

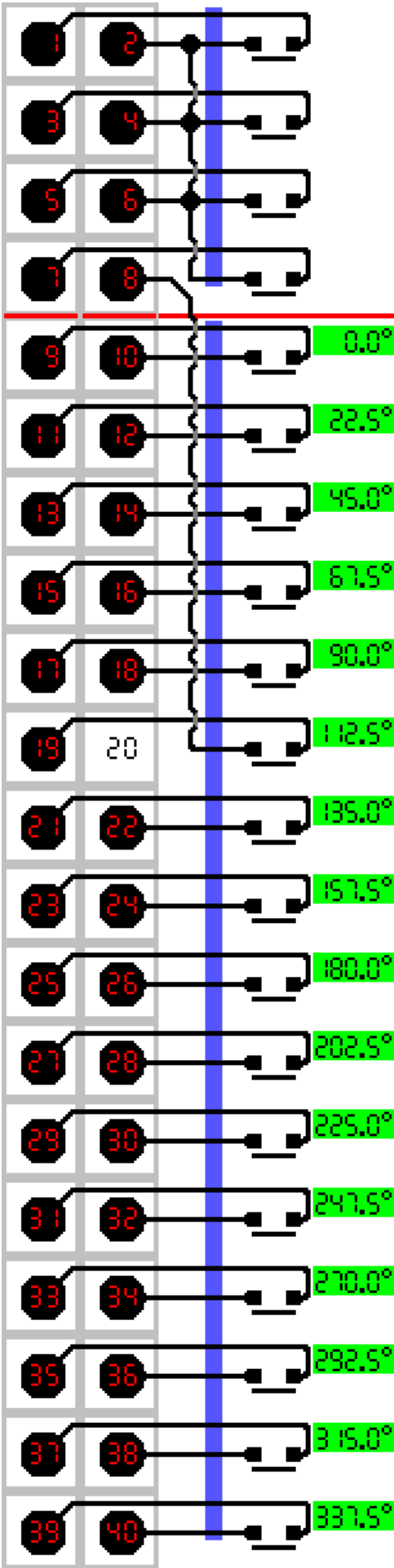
# Connector pinouts

Notice: The pinout is for looking down on the pin headers. You need to mirror the pinout to match the cable.

## Raspberry Pi to board

Function	RPi pin	RPi pin	PATA pin	RPi pin	RPi pin	Function
No pin	No pin	No pin	1 ■ ■ 2	No pin	No pin	No pin
No pin	No pin	No pin	3 ■ ■ 4	No pin	No pin	No pin
No pin	No pin	No pin	5 ■ ■ 6	No pin	No pin	No pin
No pin	No pin	No pin	7 ■ ■ 8	No pin	No pin	No pin
No pin	No pin	No pin	9 ■ ■ 10	No pin	No pin	No pin
No pin	No pin	No pin	11 ■ ■ 12	No pin	No pin	No pin
No pin	No pin	No pin	13 ■ ■ 14	No pin	No pin	No pin
NC	VDD	1	15 ■ ■ 16	2	5V	NC
VD	GPIO 0	3	17 ■ ■ 18	4	5V	NC
VC	GPIO 1	5	19 ■ 20	6	GND	KEY/ <b>No pin</b>
VB	GPIO 4	7	21 ■ ■ 22	8	GPIO 14	SCAN_0X
GND (VCOM)	GND	9	23 ■ ■ 24	10	GPIO 15	SCAN_1X
VA	GPIO 17	11	25 ■ ■ 26	12	GPIO 18	SCAN_2X
NC	GPIO 21	13	27 ■ ■ 28	14	GND	NC
NC	GPIO 22	15	29 ■ ■ 30	16	GPIO 23	PROBE_X3
VDD (TEMP)	VDD	17	31 ■ ■ 32	18	GPIO 24	PROBE_X0
NC	GPIO 10	19	33 ■ ■ 34	20	GND	NC
TEMP	GPIO 9	21	35 ■ ■ 36	22	GPIO 25	PROBE_X1
NC	GPIO 11	23	37 ■ ■ 38	24	GPIO 8	PROBE_X2
GND (TEMP)	GND	25	39 ■ ■ 40	26	GPIO 7	SCAN_3X

# Board to switches



It's a single plug with a split cable. The blue lines represent the ribbon cables coming from the connector. The rewiring is done in the plug to simplify wiring the ribbon cables to the reed switches.

Wire	PATA pin	Wire
VA	1 ■ ■ 2	VCOM (GND) *
VB	3 ■ ■ 4	VCOM (GND) *
VC	5 ■ ■ 6	VCOM (GND) *
VD	7 ■ ■ 8	P5B *
P0A	9 ■ ■ 10	P0B
P1A	11 ■ ■ 12	P1B
P2A	13 ■ ■ 14	P2B
P3A	15 ■ ■ 16	P3B
P4A	17 ■ ■ 18	P4B
P5A	19 ■ 20	KEY/No pin/P5B *
P6A	21 ■ ■ 22	P6B
P7A	23 ■ ■ 24	P7B
P8A	25 ■ ■ 26	P8B
P9A	27 ■ ■ 28	P9B
P10A	29 ■ ■ 30	P10B
P11A	31 ■ ■ 32	P11B
P12A	33 ■ ■ 34	P12B
P13A	35 ■ ■ 36	P13B
P14A	37 ■ ■ 38	P14B
P15A	39 ■ ■ 40	P15B

\* P5B is duplicated due to the key. There are only three VCOM (common for VA, VB, VC, and VD).

## Switches

Wire A	Wire B	Function
VA	VCOM	Wind velocity
VB	VCOM	Wind velocity
VC	VCOM	Wind velocity
VD	VCOM	Wind velocity
P0A	P0B	Wind direction 0°
P1A	P1B	Wind direction 22.5°
P2A	P2B	Wind direction 45°
P3A	P3B	Wind direction 67.5°
P4A	P4B	Wind direction 90°
P5A	P5B	Wind direction 112.5°
P6A	P6B	Wind direction 135°
P7A	P8B	Wind direction 157.5°
P8A	P8B	Wind direction 180°
P9A	P9B	Wind direction 202.5°
P10A	P10B	Wind direction 225°
P11A	P11B	Wind direction 247.5°
P12A	P12B	Wind direction 270°
P13A	P13B	Wind direction 292.5°
P14A	P14B	Wind direction 315°
P15A	P15B	Wind direction 337.5°