Connectors

VCC

SIG

D2

GND

J1
J3

J2
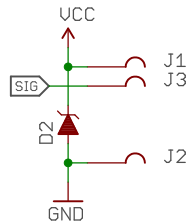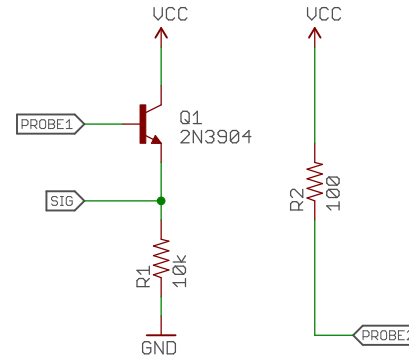
DO NOT POWER CONSTANTLY
It is recommended that you use a digital GPIO pin
on whichever microcontroller or IC you're using to
control the sensor to power the sensor.

Probe Circuit
VCC: 3.3-5 V

VCC   VCC

PROBE1   Q1
             2N3904

SIG

R1   R2
10k   100

GND   PROBE2

Rod length and spacing were not the most significant variables.
In general you want the probes long enough to reach the moist soil and not so close together that they are likely to touch accidentally.
Keeping them about an inch apart works great.
The big variable is the composition of the soil itself (especially salts), so ideally you would calibrate for each type of soil.
-Rob Faludi

Based off the Soil Moisture Circuit found at: http://www.faludi.com/2006/11/02/moisture-sensor-circuit/

PCB design inspired by the Soil Moisture Sensor from DFRobot
http://www.dfrobot.com/index.php?route=product/product&product_id=599

TITLE: SparkFun_Soil_Moisture_Sensor

Design by: Joel Bartlett
Revision By: Andy England

REV:
v10

Date: 6/6/2019 7:31 PM

Sheet: 1/1

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