes in the OMNILOCK Module with the four Flathead Screws on the Mounting Plate and slide the Module down onto the Plate while pressing it towards the wall.

CAUTION: Do not pinch the wires.

- Plug the Relay Connector into the OMNILOCK Connector so that the wire colors are aligned. Secure the connectors with electrical tape to prevent disconnection. Insert the Connectors into the OMNILOCK Module so that the Cable and Connectors are clear of the hole in the front of the Module.
- Install the Collar into the hole in the front of the OMNILOCK Module so that the slot in the Collar engages the Grounding Screw in the Mounting Plate. Do not pinch the wires. Install the Key Cylinder into the Collar and rotate the Key until the Cylinder is tight. The Key may be removed at any 45° position.

STEP 3: CHECK OPERATION

- Verify proper operation of the OMNILOCK by entering the preset temporary user code, **111-1111**, at the keypad. The OMNILOCK will flash green and energize the relay to unlock. The OMNILOCK will remain unlocked for approximately two seconds before flashing red and re-energizing the relay to lock.

STEP 4: CUSTOMIZE YOUR OMNILOCK

IMPORTANT: To avoid unauthorized access, program the OMNILOCK as described below. See The OMNILOCK OM250TL & Wireless Printer Operation Manual (included with the WP4000 Wireless Printer) for programming instructions.

- Program and test a new Master Code. (**Master Code is preset to 9 + Serial Number**)
- Remove the temporary user code (111-1111). Adding any user code will automatically delete the temporary user code. Or, remove it per the Operation Manual.
- Check the date and time, adjust if necessary.
- Program other features as required.

5010-WMS Rev.F

MOUNTING PLATE TEMPLATE FOR OM250TL-WMS

