



Frigo

VDD  
DQ  
GND  
**DS18B20**

VSS  
VDD  
V0  
RS  
R/W  
E  
DB0  
DB1  
DB2  
DB3  
DB4  
DB5  
DB6  
DB7  
LED+  
LED-

**LCD screen**

R1  
4.7kΩ  
±5%

LCM1602 IIC2  
LCM1602 IIC

11 12  
10 13  
9 14  
8 15  
7 16  
6 17  
5 18  
4 19  
3 20  
2 21  
1 22

**LCM1602 IIC**

GPIO2 SD\_A1 I2C  
GPIO3 SCL1 I2C  
GPIO4  
GPIO17 ID\_SC I2C ID EEPROM  
GPIO22  
GPIO10 SPI0\_MOSI  
GPIO9 SPI0\_MISO  
GPIO11 SPI0\_SCK  
GPIO11 SD\_I2C ID EEPROM  
GPIO5  
GPIO6  
GPIO13  
GPIO19  
GPIO26

GPIO20  
GPIO16  
GPIO12  
GPIO7 SPI0\_CEL\_N  
GPIO8 SPI0\_CEL\_N  
GPIO25  
GPIO24  
GPIO23  
GPIO18 PCM\_CLK  
GPIO15 UART0\_RXD  
GPIO14 UART0\_TXD

**Raspberry Pi 3  
Model B v1.2**

GND VCC 4  
GND VCC 3  
GND VCC 2  
GND VCC 1

**MB-V2  
Power Supply  
Breadboard  
YwRobot**

Vcc  
DO/RX  
CK/TX  
E+  
E-  
Gnd

**HX711  
Module**

R5 220Ω  
R6 220Ω  
R7 220Ω

R3 220Ω  
R4 220Ω

R1 220Ω  
R2 220Ω

**7 Segment 4 Digit Display1  
5461BS - 5462BS**

7 SEGMENT  
COMMON CATHODE  
4DIGIT

TX\_LV  
TX2\_LV  
RX2\_HV  
RX\_LV

**Logic Level Converter**

RESET  
RESET2  
AREF  
Iref  
A0  
A1  
A2  
A3  
A4/SDA  
A5/SCL  
N/C

DD/RX  
D1/TX  
D2  
D3 PWM  
D4  
D5 PWM  
D6 PWM  
D7  
D8  
D9 PWM  
D10 PWM/SS  
D11 PWM/MOSI  
D12/MISO  
D13/SCS

**Arduino Uno  
(Rev3)**

KY-019  
VCC  
GND  
NO  
NC  
NC

**Relay**

VCC  
RST  
GND  
MISO  
MOSI  
SCK  
NCS  
IRQ

**RFID RC522**

S1

R2  
470Ω  
±5%