

## Cable list - FROM/TO listing

CABLE ID / CABLE COLOR	FROM	TO	NOTES
<b>INTERNAL WIRING</b>			
RED	POWER SUPPLY	TERMINAL BLOCK (15-1)	
BLACK	POWER SUPPLY	TERMINAL BLOCK (13-1)	
RED	TERMINAL BLOCK (15-4)	TERMINAL BLOCK (16-4)	POSITIVE JUMPER
RED	TERMINAL BLOCK (16-3)	RELAY MODULE (Vcc)	
RED	TERMINAL BLOCK (15-3)	USB CABLE (Positive)	Power Raspberry Pi micro USB Connector
BLACK	TERMINAL BLOCK (14-3)	USB CABLE (Negative)	Power Raspberry Pi micro USB Connector
BLACK	TERMINAL BLOCK (13-4)	TERMINAL BLOCK (14-4)	NEGATIVE JUMPER
BLACK	TERMINAL BLOCK (13-3)	RELAY MODULE (GND)	
RED	TERMINAL BLOCK (15-2)	RESISTANCES R1, R2 & R3	
	R1	TERMINAL BLOCK (10-2)	1.2 kohms / 1 W
	R2	TERMINAL BLOCK (11-2)	1.2 kohms / 1 W
	R3	TERMINAL BLOCK (12-2)	1.2 kohms / 1 W
	TERMINAL BLOCK (10-4)	Raspberry Pi 3B+ - Pin 29 (GPIO 5)	
	TERMINAL BLOCK (11-4)	Raspberry Pi 3B+ - Pin 31 (GPIO 6)	
	TERMINAL BLOCK (12-4)	Raspberry Pi 3B+ - Pin 32 (GPIO 12)	
RED	TERMINAL BLOCK (9-4)	RELAY MODULE - Relay K3 - NO	
GREEN	TERMINAL BLOCK (8-4)	RELAY MODULE - Relay K4 - NO	
BLUE	TERMINAL BLOCK (7-3)	RELAY MODULE - Relay K3 - C	
BLUE	TERMINAL BLOCK (7-4)	RELAY MODULE - Relay K4 - C	
RED	TERMINAL BLOCK (6-4)	RELAY MODULE - Relay K5 - NO	
GREEN	TERMINAL BLOCK (5-4)	RELAY MODULE - Relay K6 - NO	
BLUE	TERMINAL BLOCK (4-3)	RELAY MODULE - Relay K5 - C	
BLUE	TERMINAL BLOCK (4-4)	RELAY MODULE - Relay K6 - C	
RED	TERMINAL BLOCK (3-4)	RELAY MODULE - Relay K7 - NO	
GREEN	TERMINAL BLOCK (2-4)	RELAY MODULE - Relay K8 - NO	
BLUE	TERMINAL BLOCK (1-3)	RELAY MODULE - Relay K7 - C	
BLUE	TERMINAL BLOCK (1-4)	RELAY MODULE - Relay K8 - C	
RED	TERMINAL BLOCK (9-2)	PB-3 SW2-3	PUSH BUTTON 3, SWITCH 2, CONTACT 3
GREEN	TERMINAL BLOCK (8-2)	PB-3 SW1-3	PUSH BUTTON 3, SWITCH 1, CONTACT 3
BLUE	TERMINAL BLOCK (7-2)	PB-3 SW1-4	PUSH BUTTON 3, SWITCH 1, CONTACT 4
BLUE	PB-3 SW1-3	PB-3 SW1-4	JUMPER
RED	TERMINAL BLOCK (6-2)	PB-2 SW2-3	PUSH BUTTON 2, SWITCH 2, CONTACT 3
GREEN	TERMINAL BLOCK (5-2)	PB-2 SW1-3	PUSH BUTTON 2, SWITCH 1, CONTACT 3
BLUE	TERMINAL BLOCK (4-2)	PB-2 SW1-4	PUSH BUTTON 2, SWITCH 1, CONTACT 4
BLUE	PB-2 SW1-3	PB-2 SW1-4	JUMPER
RED	TERMINAL BLOCK (3-2)	PB-1 SW2-3	PUSH BUTTON 1, SWITCH 2, CONTACT 3
GREEN	TERMINAL BLOCK (2-2)	PB-1 SW1-3	PUSH BUTTON 1, SWITCH 1, CONTACT 3
BLUE	TERMINAL BLOCK (1-2)	PB-1 SW1-4	PUSH BUTTON 1, SWITCH 1, CONTACT 4

CABLE ID / CABLE COLOR	FROM	TO	NOTES
<b>BLUE</b>	PB-1 SW1-3	PB-1 SW1-4	JUMPER
	Raspberry Pi 3B+ - Pin 40 (GPIO 21)	RELAY MODULE (IN3)	
	Raspberry Pi 3B+ - Pin 37 (GPIO 26)	RELAY MODULE (IN4)	
	Raspberry Pi 3B+ - Pin 38 (GPIO 20)	RELAY MODULE (IN5)	
	Raspberry Pi 3B+ - Pin 35 (GPIO 19)	RELAY MODULE (IN6)	
	Raspberry Pi 3B+ - Pin 36 (GPIO 16)	RELAY MODULE (IN7)	
	Raspberry Pi 3B+ - Pin 33 (GPIO 13)	RELAY MODULE (IN8)	
<b>EXTERNAL WIRING</b>			
<b>BLACK</b>	POWER SUPPLY (L)	(CLIENT) AC 110 - LINE	
<b>WHITE</b>	POWER SUPPLY (N)	(CLIENT) AC 110 - NEUTRO	
<b>GREEN/YELLOW</b>	POWER SUPPLY (GND)	(CLIENT) AC 110 - EARTH	
	TERMINAL BLOCK (1-1)	BOLLARD BOX 1 - GND	
	TERMINAL BLOCK (2-1)	BOLLARD BOX 1 -DOWN	
	TERMINAL BLOCK (3-1)	BOLLARD BOX 1 - UP	
	TERMINAL BLOCK (4-1)	BOLLARD BOX 2 - GND	
	TERMINAL BLOCK (5-1)	BOLLARD BOX 2 -DOWN	
	TERMINAL BLOCK (6-1)	BOLLARD BOX 2 - UP	
	TERMINAL BLOCK (7-1)	BOLLARD BOX 3 - GND	
	TERMINAL BLOCK (8-1)	BOLLARD BOX 3 -DOWN	
	TERMINAL BLOCK (9-1)	BOLLARD BOX 3 - UP	
	TERMINAL BLOCK (10-1)	LIMIT SWITCH DOWN BOLLARD BOX 1	
	TERMINAL BLOCK (11-1)	LIMIT SWITCH DOWN BOLLARD BOX 2	
	TERMINAL BLOCK (12-1)	LIMIT SWITCH DOWN BOLLARD BOX 3	
	TERMINAL BLOCK (14-1)	BOLLARD BOX 1 - LIMIT SWITCH GND	
	TERMINAL BLOCK (14-1)	BOLLARD BOX 2 - LIMIT SWITCH GND	
	TERMINAL BLOCK (14-1)	BOLLARD BOX 3 - LIMIT SWITCH GND	