

START-UP INSTRUCTIONS FOR INFRARED SENSORS

The self-adaptive sensor automatically adapts to the surrounding environment when 24-volt supply is activated. No manual adjustments are required.

Start-up mode will take approximately **5 minutes** to complete its cycle and is important that **no non-permanent** target is present at this time. A continuous red light visible in sensor window indicates sensor is in the start-up mode. If the red light is flashing, this indicates the sensor is picking up a target. Unless this target is a permanent fixture in the sensor's environment (i.e. A wall or stall door) it must be removed from the view of the sensor. When the start-up cycle is completed, there will be no light in the sensor window.

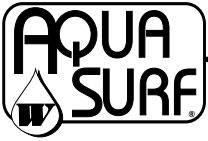
Note: if the 24 volt power supply is ever interrupted for longer than fifteen seconds, the start up mode automatically begins when power is restored.

Incorrect wiring or a short in the 24-volt power supply is indicated by a continuous warning signal seen in the sensor window. The visible red light flashes a SOS signal; 3 slow, 3 fast, 3 slow flashes.

Visit our website at <http://www.willoughby-ind.com>

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TROUBLESHOOTING GUIDE

- I. Faucet does not Function (red light does not appear when user steps in front of sensor)
 - A. No power to sensor. Make certain that power is on. Check transformer leads and connections. Repair or replace as necessary.
 - B. EL-1500-LL sensor not operating. Replace EL-1500-LL sensor.

- II. Faucet does not Function (red light appears when user steps in front of sensor and solenoid does not click)
 - A. Debris in solenoid; disassemble, clean and flush.
 - B. Solenoid not wired correctly check solenoid connections.
 - C. Solenoid problem; replace solenoid.

- III. No Water when Activated (valve clicks)
 - A. Make certain that water is turned on.
 - B. Valve clogged; clean or replace filter.

- IV. Very low Flow or Slow Dribble
 - A. Check supply stop(s); open if closed.
 - B. Debris in filter; remove, clean and reinstall.
 - C. Debris in aerator or spray head; remove, clean and reinstall.
 - D. Disassemble solenoid; clean and flush.

- V. Continues to Run (with power on and red light flashing)
 - A. Non-permanent target in range after user leaves. Remove non-permanent target. If this target is a new permanent target (i.e., a new wall or partition), turn off 24 volt power for fifteen (15) seconds. Turn power back on and let the sensor complete start-up mode.
 - B. Sensor failure; replace sensor.

- VI. Continues to Run (even with power disconnected)
 - A. Solenoid valve installed backwards.
 - B. Debris in solenoid, won't close properly; remove operator and clean. Reassemble in the same manner.

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