

MicroStart Start Module

1/2

Start and finish at same time!

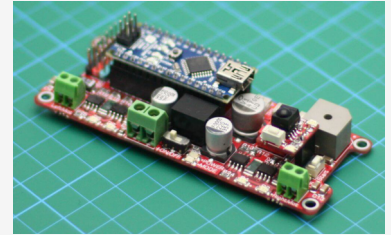
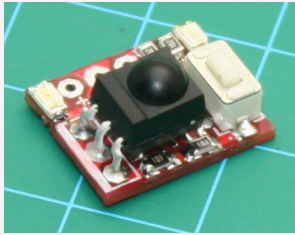
3 Button Recording: Release, Start, Stop

Easy to use start module for mini sumo robots, sumo robots. You can use any three buttons of Sony remote with Microstart. (Release, Start, Stop) For signal output, you need to save remote signals to module first.

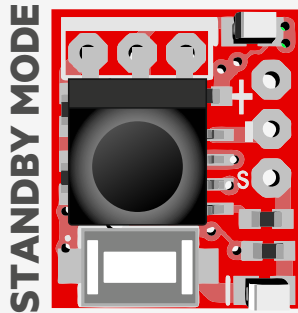
For passing to recording mode, you need to press 1 second (long push) to Microstart's white button.

Microstart works with 5V and 3.3V, fully compatible with Arduino, PSOC, mbed, Renesas & Pic circuits.

Designed by Jsumo for robot makers!



Open Mode (Ready to Signal Accept)



STANDBY MODE

+5V

GND (-)

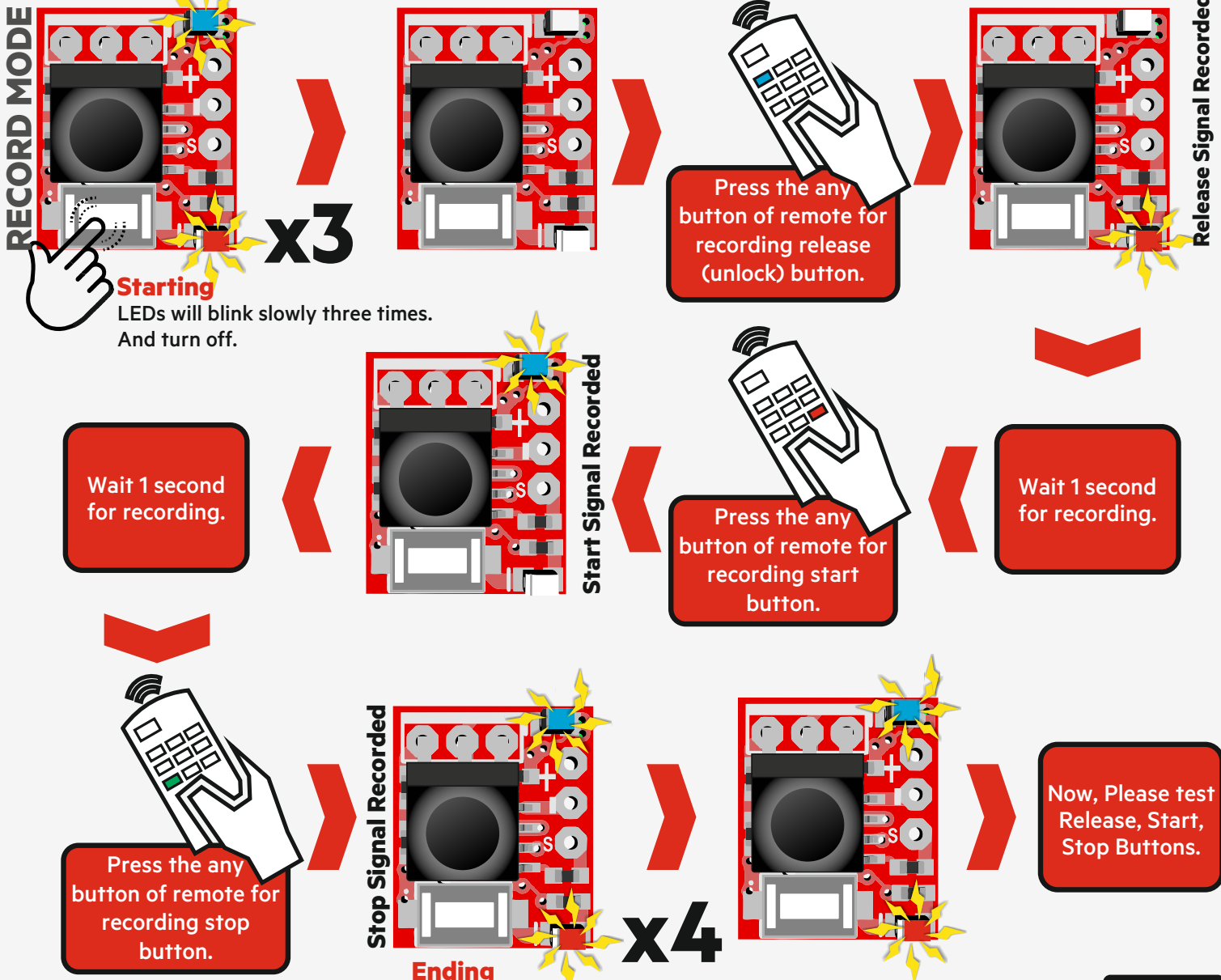
Signal

At open mode, Microstart waits for pushing remote's (release) unlock button. At that state both leds turn off. When you push the release button of remote, signal output of remote will stay on 0V when you push the start button signal go from 0V to 5V (Logic 1) and it will stay at that situation. And blue led lights. When you push the stop button, signal output will go from 5V to 0V (Logic 0) and red led will light.



Easy to use.
Works with All
Sony Remotes!

Recording Mode (Press to the white button 1 second)



LEDs will blink fastly four times and both red, blue LED will turn off.

MicroStart Start Module

2/2

Start and finish at same time!

Recording mode starts with pressing the white button (3 times blinking of LEDs) and finishes with recording the stop button. When process finished release (unlock), start & stop buttons recorded to Microstart Module. The signal datas are saved to module's memory. You don't need to record everytime. But please test yourself again, the remote buttons for to be sure.

Errata of Microstart

Parallax issue at recording: IR detector can record false reflected, superposition of signals.

Please test after recording about true signal is recorded or not.

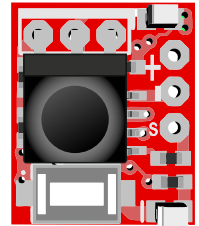
IR Saturation: This can happen from strong IR sources like tungsten, halogen lamps or direct sunlight.

Also IR saturation can occur by other robot's IR sensors. We suggest insulating module's sides with tape or plastic case. With that Only top face will be open to IR beams.

Standby Mode // Both Leds Off, Steady Mode.

5V

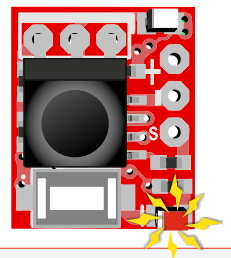
0V



Release Button Pushed // Red Led Turn on

5V

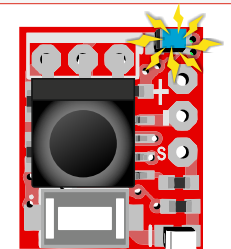
0V



Start Button Pushed // Blue Led Turn On, Red Turn off.

5V

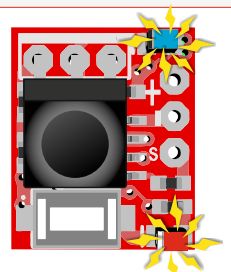
0V



Stop Button Pushed // Both Leds BLINK * * * *

5V

0V



*After stop you need to reapply voltage.

Technical Data

Working Voltage: 3.3V to 5V

Current: 3ma

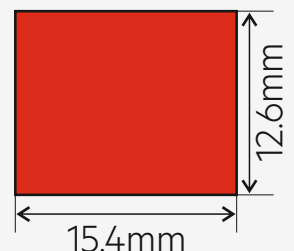
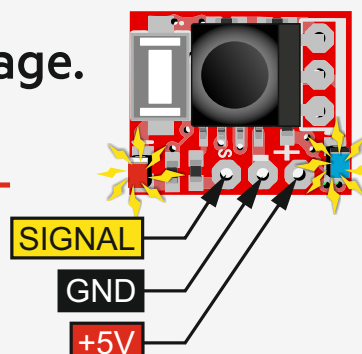
Output Signal: Digital, Logic 0 & 1

Current limited with 1K resistor in series.

LEDs: Blue (Start Led), Red (Stop Led)

Size: 12.6mm x 15.4mm x 8mm

Weight: 2 Grams



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