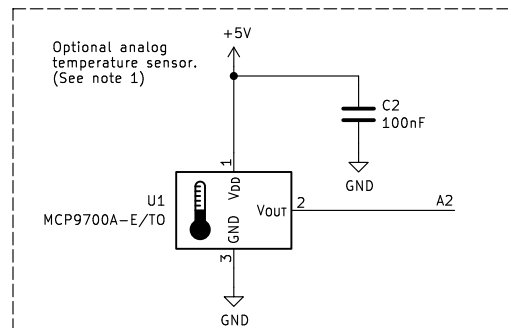
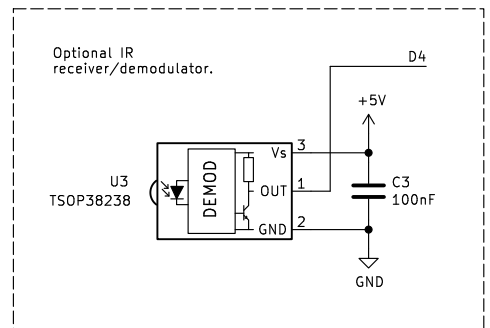


- Notes:
- ARPS can be built in a simplified Educational Starter configuration using all of the components not marked optional. To complete Introductory Activity 5, install optional temperature sensor U1 and capacitor C2. Optional resistors R11-R14 are required to use expansion headers H1-H4.
 - Headers H1-H4 can be bridged with a 4-pin header socket to mount an HC-SR04 SONAR module.
 - The right floor sensor module shares I/O pin A1 with the right line sensor and can only be used when the left line/floor sensor module is configured as a floor sensor by leaving R17 and Q2 unpopulated. When using the left line/floor sensor module as a line sensor with all part installed, the right floor sensor module cannot be used.
 - The microcontroller used in Arduino UNO R4 has lower per-pin output current than Arduino Uno R3. Resistors R15 and R18 limit the LED current to a safe value but may require the phototransistors to be read using analogRead(). For Arduino UNO R3 ONLY, R15 and R18 can be replaced with 100 ohm resistors enabling phototransistors to be read using digitalRead().



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