RICHMOND ROLLING SOLUTIONS

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**
  - o **2 x Power (Red/Black)**
  - o **2 x N/O Output (White/Blue)**
  - o **2 x Sensor Input (Green/Yellow)**

SmartR Home

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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

Add the GTR132 Magnet Sensor for OPEN/CLOSE indicator on your gate or garage door.

*Sold separately.

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.

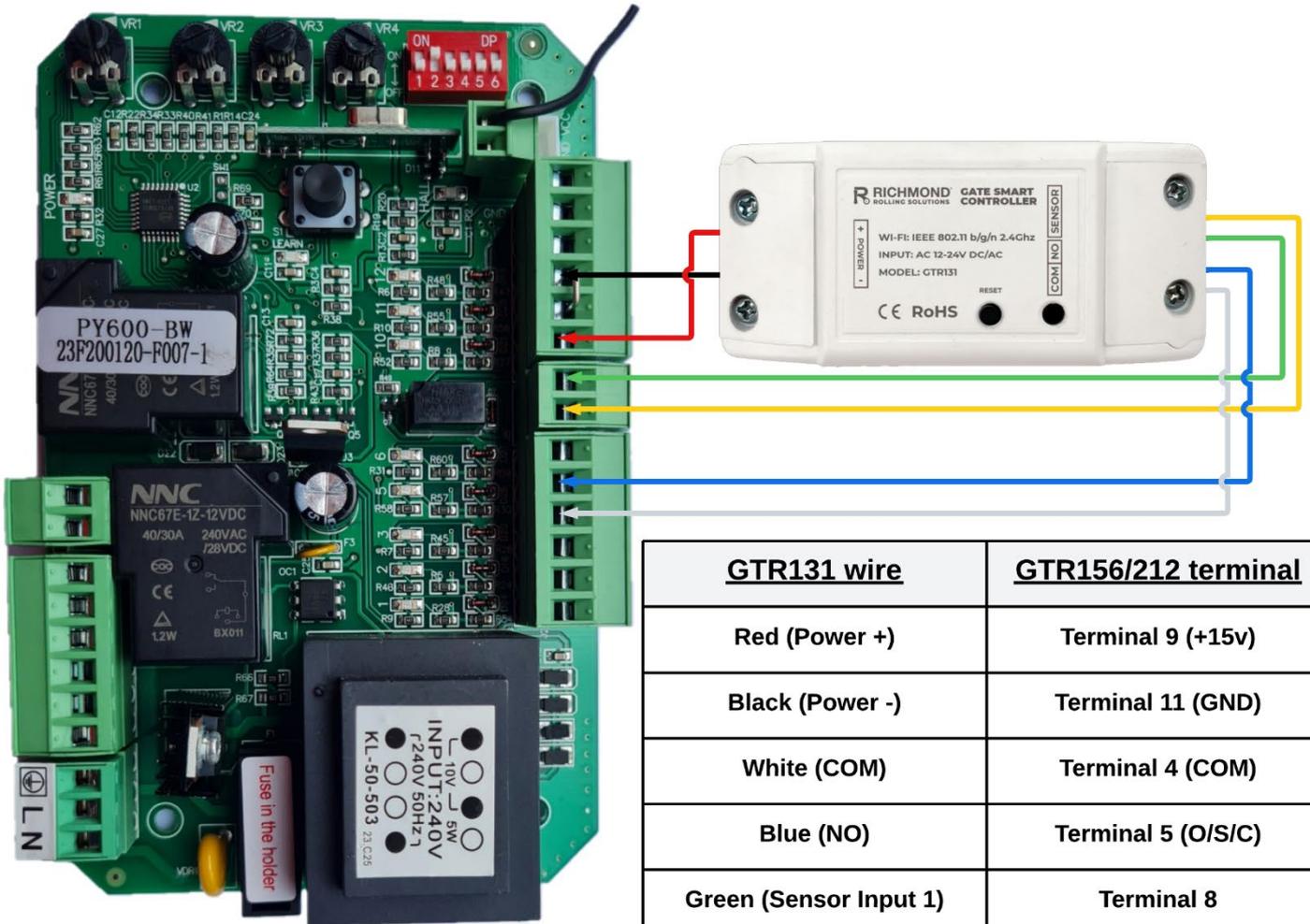**For the below example, the GTR131 Smart Wi-Fi Opener would be wired as follows:**
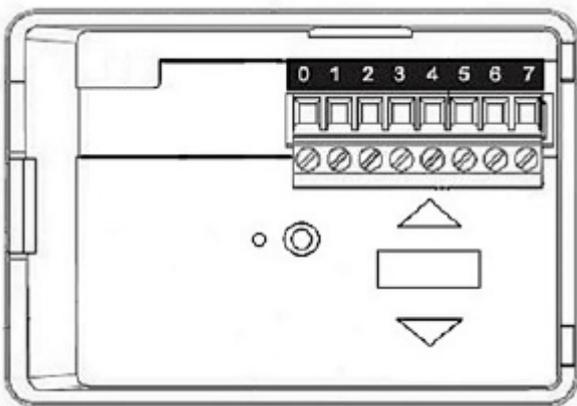
Connection

GTR131 Red into Terminal 1 (24vDC+)

GTR131 Black into Terminal 0 (24vDC-)

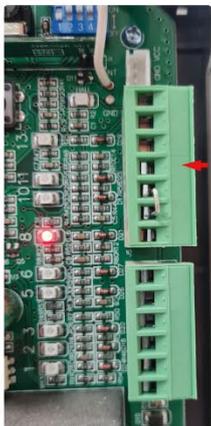GTR131 White into Terminal 5 (COM)

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

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GTR156 or GTR212 slide motor connection

GTR131 wire	GTR156/212 terminal
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 8
Yellow (sensor Input 2)	Terminal 7
* Do not remove jumper wire between terminals 10 & 11 *	

Previous PC Board Version

13 Terminal on Right-Hand Side

| GTR31 wire	GTR156/212 terminal
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
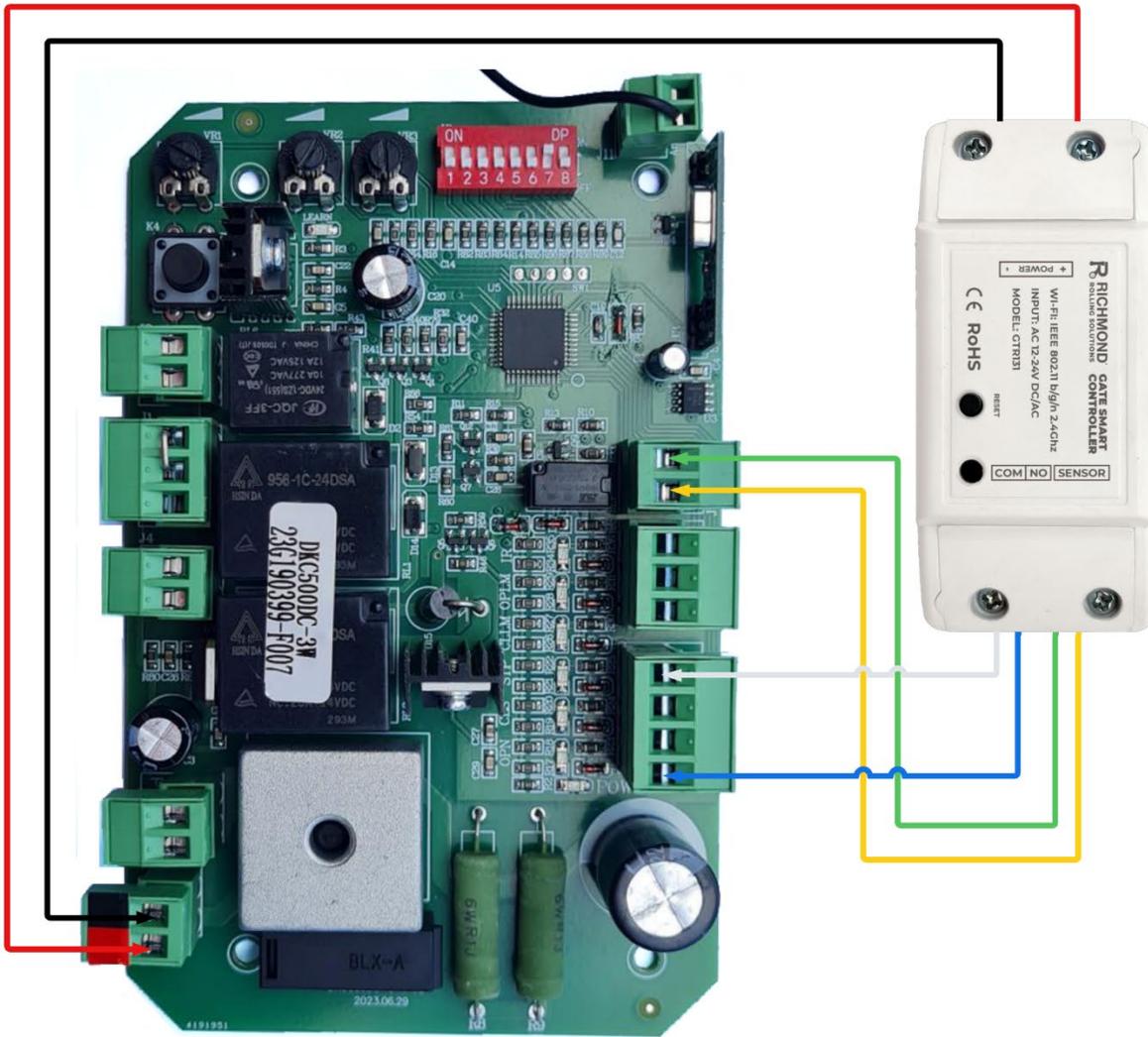
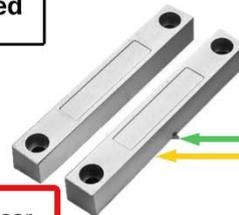| **GTR131 wire**	**GTR061/207 terminal**
Red (Power +)	Terminal BAT+ (+24vDC)
Black (Power -)	Terminal BAT- (-24vDC)
White (COM)	Terminal 4 (COM)
Blue (NO)	Terminal 1 (O/S/C)
Green (Sensor Input 1)	Terminal 9
Yellow (sensor Input 2)	Terminal 8

GTR510 Slide Motor connection

GTR132 Magnet Sensor
*Sold seperately
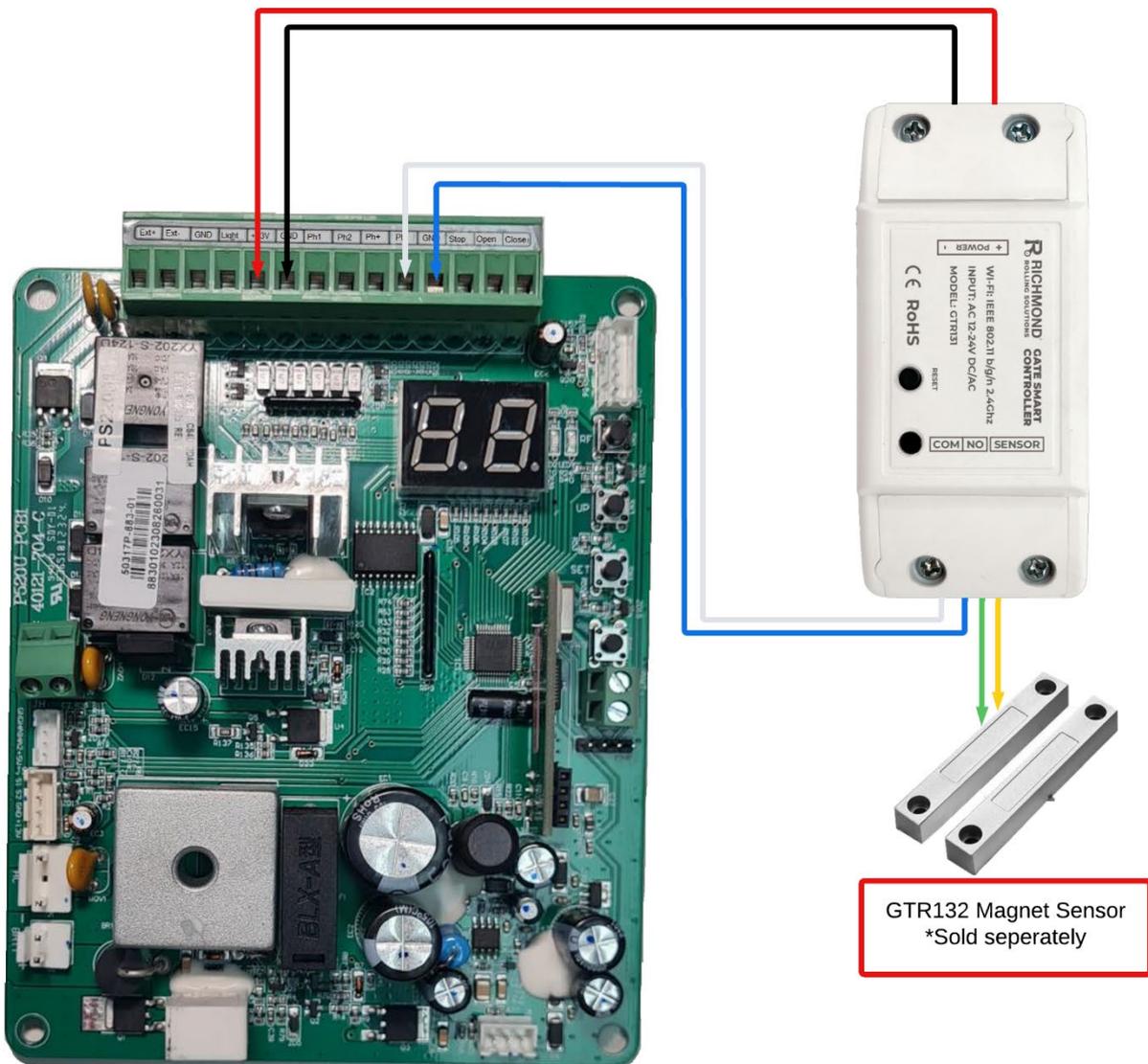
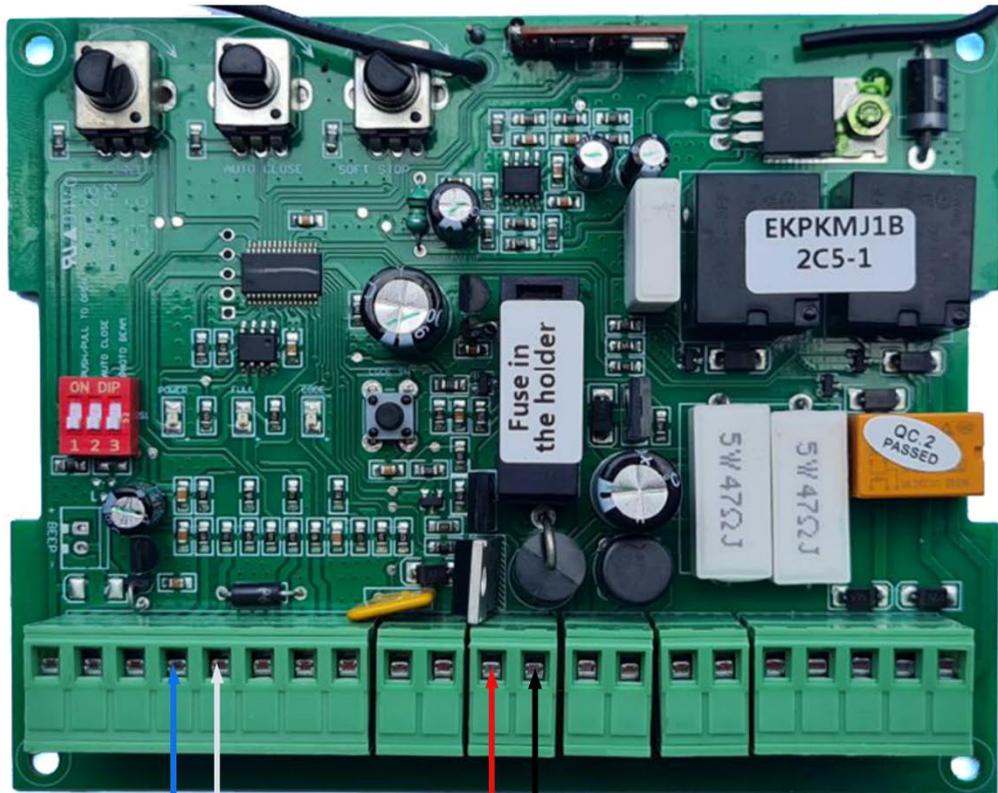| GTR131 wire	GTR510 terminal
Red (Power +)	Terminal 5 (+13V)
Black (Power -)	Terminal 6 (GND)
White (COM)	Terminal 10 (Pb)
Blue (NO)	Terminal 11 (GND)
Green (Sensor Input 1)	*External Sensor Required
Yellow (sensor Input 2)	*External Sensor Required

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GTR058 double swing connection
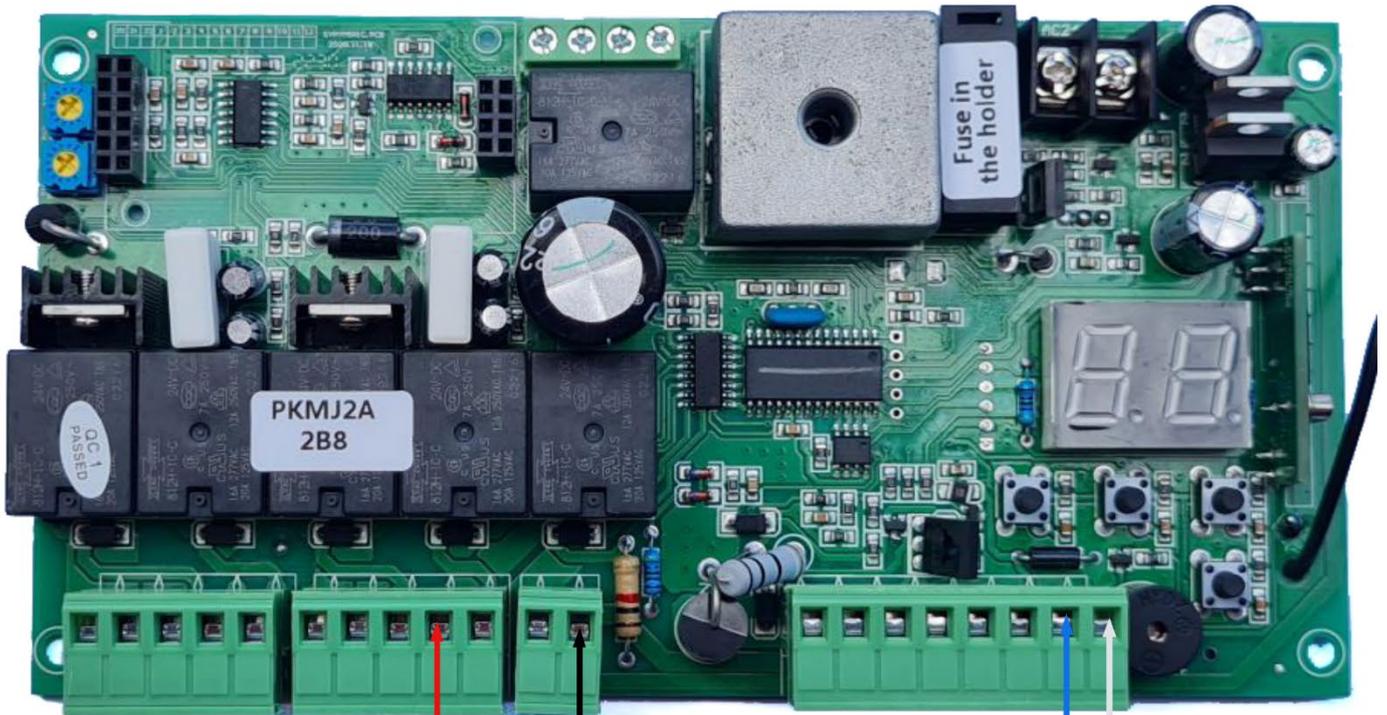
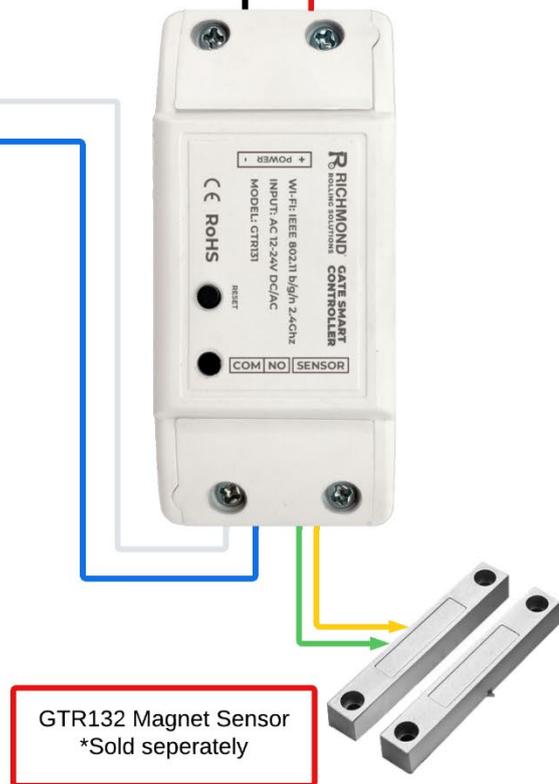| GTR131 wire	GTR058 terminal
Red (Power +)	Terminal 9 (COM)
Black (Power -)	Terminal 12 (LAMP-)
White (COM)	Terminal 20 (O/S/C)
Blue (NO)	Terminal 19 (O/S/C)
Green (Sensor Input 1)	*External Sensor Required
Yellow (sensor Input 2)	*External Sensor Required

GTR132 Magnet Sensor
*Sold seperately

GTR099 single swing connection

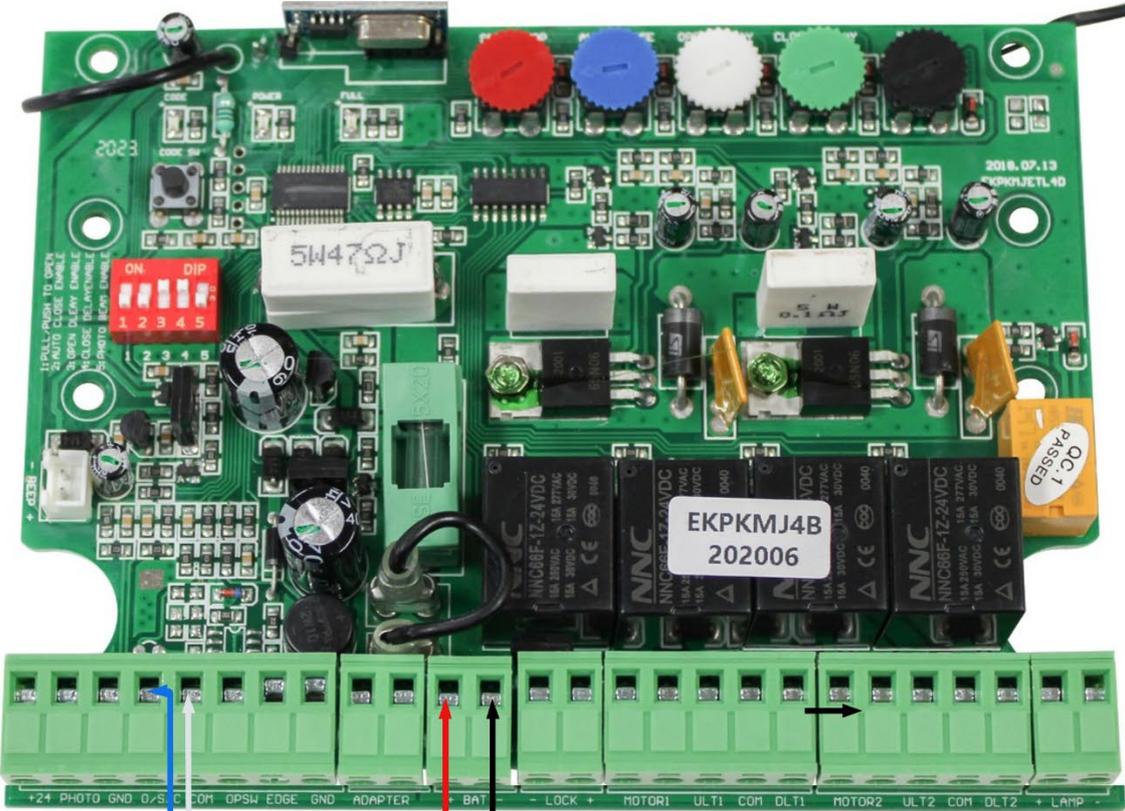| **GTR131 wire**	**GTR099 terminal**
Red (Power +)	Terminal 11 (BAT+)
Black (Power -)	Terminal 12 (BAT-)
White (COM)	Terminal 5 (COM)
Blue (NO)	Terminal 4 (O/S/C)
Green (Sensor Input 1)	*External Sensor Required
Yellow (sensor Input 2)	*External Sensor Required

GTR132 Magnet Sensor
*Sold seperately

GTR062 or GTR078 solar swing connection

GTR131 wire	GTR099 terminal
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)	*External Sensor Required
Yellow (sensor Input 2)	*External Sensor Required

GTR132 Magnet Sensor
*Sold seperately

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GTR500 to GTR503 swing and articulated connection
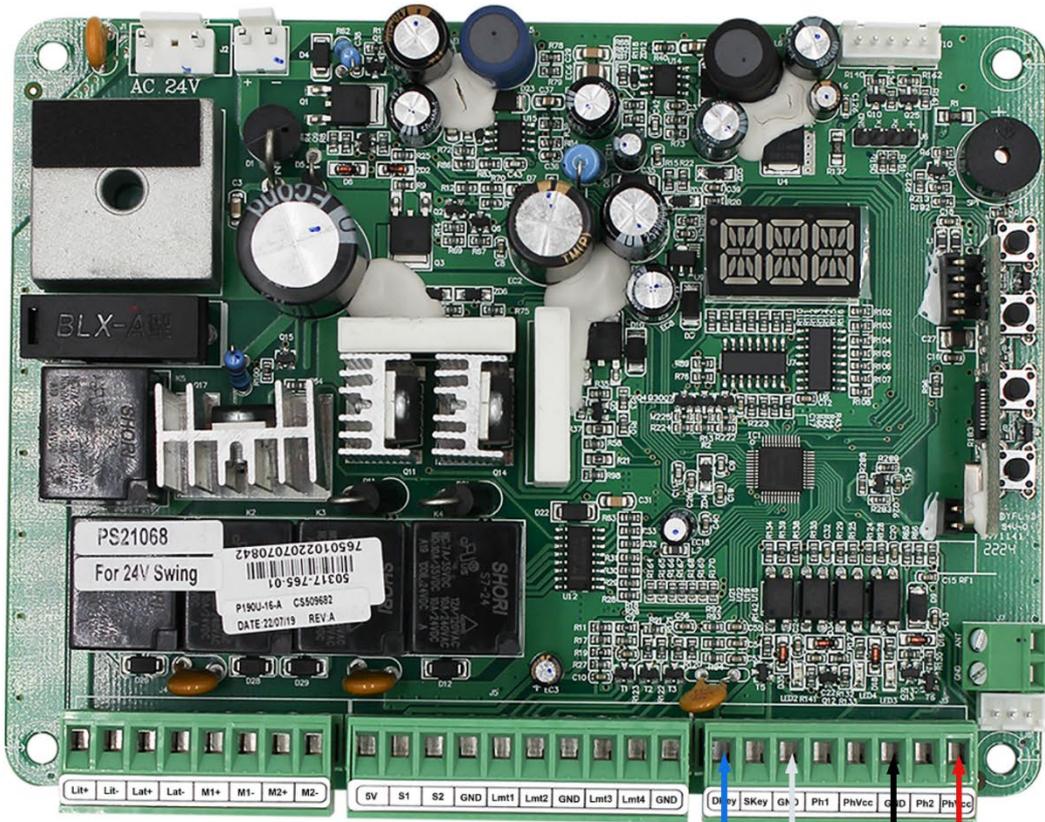
GTR131 wire	GTR099 terminal
Red (Power +)	Terminal 23 or 26 (PhVcc)
Black (Power -)	Terminal 24 (GND)
White (COM)	Terminal 21 (GND)
Blue (NO)	Terminal 19 (DKey)
Green (Sensor Input 1)	Not used on this board. Can be connected to an external door sensor.
Yellow (sensor Input 2)	

GTR132 Magnet Sensor
*Sold seperately

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