Basic Raspberry Pi Control Interface Circuits

DC Power
+5V

0V

Raspberry Pi
(Pull Up)
GPIO Pin

0V

On / Off Waveform

Raspberry Pi
(Pull Down)
GPIO Pin

+5Vdc power

DC Common
0Vdc

+5Vdc power

Red   GPIO #22

Green   **GPIO #27**

Blue   GPIO #17

RPi Gnd

Red   GPIO #22

Green   **GPIO #27**

Blue   GPIO #17

RPi +3.3Vdc