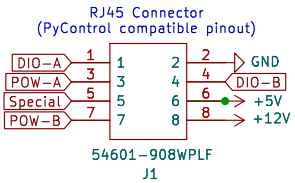
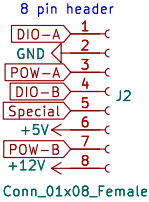
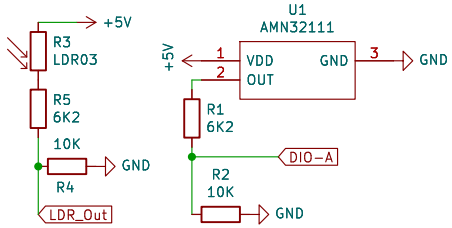
Input/Output:





An 8 pin header was included to extend functionality when used with PyControl.
This facilitates use of PCB as breakout and additional of additional functions.
E.g indicator LEDs, switches, I2C sensors, I2C display for monitoring tasks etc.

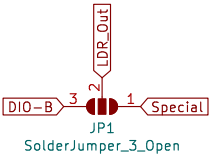
Sensing Circuit



Outputs from LDR and PIR sensor reduced to 3V via voltage dividers to ensure compatability with 3.3V logic/DACs.

For higher output the 6k2 resistors can be replaced with a lower value.

User Jumper



This has been left open to facilitate use of the PCB as a generic PyControl breakout.
To use the LDR with the adapted PIR board the jumper should be connected to DIO−B.
For PyControl the user should determine which jumper position is better suited to their needs.

Adapted from Brown LA, Hasan S, Foster RG, Peirson SN.
COMPASS: Continuous Open Mouse Phenotyping of Activity and Sleep Status.
Wellcome Open Res. 2016 Nov 15:1:2. doi: 10.12688/wellcomeopenres.9892.2.
Adapted by: Daniel Titheradge

University of Bristol

Sheet: 1 /1
File: PIR_Board.kicad_sch

Title: PIR Sensor Board / PyControl Interface Board

Size: A5	Date: 2024−06−29	**Rev: 1.0**
KiCad E.D.A. 8.0.4		Id: 1/1