



## Instant Alert Monitor

### OPERATING INSTRUCTIONS

King Electric's Instant Alert Monitor is designed to alert the installer if continuity in the heating wire is broken by cutting the wire or if there is a short circuit between the ground and heating wires. Connect the Instant Alert Monitor to your Floor Heating Cable or Mat System **BEFORE** starting installation and leave it connected until the job is **COMPLETE**.

### PREPARATION

1. Remove the battery compartment cover on the back of the Instant Alert Monitor. Insert two (2) AAA size batteries into the compartment. Make sure the batteries are installed in the correct polarity according to the symbols in the battery compartment.
2. Replace the battery compartment cover. Switch the unit to the "ON" position to activate Instant Alert Monitor
3. Since the Instant Alert Monitor is not connected to a mat or Floor Heat Cable system, the alarm should sound and the red alarm indicator light should be lit. If the red alarm indicator light does not go on, and you do not hear the alarm sound, then remove the battery compartment and inspect the battery connections. Correct the polarity or replace the batteries.
4. Turn the Monitor "OFF"

### INSTALLATION

1. Loosen the 3 terminal screws
- 2.a **For One Cable or Mat: See FIG 1**
  - a. Insert the ground wire from the cable into the E terminal on the front of the device and tighten the E terminal screw.
  - b. Insert the one of the two heating lead wires from the cable (black and white (120V) or black and red (240V)) into the L1 terminal from the front of the device. Insert the other into the L2 terminal. Tighten the L1 and L2 screws.
- 2.b **For up to Three Cables or Mats: See FIG 2 or FIG 3.**
  - a. Insert the Black heating lead wire from the heating cable into the L1 terminal from the front of the device and tighten the screw.
  - b. Insert the White for 120V or Red for 240V heating lead wire from a **DIFFERENT** heating cable into the L2 terminal and tighten screw.
  - c. Connect the remaining heating lead wires so that the mats are connected in series.
  - d. Connect all ground wires together and connect them to the E terminal and tighten screw.
3. A green light indicates that the device is operating properly and does not sense damage in the cable.

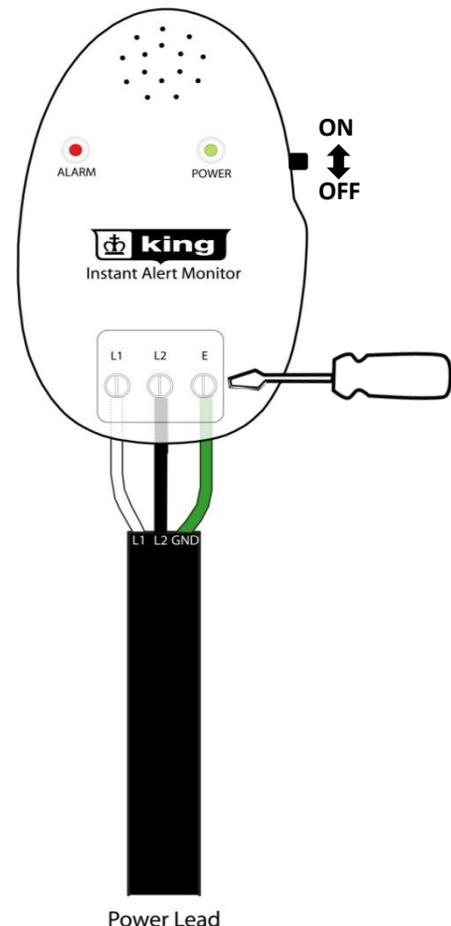


Figure 1

# king

## Instant Alert Monitor

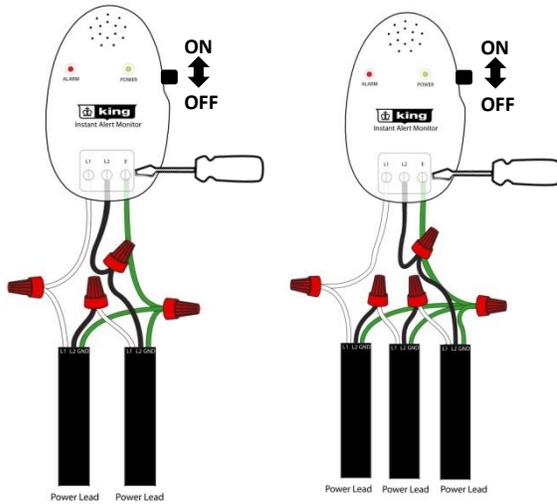


Figure 2

Figure 3

## OPERATION

**IMPORTANT:** Make sure that the Floor Heating Cables or Mat systems which will be monitored **ARE NOT** connected to the line voltage.

**IMPORTANT:** Connect the lead wires of the Floor Heating Cable to the Instant Alert Monitor before beginning installation to immediately detect any damage caused during the installation process.

1. Set the Switch to the "ON" position.
2. A green light indicates that the Instant Alert Monitor is operating.
3. The Monitor should be placed where it can be easily seen and heard during installation of the floor heating system.
4. The Monitor will sound an alarm and turn the red alarm indicator light ON when it detects either that the lead wires have come loose from the terminals or damage (opened or shorted cable) has occurred to the Floor Heating Cable or Mat kit(s). If the red light turns on and the alarm sounds during installation, stop all work. Check the terminal connections to check if the lead wires have come loose. If the terminal connections are acceptable, consult the troubleshooting section of the installation manual that came with your Cable or Mat kit.

## WARNINGS

**1. Do not connect line voltage** to Floor Heating Cable or Mat system with the Instant Alert Monitor installed. Doing so will result in damage to both the Heating Cable or Mat System and Alert Monitor.

**2. Instant Alert Monitor is not a substitution for an ohm meter.** It will only indicate that damage may have occurred to the Floor Heating Cable or Mat System during installation. An ohm meter should be used to obtain specific resistance readings.

**3. The Instant Alert Monitor may not detect nicks in the heating wire that could cause GFCI tripping if the nick does not result in an open or short circuit.** Therefore, after laying out the floor heating system, we recommend connecting your floor heating system to power and GFCI test the operation before adding your final floor covering. We are not liable for any costs associated with the damage found or not found by the Instant Alert Monitor. We recommend that you keep a drawing and/or photo of your heating cable layout to aid possible troubleshooting.