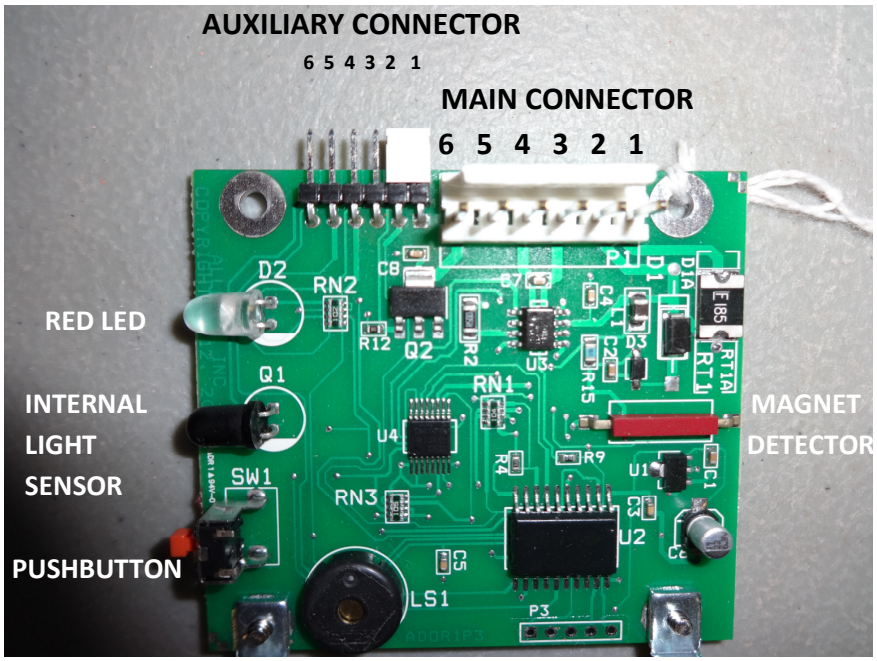
ADOR CONNECTIONS FOR ACCESSORIES

There are two "user" connectors on the top edge of the main electronic board. Facing the component side of the board, on the left is the 6 pin **AUXILIARY CONNECTOR** which comes from the factory with pins 1 & 2 shorted. On the right is the **MAIN CONNECTOR** which has 6 larger pins, 4 wires going to Battery and Motor.



MAIN CONNECTOR (starting from right):

1. Battery+ (red alligator clip). Connect to +6V.
2. Battery – (black alligator clip). Connect to battery minus (-), or "common".
3. Motor +. Connects to motor.
4. Motor -. Connects to motor.
5. *Aux+. Battery + out.
6. *Aux-. Switched to Battery-.

* From the factory, locations 5 and 6 are vacant of terminals on the white connector.

AUXILIARY CONNECTOR (starting from right):

1. Internal Photo Sensor.
2. Photo Sensor Input.
3. External Photo Sensor +.
4. LED (serial data).
5. Switch (Parallel with pushbutton switch on board).
6. Common. Same as Battery -.

AUXILIARY CONNECTOR : Attaching accessory devices

- **External Photo Sensor** – remove and keep the jumper that is shorting pins 1 & 2 on the AUXILIARY CONNECTOR. The jumper enables the internal sensor. Connect the external photo sensor between pins 2 and 3, with 3 being plus (white wire (+) of twisted pair goes on pin 3). Don't lose the jumper. Park it sideways on pin 1.
- **External switch** – short pins 5 and 6 together momentarily and it functions same as the ADOR pushbutton. These two terminals can be run via twisted pair wire to a doorbell button (unlighted), many feet away.

MAIN CONNECTOR: Attaching accessory devices to AUX SWITCH:

The AUX SWITCH is a solid state switch on the ADOR electronic board that is controlled by ADOR's software. It can switch up to 100 milliamps of DC current to Battery Negative (-).

NightLight, Ovalight, External Alarm on ADOR Battery

Consider the current consumption from ADOR's battery. If you use ADOR's battery for these devices, you might have to keep the battery charged via solar or charger. Connect between **MAIN CONNECTOR** pin 5 & 6. This applies nominal 6 volts out Aux+ (pin 5) all the time, and Aux- (pin 6) switches to Battery Negative (-) when the output is ON. Note that this draws current from the battery and you may want to use a separate power source for some devices. The solid state switch to Battery Negative (-), on pin 6, is capable of sinking 100mA, thereby being capable to drive a small DC load. LEDs have polarity, so connect the LED's ANODE (+) side to pin 5 and CATHODE (flat rim on LED) to pin 6, and make sure the LED has a series resistor or add one of your own. The NightLight and External Alarm can be a simple LED and resistor. The External Alarm LED could be mounted where it can be seen from your house to warn you of a stuck door or low battery.

NightLight, Ovalight, External Alarm on External DC Power Supply

An External DC Power Supply can be used to power a device where the External DC Power Supply Negative (-) is electrically connected to the ADOR Battery Negative (-). The negative can be captured directly from the ADOR battery terminal or use **AUXILIARY CONNECTOR** pin 6. Instead of using **MAIN CONNECTOR** pin 5 for DC +, the separate power supply provides the + voltage. The DC voltage of the External DC Power Supply can be lower than 6V up to 24 volts but the current must be < 100mA.

Using External Isolated Power Supply

A relay coil attached to the Aux switch can be used switch a contact that controls a separate and isolated AC circuit, such as lights for OvaLight.