

AC Zero-Cross Detector

HTR_SIG/D3

R3 100

U4 FODM3053

GND

R4 1k

AC/L-F

AC/L

U5 T25

HTR/L

HTR/L 1*2 1

JMP-1-QUICK HTR/L

AC/N 1*2 1

JMP-1-QUICK HTR/N

The schematic diagram illustrates an AC/DC Converter circuit. It features a central component U1, labeled VSK-S5, which has four pins: 1 (AC-N VO-), 2 (AC-L VO+), 3, and 4. Pin 1 is connected to a terminal labeled AC/N JMP-1-QUICK. Pin 2 is connected to a terminal labeled AC/L JMP-1-QUICK. A fuse F1, rated 250V/1A, is connected between pins 2 and 3. Pin 3 is connected to a terminal labeled VIN. Pin 4 is connected to a terminal labeled GND. Two capacitors, C1 (220u) and C2 (1u), are connected in parallel between pins 3 and 4. The diagram also includes labels for the input and output voltages: AC/L and AC/N.

The diagram illustrates the pin configurations for the Arduino Uno R3, showing four main pin headers: POWER, AIO, DIO-H, and DIO-L.

POWER Header (8 pins):

- Pin 1: GND
- Pin 2: GND
- Pin 3: IOREF
- Pin 4: RESET
- Pin 5: +3V3
- Pin 6: +5V
- Pin 7: GND
- Pin 8: VIN

AIO Header (6 pins):

- Pin 1: A0
- Pin 2: A1
- Pin 3: A2
- Pin 4: A3
- Pin 5: A4
- Pin 6: A5

DIO-H Header (10 pins):

- Pin 1: SCL
- Pin 2: SDA
- Pin 3: AREF
- Pin 4: GND
- Pin 5: SCLK/D13
- Pin 6: MISO/D12
- Pin 7: MOSI/D11
- Pin 8: TCS_CS/D10
- Pin 9: D9
- Pin 10: D8

DIO-L Header (8 pins):

- Pin 1: D7
- Pin 2: D6
- Pin 3: D5
- Pin 4: D4
- Pin 5: HTR_SIG/D3
- Pin 6: AC_ZC/D2
- Pin 7: D1
- Pin 8: D0

[illegible]