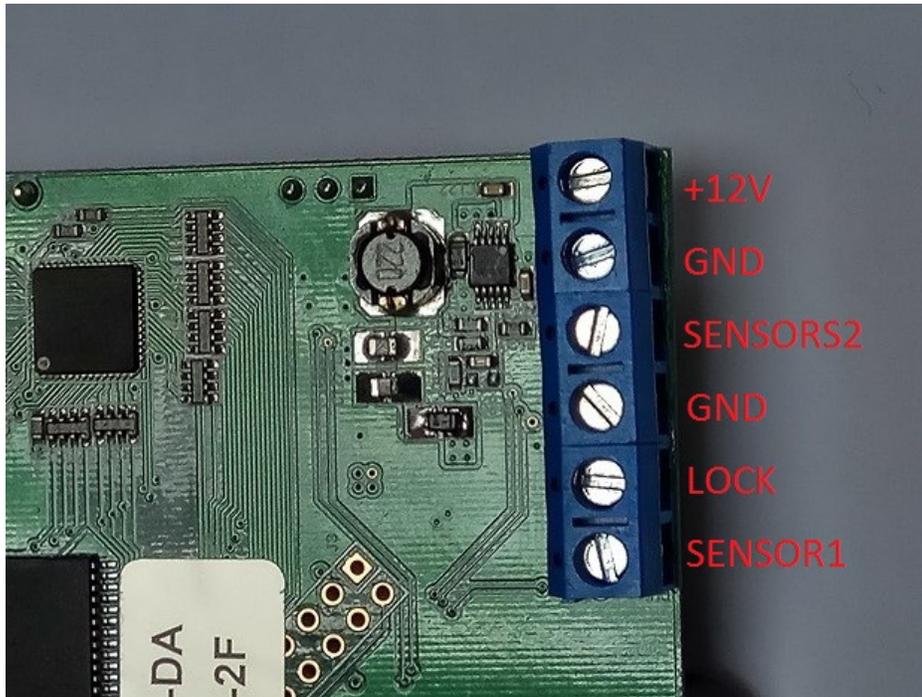


### Screw Channels:



#### **+12V:**

It is for input power supply to the FS84. If +12V is supplied, please do NOT supply power to +5V pin of UART/ RS232 Port.

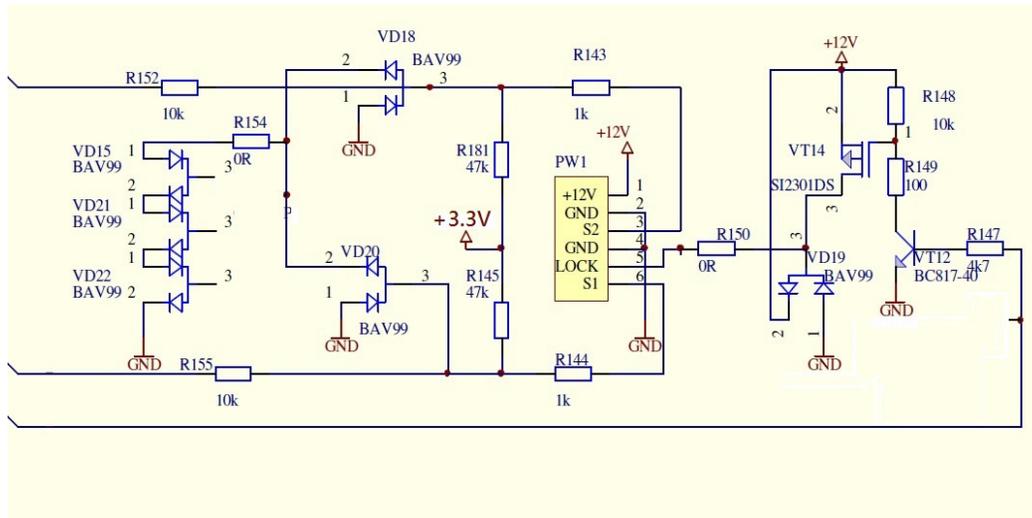
#### **SENSOR 1 and SENSOR 2:**

The input channels, "SENSOR 1" and "SENSOR 2" are pulled high to 3.3V. They are used to connect to a switch to either open circuit or short to the ground. You should either let them open circuit or short them to the ground. If you want to apply voltage to it, you may apply 3.3V or 0V to set its state to high or low. Please refer to the circuit diagram 1 shown below.

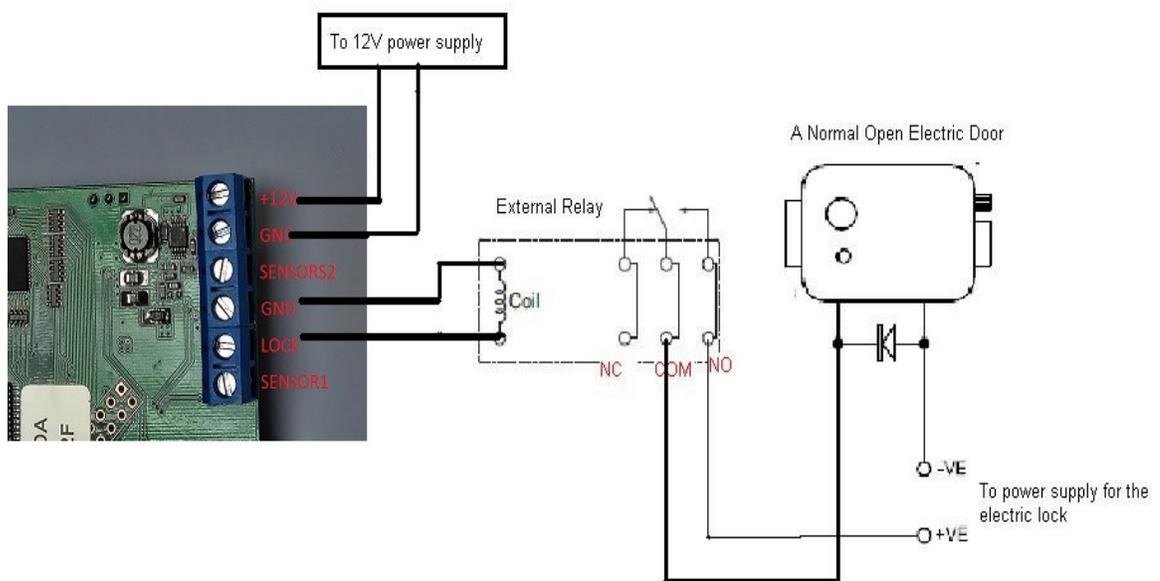
#### **LOCK:**

It is an output channel with two states, 12V or High Impedance. The maximum current can be draw is 1A. Please refer to the circuit diagram 1 shown below. Please note that the LOCK output will NOT work unless +12V is connected. There is neither relay nor protection circuit connecting to LOCK channel inside FS84. You need to add a protection circuit and a relay to the LOCK channel externally.

Internal circuit diagram 1 of FS84:



The Lock channel can be connected to an external relay to control a electric door. Please refer to the diagram shown below:



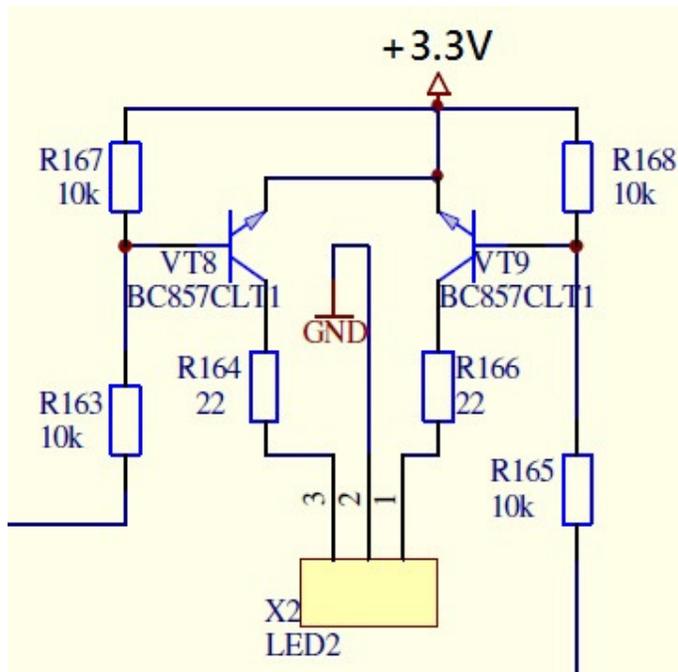
## LED PINS:



Both LED1 and LED2 are output channels. When turned on, the voltage is +3.3V. When they are turned off, the pins are in High Impedance.

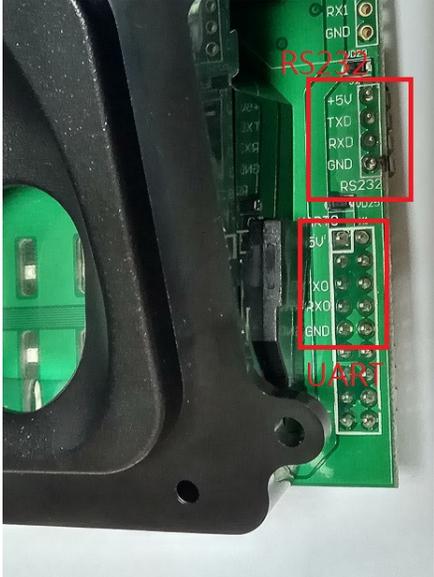
Please refer to the circuit diagram 2 below:

Internal circuit diagram 2 of FS84:



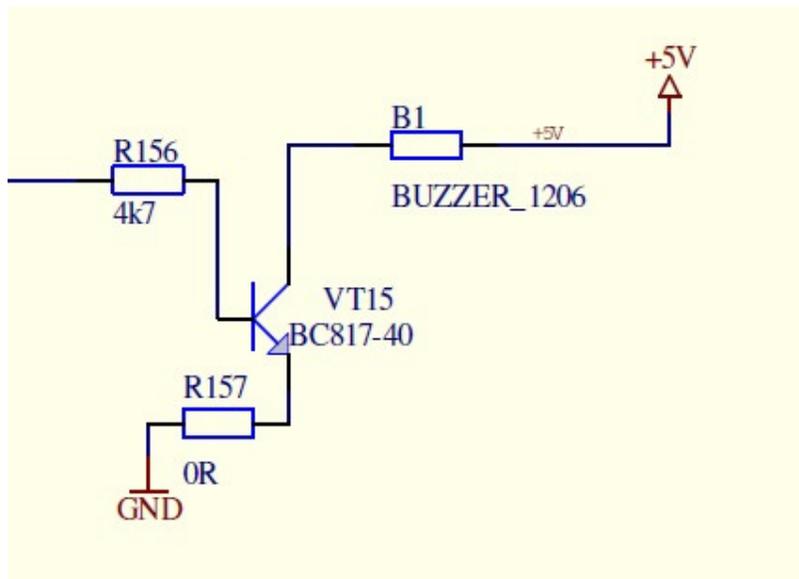
### RS232 and UART Port:

FS84 provide RS232 port for connecting PC and UART for connecting MCU host. Note when there is +12V power supply to the FS84, please do NOT supply power to +5V pin of UART/ RS232 Port.



### Buzzer:

There is a buzzer built in. The schematic for connecting buzzer is shown below:



**FS84 does NOT support PoE (Power over Ethernet).**