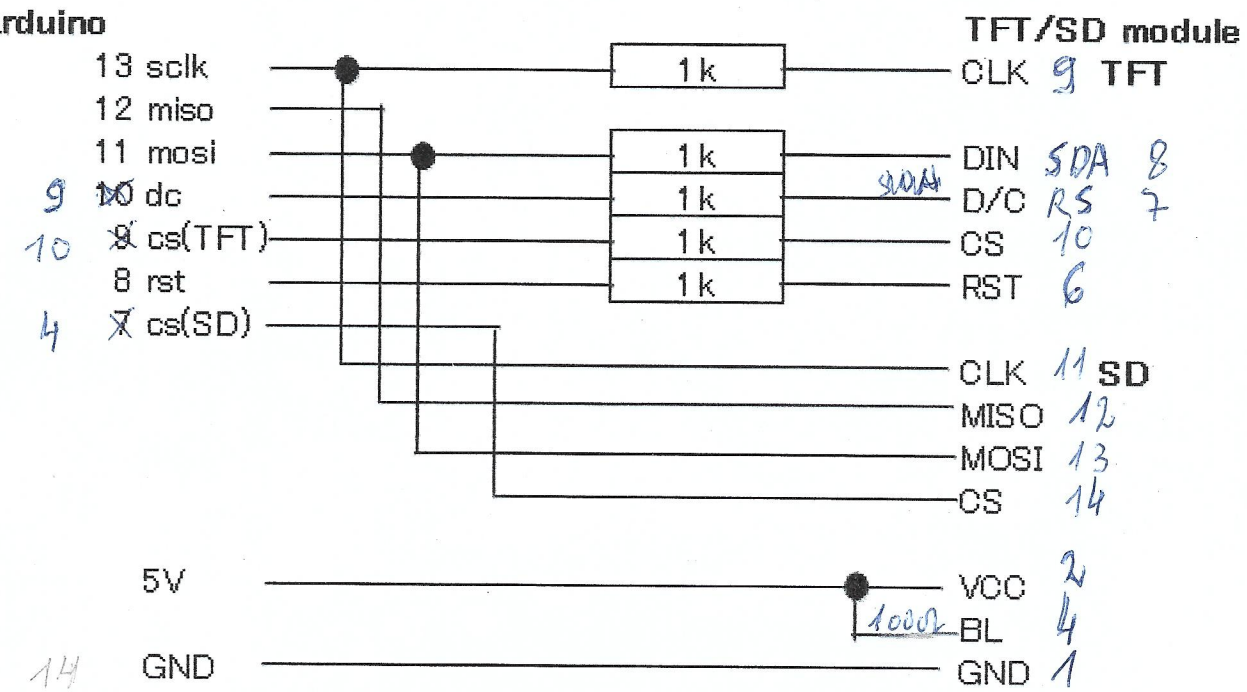
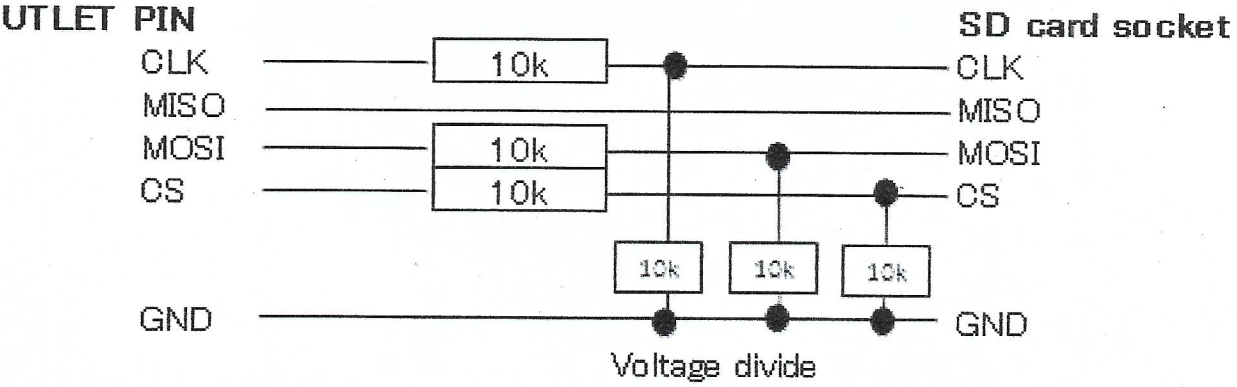
Arduino to TFT/SD module shield circuit



TFT/SD module

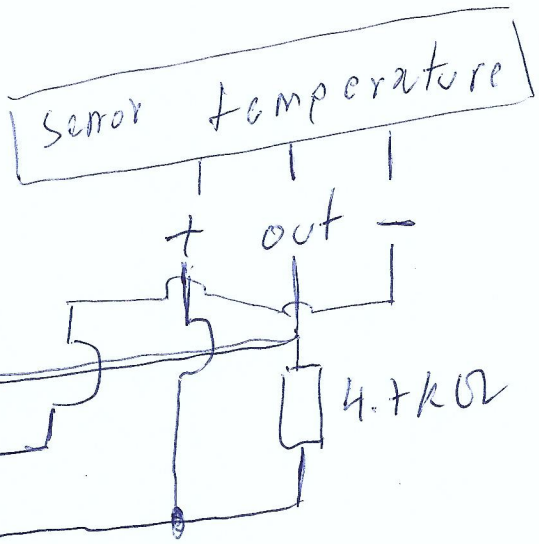


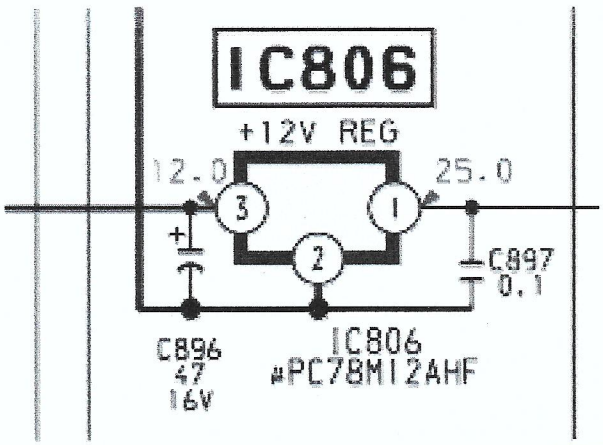
3 5 6 Pin Arduino

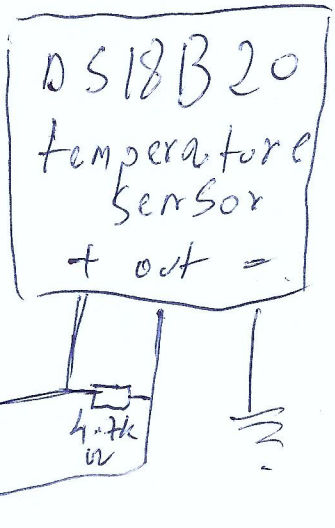
GND

moisture sensor YL-69

arduino
A0 → ~~Analog~~ analog pin
D0 → digital pin
GND → Gnd
Vcc → 5V



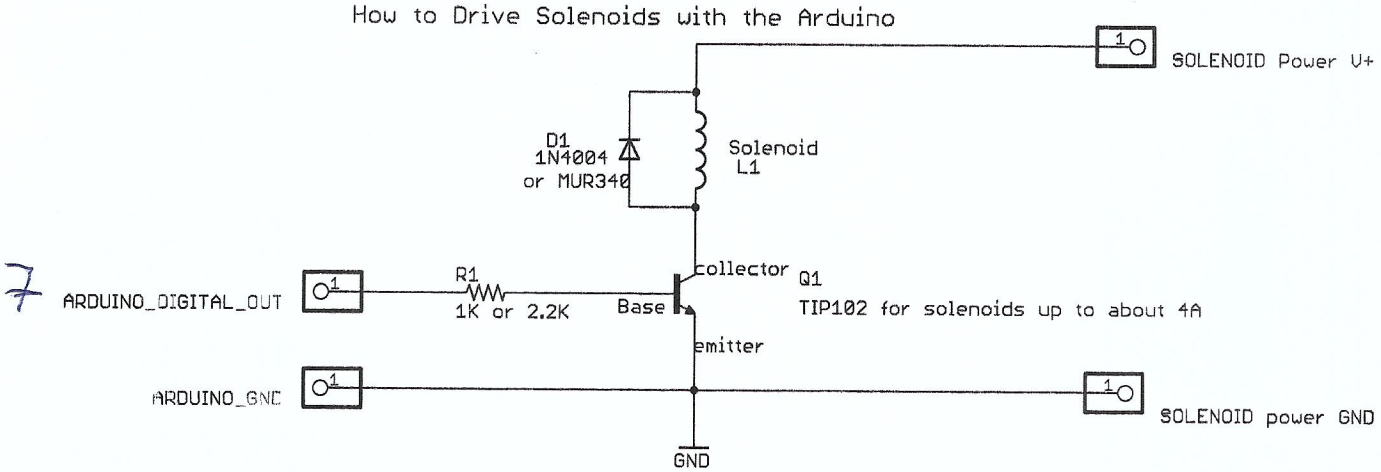




Light Intensity Sensor - 5528

arduino
~~SIG~~ A1 SIG
Vcc VCC 5V
GND GND

How to Drive Solenoids with the Arduino

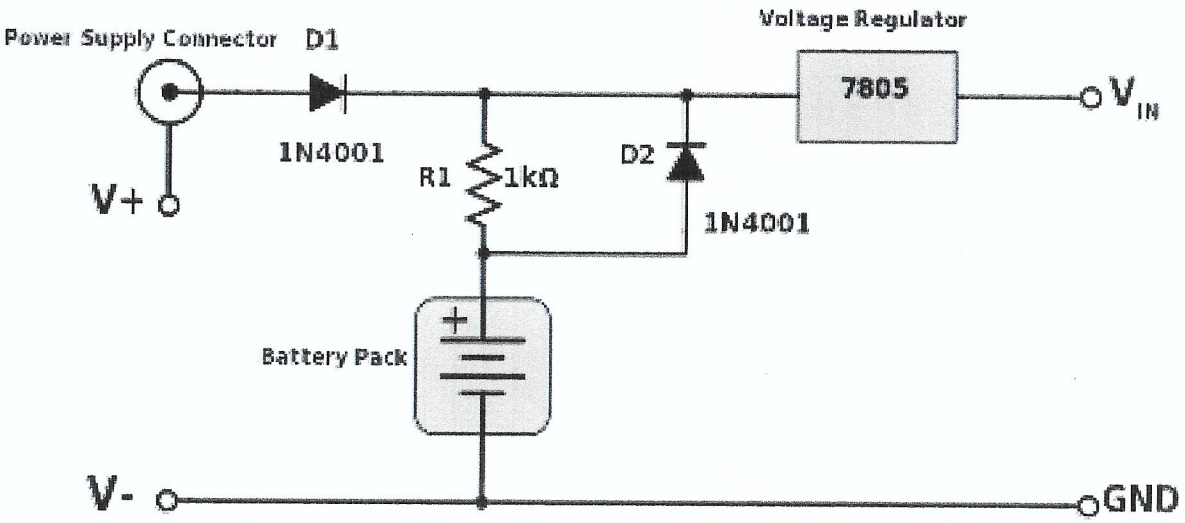


Notes:

-- you will most likely need a heat sink on the transistor.

-- This diagram is for DC solenoids rated up to about 24W: i.e. 12V@2A, 6V@4A, 24V@1A etc.

-- The protection diode should preferable be a schottky type, which has better response times. Something like a MUR340 is good for loads up to 3A.


Power Supply Connector
D1
Voltage Regulator
7805
V_{IN}
1N4001
R1
1kΩ
D2
1N4001
V+
Battery Pack
V-
GND