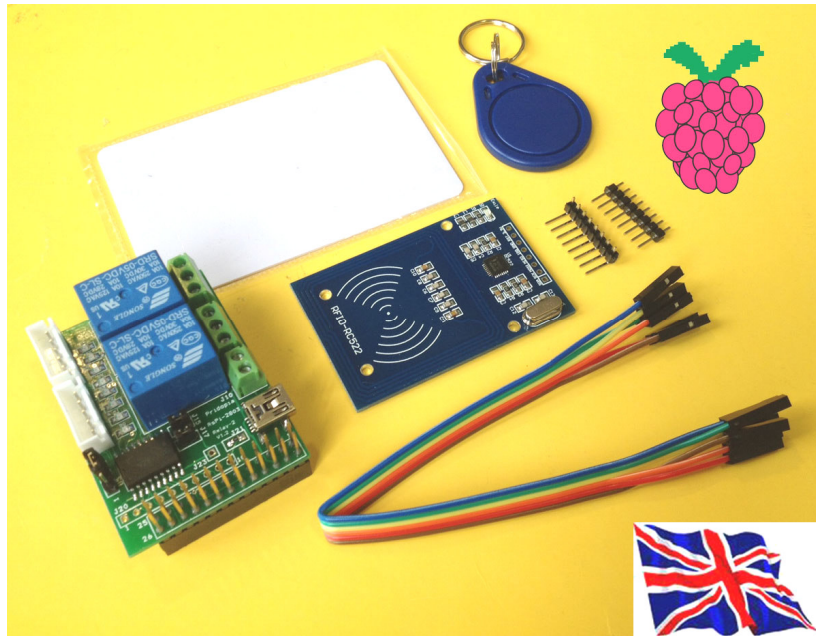
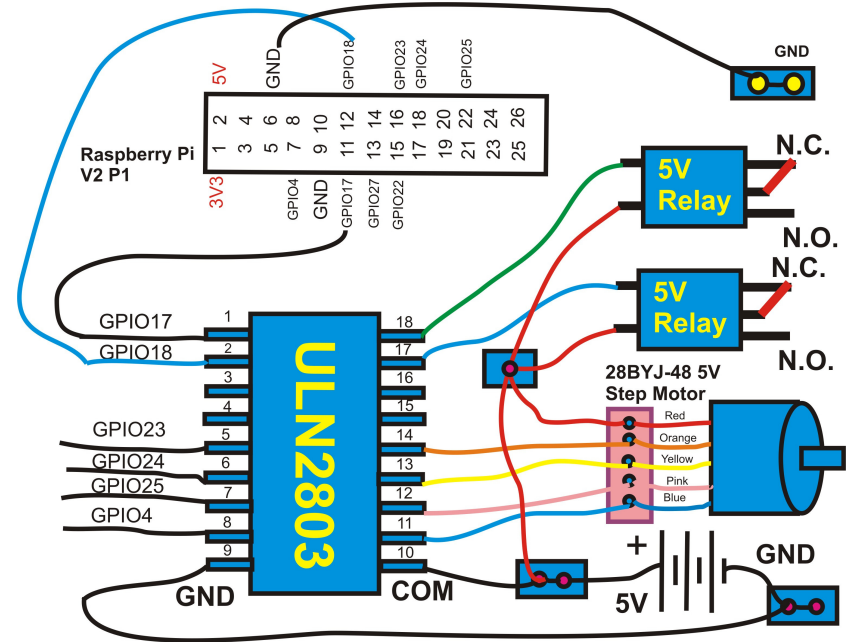
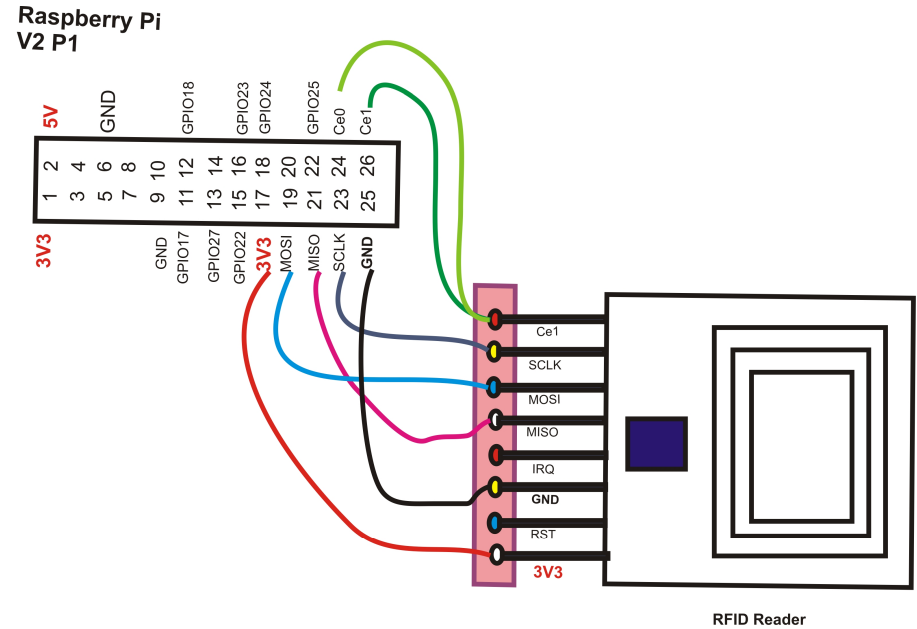


RFID Module & Relay –StepMotor Board



MF RC522 is applied to the highly integrated read and write 13.56MHz contactless communication card chip
 Low-voltage, low-cost, small size of the non-contact card chip to read and write
 Smart meters and portable handheld devices developed better choice
 The MF RC522 use of advanced modulation and demodulation concept completely integrated
 in all types of 13.56MHz passive contactless communication methods and protocols
 14443A compatible transponder signals
 The digital part of to handle the ISO14443A frames and error detection.
 support rapid CRYPTO1 encryption algorithm, terminology validation MIFARE products
 MFRC522 support MIFARE series of high-speed non-contact communication, two-way data
 transmission rate up to 424kbit/s



software support

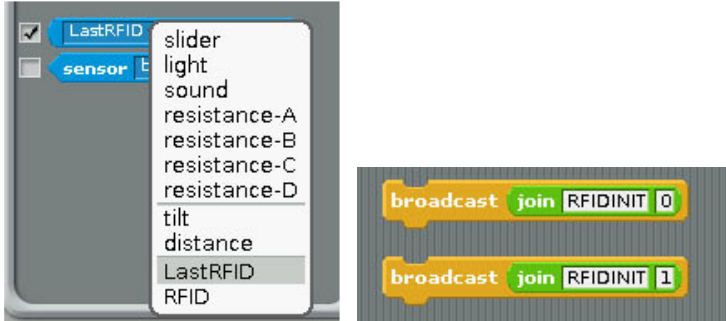
Pi_Scratch interface software download from our web site

<http://www.pridopia.co.uk/rs-pi-set-scratch.html>

Install tools for RFID kit in Raspberry Pi , in our Pi_Scratch_v268 folder" Installer"

sudo python RFID-Installer.py -- if you already install previous Pi_Scratch ver already. first time user, use **sudo python Install.py**

Scratch control demo

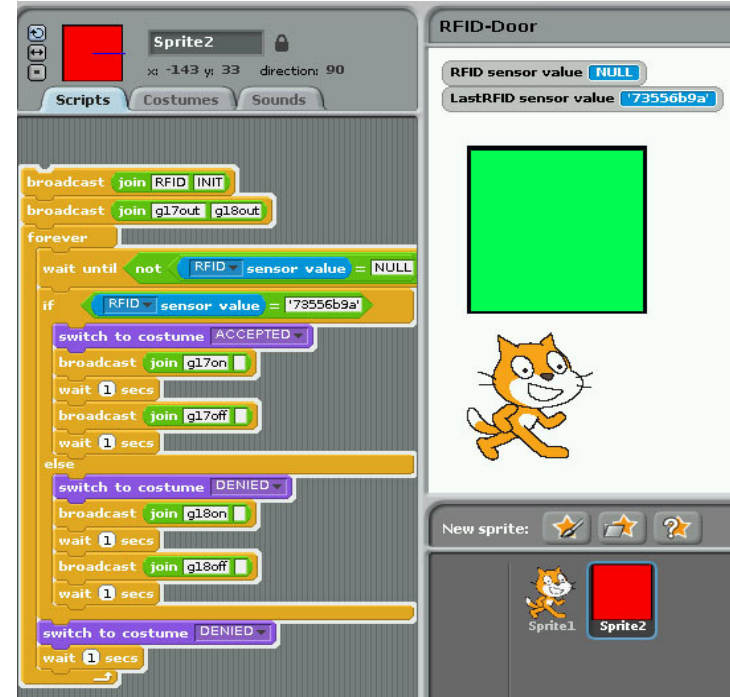
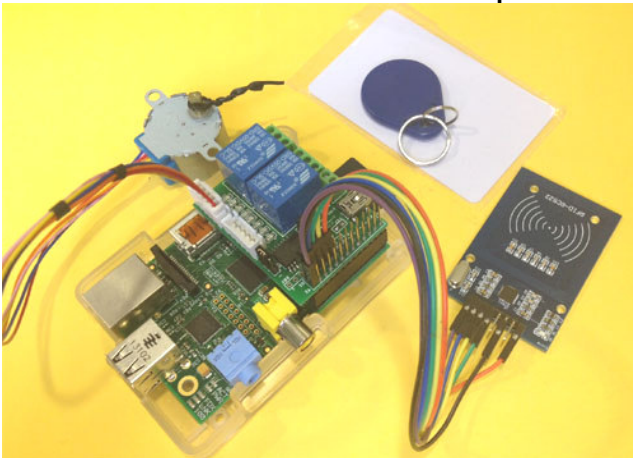


1) Command "RFID"+"INIT"+"0" or "1"

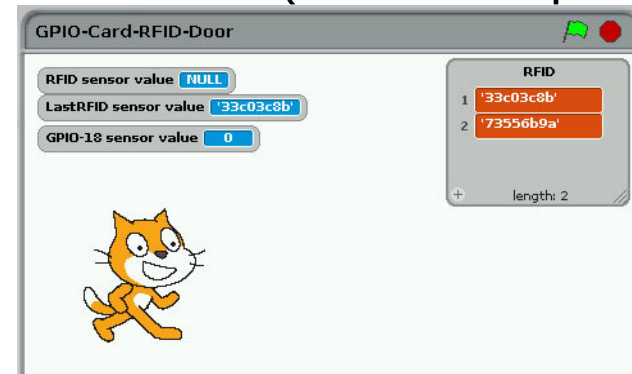
will initial SPI signal to active RFID Reader

2) you will see "LastRFID" & "RFID" in Sensors

Scratch demo read RFID and GPIO output

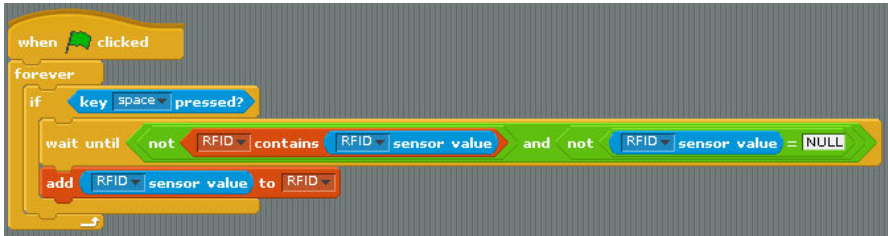


scratch demo code (read card and compare with database)

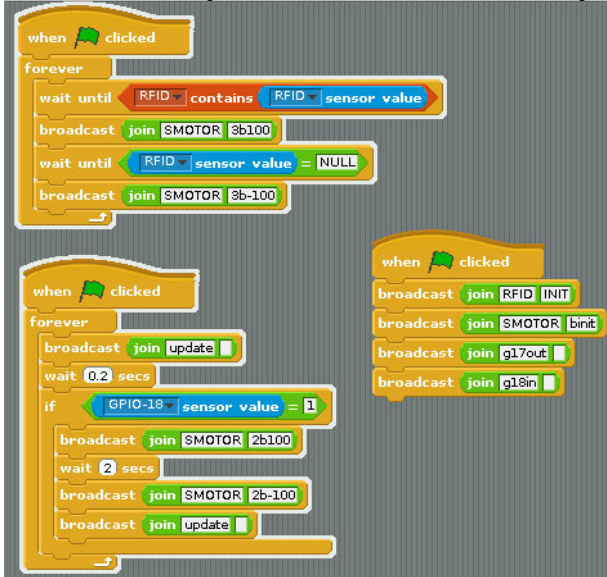


ADD RFID Card into data base

Press "space" key then scan your RFID card



Active with Step Motor and GPIO Switch input



scratch demo file

[RFID Door.sb](#) [RFID Reader.sb](#) [GPIO-Card-RFID-Door.sb](#)

Download GPIO library

<https://pypi.python.org/pypi/RPi.GPIO> GPIO library

GPIO library - RPi.GPIO-0.5.6.tar.gz

Install python , library and run the test program

```
# sudo apt-get install python-dev
# wget http://www.pridopia.co.uk/pi-pgm/RPi.GPIO-0.5.6.tar.gz
# gunzip RPi.GPIO-0.5.6.tar.gz
# tar -xvf RPi.GPIO-0.5.6.tar
# cd RPi.GPIO-0.5.6
```

```
# sudo python setup.py install
```

Demo program download from our web site
<http://www.pridopia.co.uk/pi-rfid-reader.html>

Step Motor & Relay demo program
<http://www.pridopia.co.uk/pi-2803-step.html>

Package Content

- 1x Rs-Pi RFID Reader
- 6x 20cm male to male cable
- 1x S50 Fudan Card 1x Key Chains
- 1x 2 Relay Step Motor GPIO Board
- 1x manual

