



Scan for additional information and wiring diagrams.

GTR131

Smart Wi-Fi Opener

Compatible with the following Richmond motors.		
Sliding / Cantilever Motors		
GTR156 & GTR212 ✓	GTR061 & GTR207 ✓	GTR510 ✓
Swing Motors		
GTR099 ✓	GTR058 ✓	GTR062 & GTR078 ✓
GTR500 & GTR501 ✓	GTR502 & GTR503 ✓	
! Compatible with a large range of other manufacturers gate/garage openers !		

Technical Specs:

- **Requires 2.4 GHz Wi-Fi range to the installation location.**
- Operating Platforms: Android / iOS supported.
- Power Supply: 12-24vDC / 12-24vAC
- Wi-Fi: 2.4GHz 802.11 b/g/n
- IP30 rating. Use a weatherproof enclosure outdoors.
- Current draw: 20mA (standby) 50mA (active)
- Relay output: NO (normally open)
- Sensor input: NO (normally open)
- Operating temperature: -10°C to 50°C
- Material: ABS – Weight 42g
- Dimensions: 90mm x 4mm x 25mm
- Connection Cables: 500mm each
 - 2 x Power (Red/Black)
 - 2 x N/O Output (White/Blue)
 - 2 x Sensor Input (Green/Yellow)



Wire Colours and Function

Power		Output Relay (Push Button or O/S/C Circuit)		Sensor Input	
Red	12-24vDC+ or 12-24vAC	White	COM (Push button)	Green	Sensor Input 1
Black	12-24vDC- or 12-24vAC	Blue	O/S/C (Push button)	Yellow	Sensor Input 2

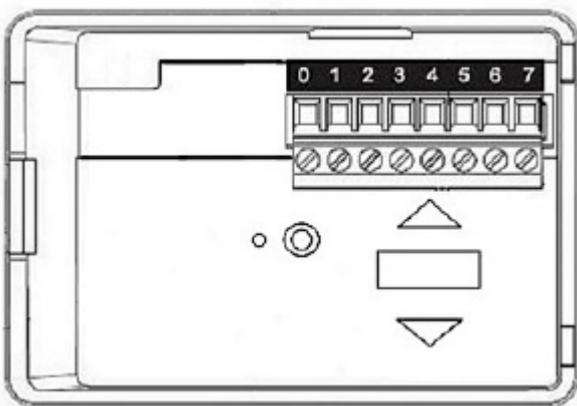


Connecting the GTR131 to a non-Richmond Opener

Below is an example of how the GTR131 Smart Wi-Fi Opener will wire into a non-Richmond opener.

1. To power the Smart Wi-Fi Opener, you will need a 12-volt or 24-volt AC or DC power supply. In the example below, this is sourced via Terminals 0 and 1
2. To operate the gate/garage opener, the Smart Wi-Fi Opener will need to connect into the PC board. Most residential openers will have an input for an external push button. In the example below, terminals 2 & 5 are used for the push button. This will be the input for your Smart Wi-Fi Opener.

For the below example, the GTR131 Smart Wi-Fi Opener would be wired as follows:

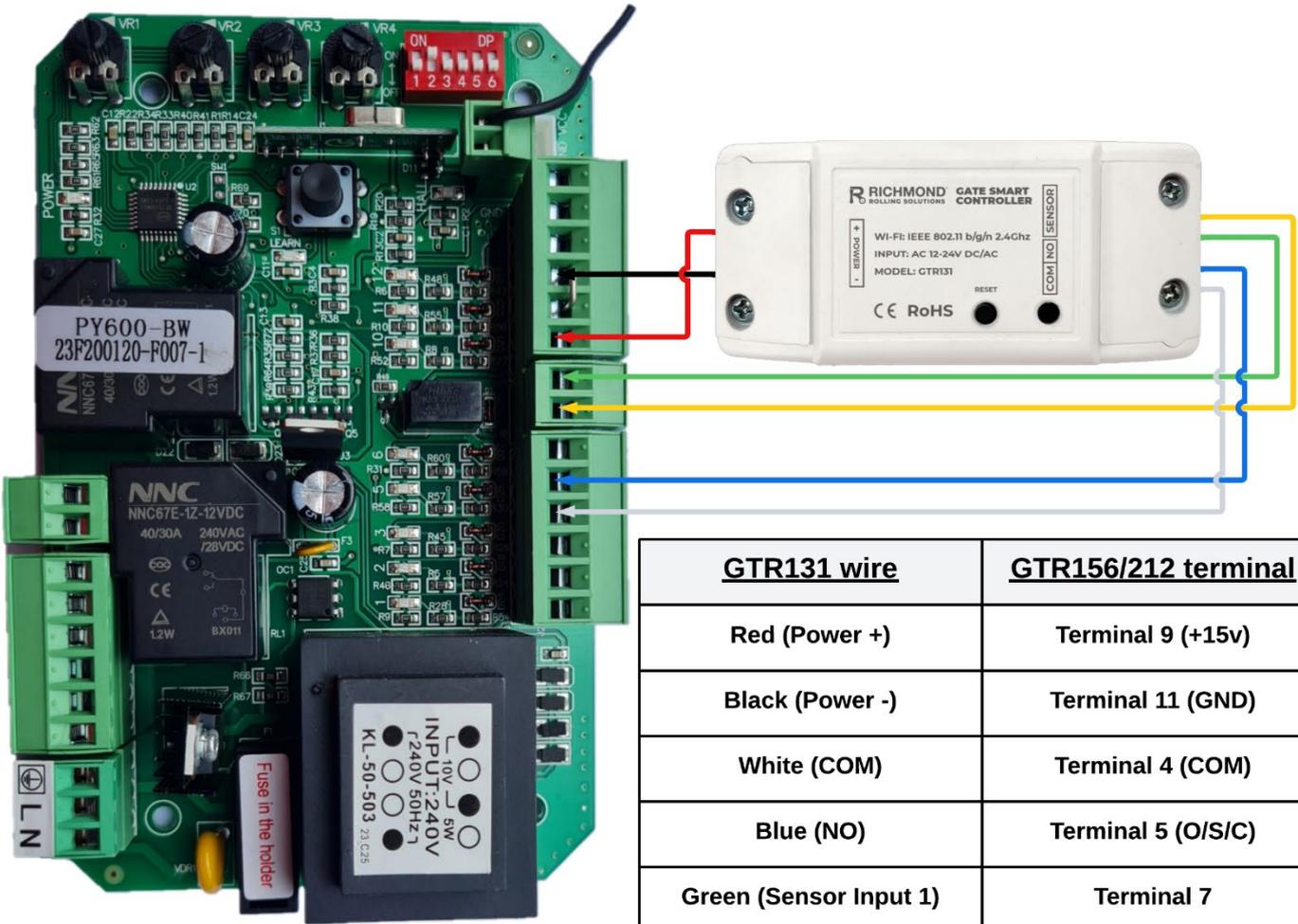


Connection

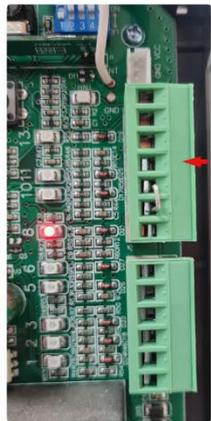
- GTR131 Red into Terminal 1 (24vDC+)
- GTR131 Black into Terminal 0 (24vDC-)
- GTR131 White into Terminal 5 (COM)
- GTR131 Blue into Terminal 2 (O/S/C)

Gate/Garage Automated Opener Terminals		
Terminal	Function	Description
0	Ground	24volt DC Negative
1	24vDC+	24volt DC Positive
2	O/S/C or Open	Dry Contact (Open/Stop/Close)
3	Stop	Dry Contact (Stop)
4	Close	Dry Contact (Close)
5	COM	Dry Contact Common Terminal
6		Not used
7		Not used

GTR156 or GTR212 slide motor connection



<u>GTR131 wire</u>	<u>GTR156/212 terminal</u>
Red (Power +)	Terminal 9 (+15v)
Black (Power -)	Terminal 11 (GND)
White (COM)	Terminal 4 (COM)
Blue (NO)	Terminal 5 (O/S/C)
Green (Sensor Input 1)	Terminal 7
Yellow (sensor Input 2)	Terminal 8
* Do not remove jumper wire between terminals 10 & 11 *	

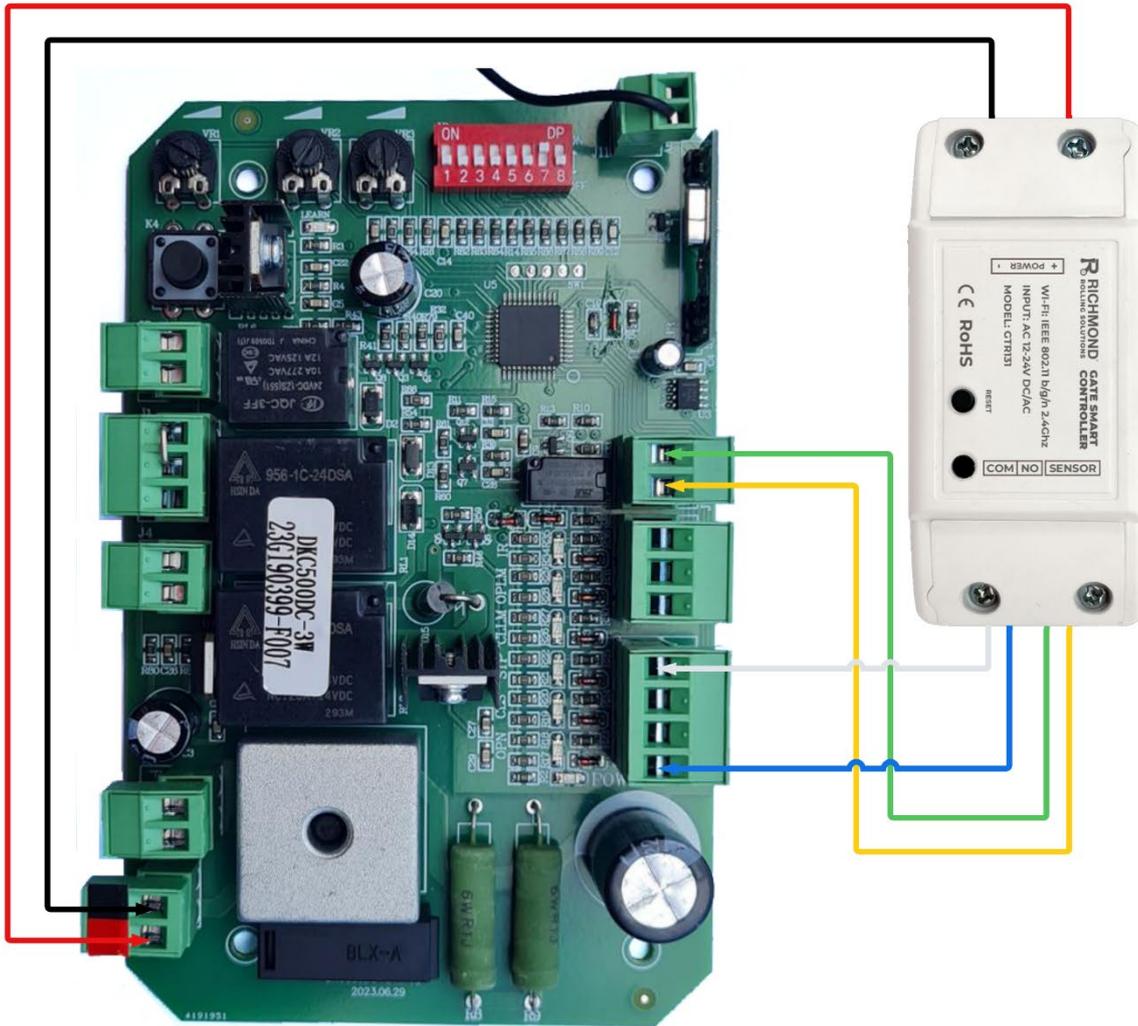


Previous PC Board Version

13 Terminal on Right-Hand Side

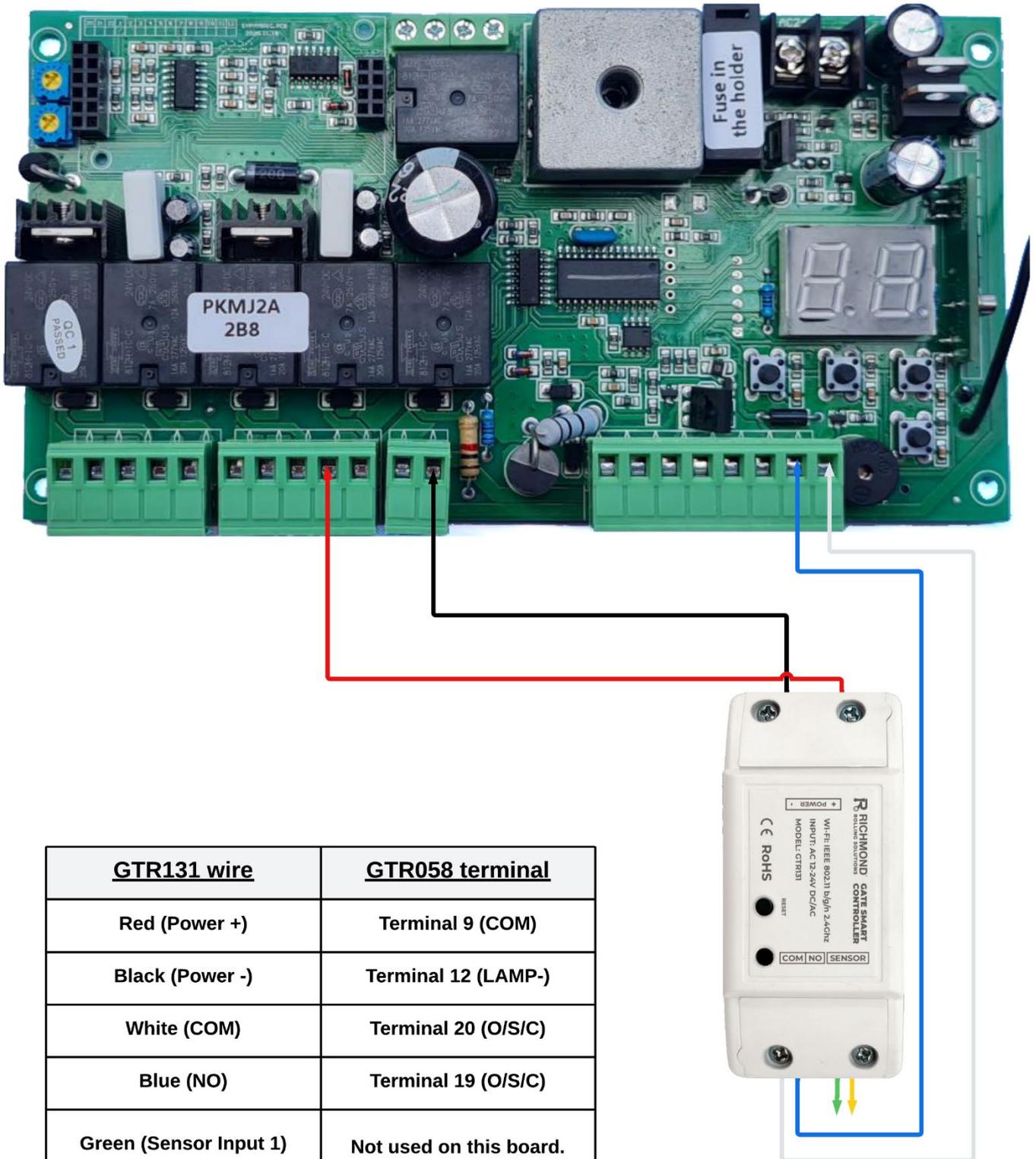
<u>GTR31 wire</u>	<u>GTR156/212 terminal</u>
Red (+)	Terminal 7 (+15v)
Black (-)	Terminal 9 (GND)
White (COM)	Terminal 4 (COM)
Blue (NO)	Terminal 5 (O/S/C)
* Do not remove jumper wire between terminals 8 & 9 *	

GTR061 or GTR207 slide motor connection



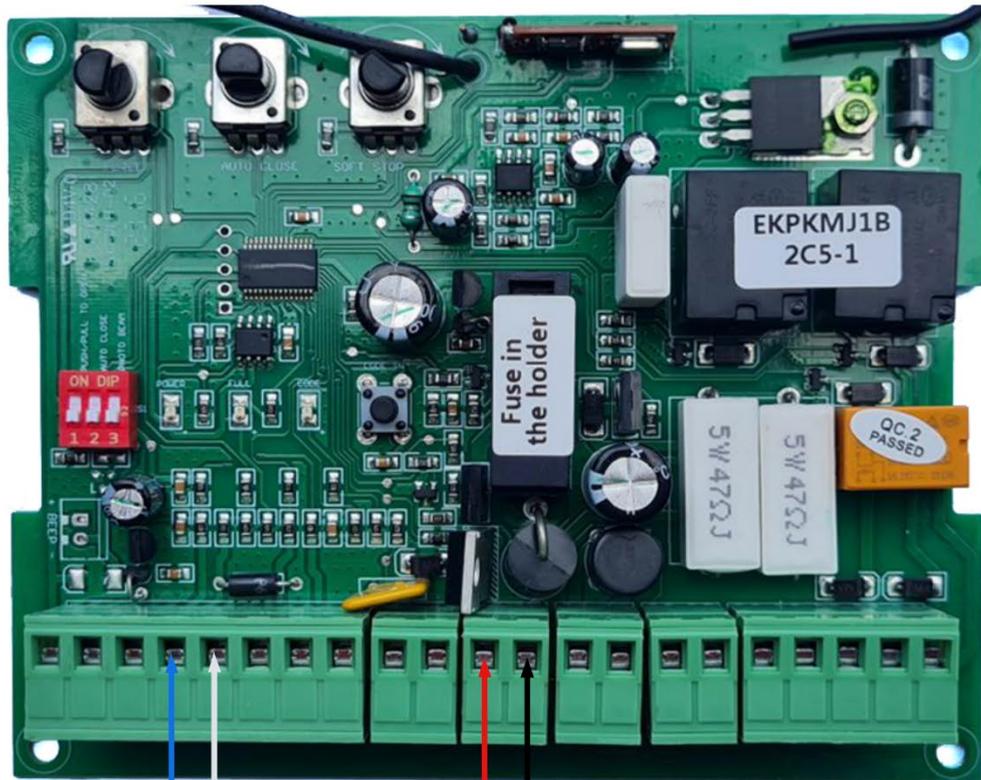
<u>GTR131 wire</u>	<u>GTR061/207 terminal</u>
Red (Power +)	Terminal BAT+ (+24vDC)
Black (Power -)	Terminal BAT- (-24vDC)
White (COM)	Terminal 4 (COM)
Blue (NO)	Terminal 1 (O/S/C)
Green (Sensor Input 1)	Terminal 9
Yellow (sensor Input 2)	Terminal 8

GTR058 double swing connection



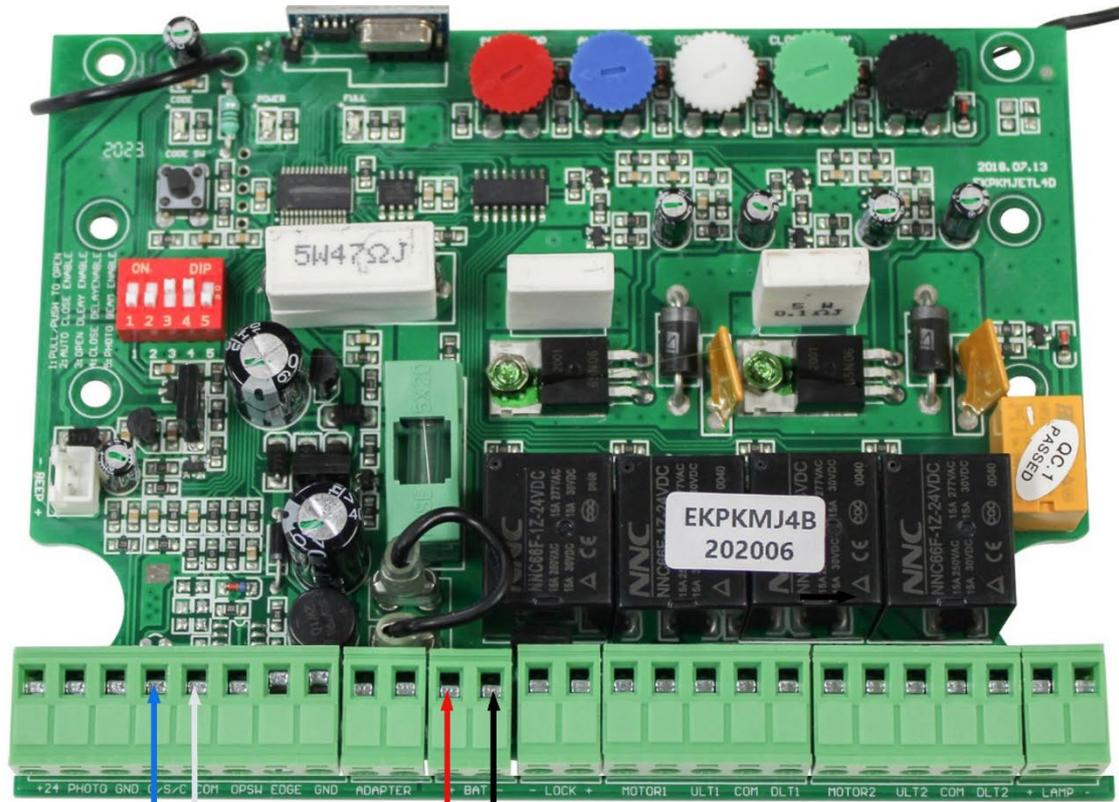
<u>GTR131 wire</u>	<u>GTR058 terminal</u>
Red (Power +)	Terminal 9 (COM)
Black (Power -)	Terminal 12 (LAMP-)
White (COM)	Terminal 20 (O/S/C)
Blue (NO)	Terminal 19 (O/S/C)
Green (Sensor Input 1)	Not used on this board. Can be connected to an external door sensor.
Yellow (sensor Input 2)	

GTR099 single swing connection



<u>GTR131 wire</u>	<u>GTR099 terminal</u>
Red (Power +)	Terminal 11 (BAT+)
Black (Power -)	Terminal 12 (BAT-)
White (COM)	Terminal 5 (COM)
Blue (NO)	Terminal 4 (O/S/C)
Green (Sensor Input 1)	Not used on this board. Can be connected to an external door sensor.
Yellow (sensor Input 2)	

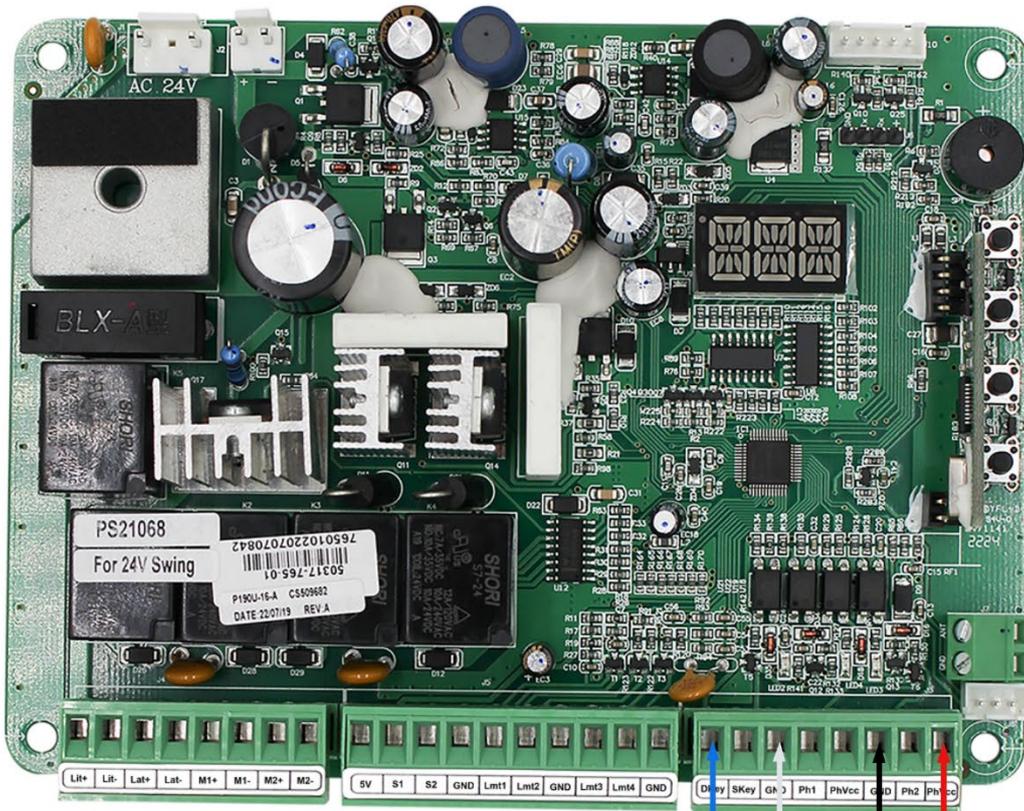
GTR062 or GTR078 solar swing connection



<u>GTR131 wire</u>	<u>GTR099 terminal</u>
Red (Power +)	Terminal 11 (BAT+)
Black (Power -)	Terminal 12 (BAT-)
White (COM)	Terminal 5 (COM)
Blue (NO)	Terminal 4 (O/S/C)
Green (Sensor Input 1)	Not used on this board. Can be connected to an external door sensor.
Yellow (sensor Input 2)	



GTR500 to GTR503 swing and articulated connection



<u>GTR131 wire</u>	<u>GTR099 terminal</u>
Red (Power +)	Terminal 23 or 26 (PhVcc)
Black (Power -)	Terminal 24 (GND)
White (COM)	Terminal 22 (GND)
Blue (NO)	Terminal 20 (DKey)
Green (Sensor Input 1)	Not used on this board. Can be connected to an external door sensor.
Yellow (sensor Input 2)	

