# Troubleshooting Guide LightLEEDer 4 Load Room Controller

LL-4RC Part #LL002304

#### **General Issues**

- Is there proper voltage from Transformer? 24vac Red to Red and 12vac Yellow to Red.
- Check Status LEDs:
  - o Power- ON solid
  - O K- Blinking = CPU running
  - o Com- Blinking = Data Communication Ok
- Are all relay ribbon cables firmly seated?
- Verify correct low voltage wiring for Occupancy Sensors, Photo Sensors, and Dimming Outputs.

#### **Communication Issues**

- Is the Room Controller addressed correctly? (Remember 0s down for proper reference)
- Are Data Cables connected to correct In/Out ports and seated properly? IN port does not pass power to other downstream devices.
  - Test Data Cables for damage and verify data cables are terminated properly (T568B standard) using a cable tester.
- Is there more than one Room Controller or LightSync device with the same address?

#### Occupancy Sensor not controlling lights

- Is there proper voltage to and from the sensor?
  - Out to sensor- 24vdc Black to Red (If 0 does voltage return when Blue wire removed?)
  - o Return from sensor- 24vdc Black to Blue (if sensor detecting movement)
- Verify Input power current does not exceed 200Ma.
- Is the Input properly configured? Maintained on/off (or Maintained off only for vacancy sensor)?
- Are the correct Relays/Outputs properly mapped to the Input?

#### Occupancy Sensor does not turn lights off

- "Stuck" inputs are usually due to a bad sensor head. Remove the blue wire. Does input open?
  - o If multiple sensors on the same input, it only takes one bad one to hold up the entire run. Disconnect all sensors and reconnect one at a time until you find the bad one.
- Check sensitivity and time settings on the sensor and adjust if necessary.

### **Photocell not controlling lights**

- Is there proper voltage to and from the sensor?
  - Out to sensor- 5vdc Black to Red (If 0 does voltage return when Blue wire removed?)
  - Return from sensor- 0-5vdc Black to Blue (may fluctuate due to digital signal)
- Remove the blue wire. The fixtures should ramp down to 0 and Open relays.
- Is the Input properly configured? On and Off levels properly set?
- Are the correct Relays/Outputs properly mapped to the Input?



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