Scan for
wiring diagrams
and additional info.

GTR182
Wireless Infrared Photocell

Compatible with the following Richmond motors.		
Sliding / Cantilever Motors		
GTR156 & GTR212 ✓	GTR061 & GTR207 ✓	GTR510 ✓
Swing Motors		
TR099 ✓	GTR058 ✓	GTR062 & GTR078 ✓
GTR500 & GTR501 ✓	GTR502 & GTR503 ✓	
! Compatible with a large range of other manufacturers gate/garage openers.		

Technical Specs:

- **Range: 10 metres**
- **Type: Infrared point-to-point.**
- **Power Supply:**
  - **Sender unit: 2 x AA battery OR 12-24volt AC/DC**
  - **Receiver unit: 12-24volt AC/DC**
- **IP54 rating. Suitable for outdoor use.**
- **Current draw: 10mA (standby) 20mA (active)**
- **Light Source: Infrared LED**
- **Operating temperature: -5°C to 60°C**
- **Material: ABS**

Installing your infrared photocell:

Before installation, check the pin settings match the image on the following page.

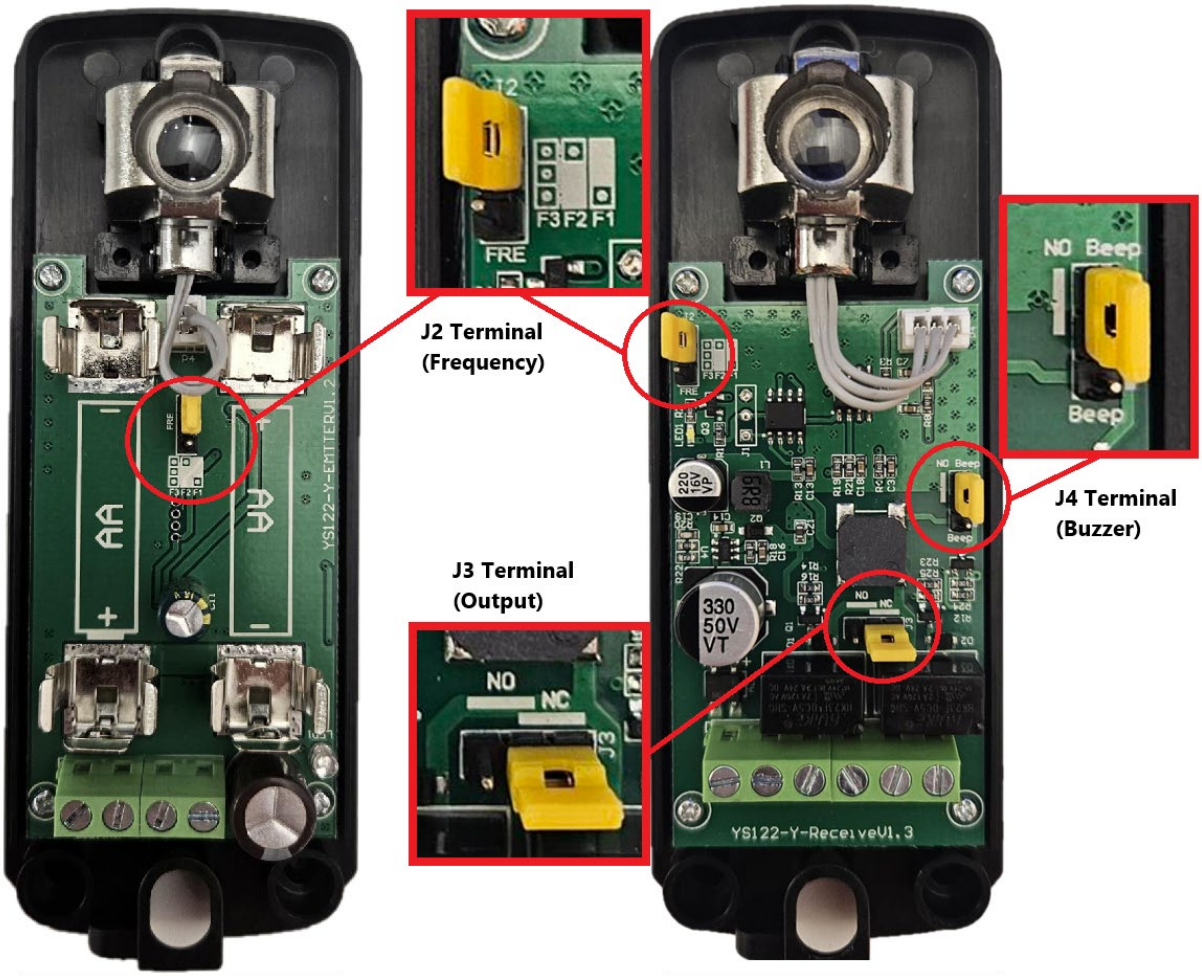
Attach the Infrared sender and reflector on a fixed structure with minimal movement.
- Any vibration/movement may lead to a break in the Infrared beam and incorrect operation of the gate.

Ensure both units are installed at a height that will correctly detect any vehicles and pedestrians.
- eg: If mounted too low, the Infrared beam will operate underneath a vehicle.
- If necessary, fit multiple sensors as shown on the last page of this manual.

Install the receiver at the side closest to the control box or gate motor.

The sender is installed on the opposite side of the driveway and can be powered by 2 x AA batteries.
Alternatively, the sender can be hard-wired with direct power so that no batteries are required.

Check your jumper pin locations as shown below.



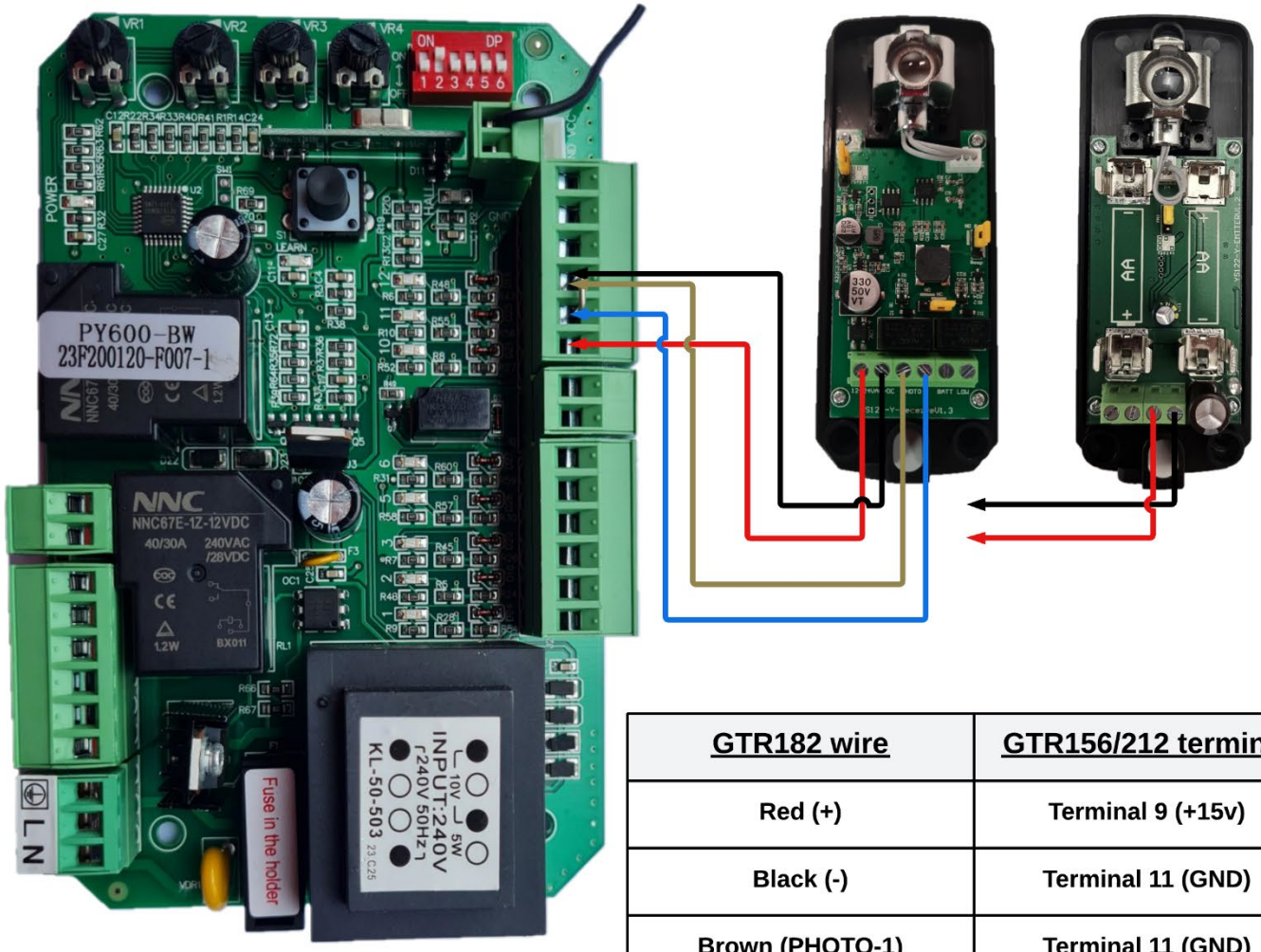
RF Sender Unit

RF Receiver Unit

The sender unit has two options for power supply.

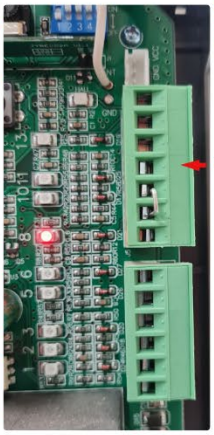
2 x AA batteries (supplied with unit)
OR
Hard-wired for permanent power supply.

GTR156 or GTR212 slide motor connection



GTR182 wire	GTR156/212 terminal
Red (+)	Terminal 9 (+15v)
Black (-)	Terminal 11 (GND)
Brown (PHOTO-1)	Terminal 11 (GND)
Blue (PHOTO-2)	Terminal 10 (NC)
** Remove jumper wire between terminals 10 & 11 **	

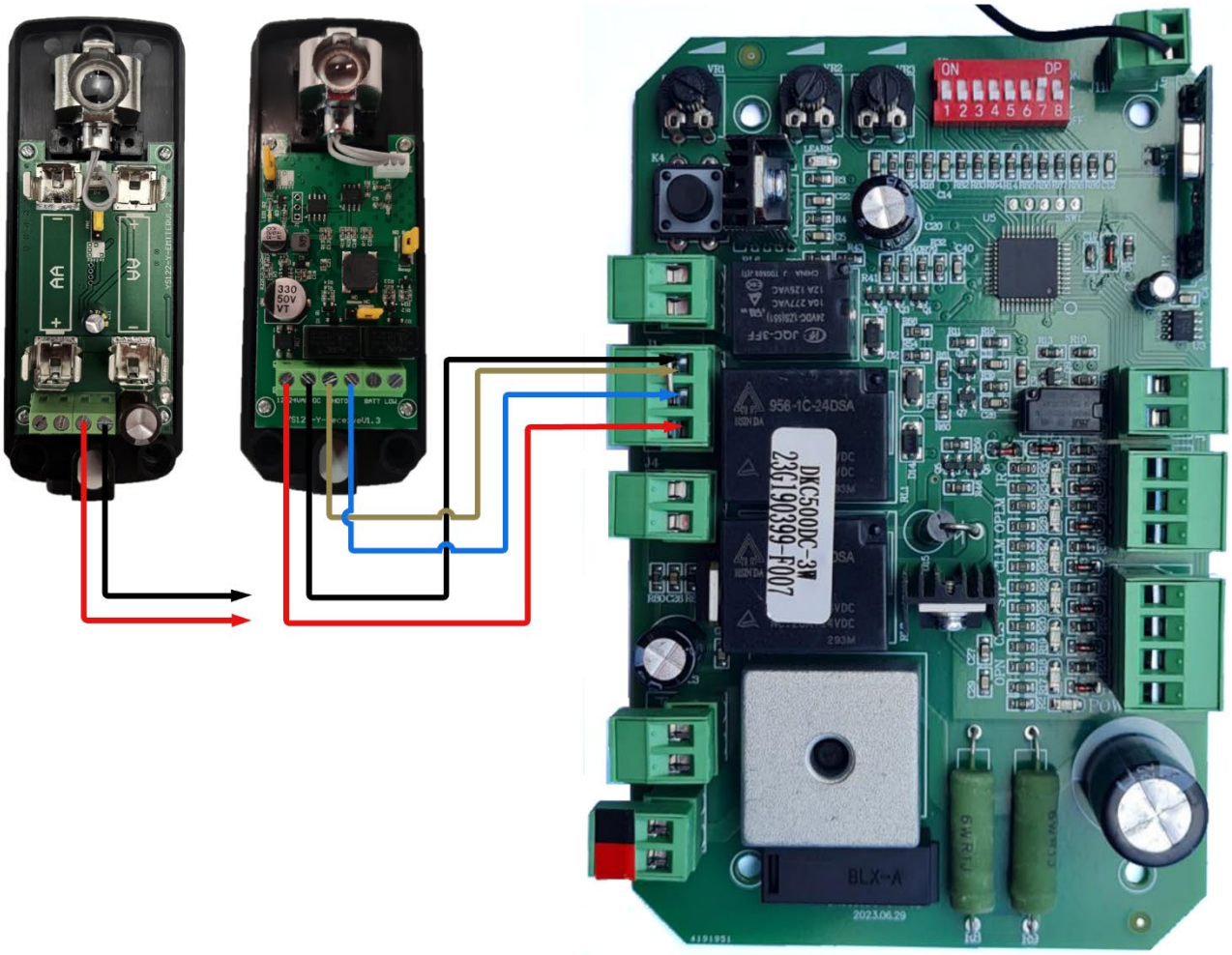
Previous PC Board Version



13 Terminal on Right-Hand Side

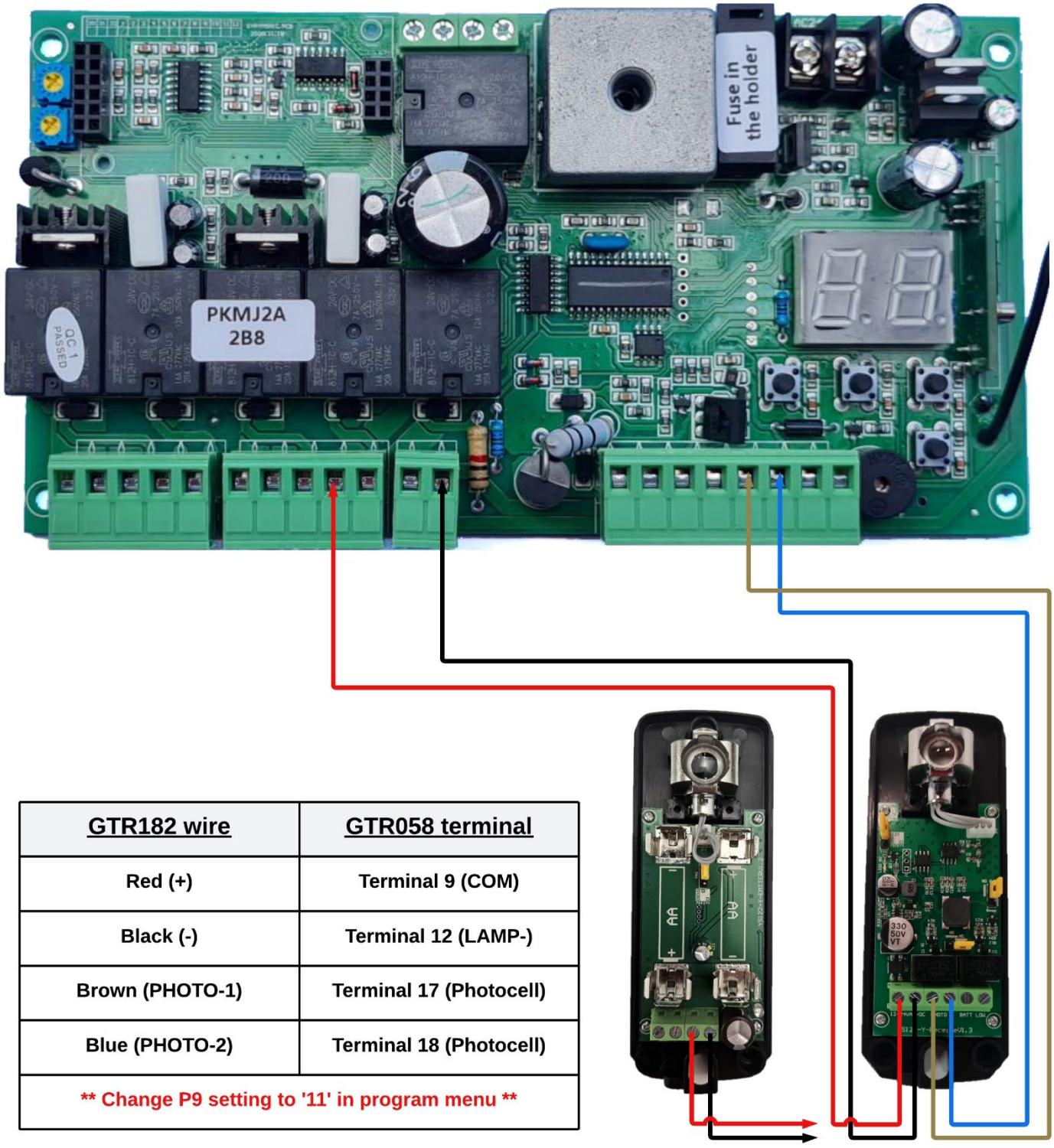
GTR182 wire	GTR156/212 terminal
Red (+)	Terminal 7 (+15v)
Black (-)	Terminal 9 (GND)
Green (PHOTO-1)	Terminal Terminal 9 (GND)
Blue (PHOTO-2)	Terminal 8 (NC)
** Remove jumper wire between terminals 8 & 9 **	

GTR061 or GTR207 slide motor connection



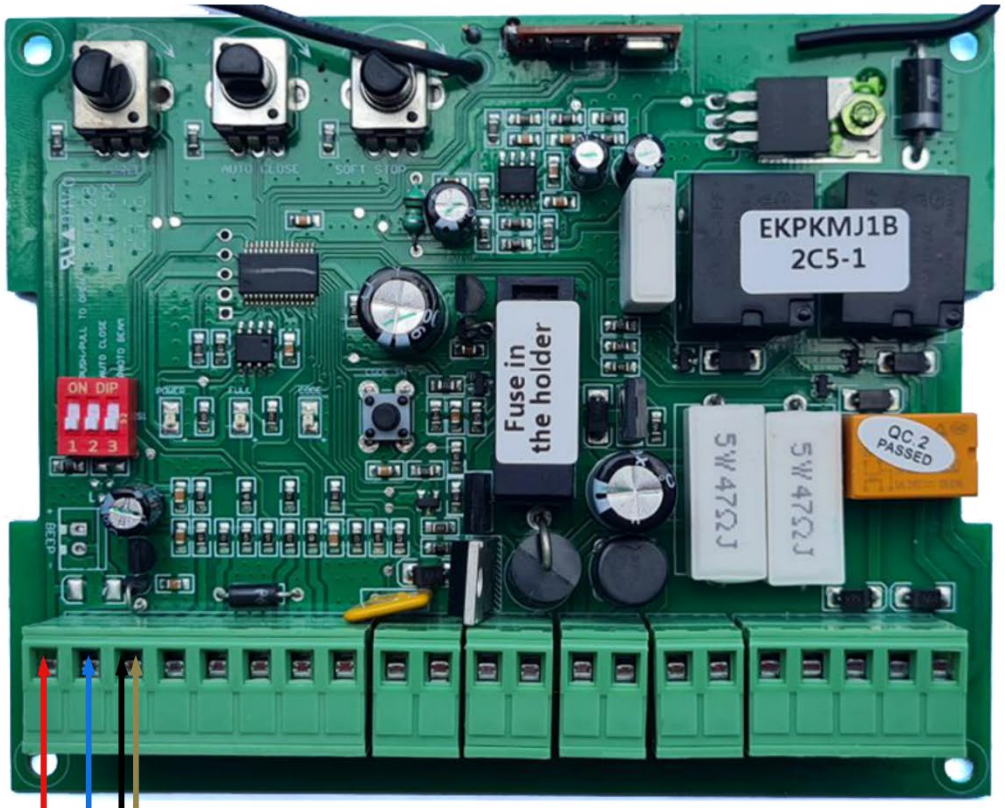
GTR182 wire	GTR061/207 terminal
Red (+)	Terminal 7 (24VDC)
Black (-)	Terminal 5 (COM)
Brown (PHOTO-1)	Terminal 5 (COM)
Blue (PHOTO-2)	Terminal 6 (Photocell)
** Remove jumper wire between terminals 5 & 6 **	

GTR058 double swing connection

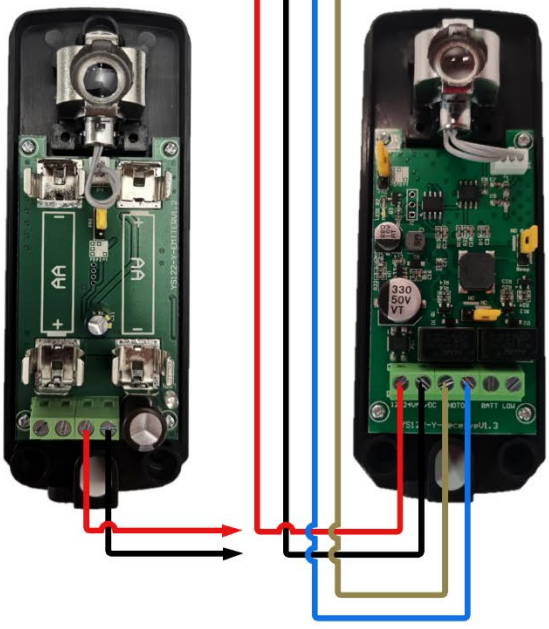


GTR182 wire	GTR058 terminal
Red (+)	Terminal 9 (COM)
Black (-)	Terminal 12 (LAMP-)
Brown (PHOTO-1)	Terminal 17 (Photocell)
Blue (PHOTO-2)	Terminal 18 (Photocell)
** Change P9 setting to '11' in program menu **	

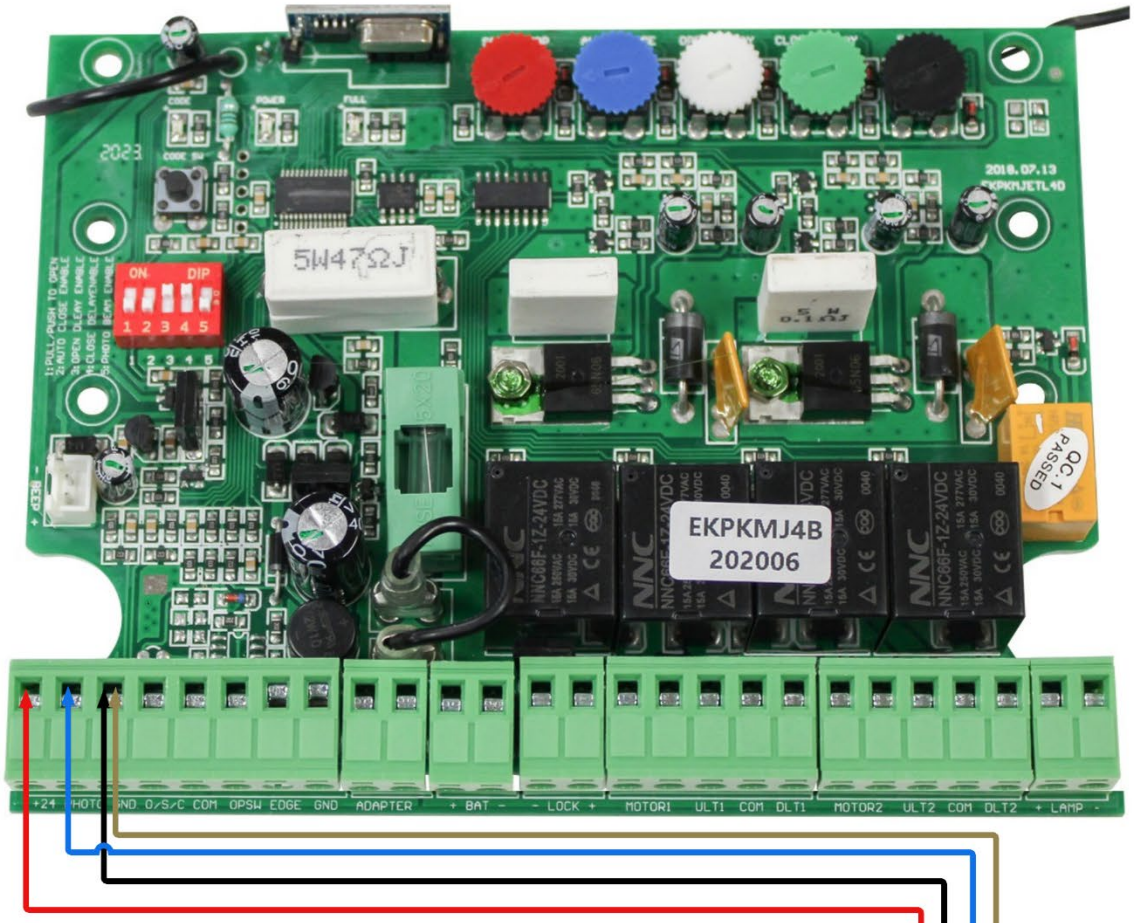
GTR099 single swing connection



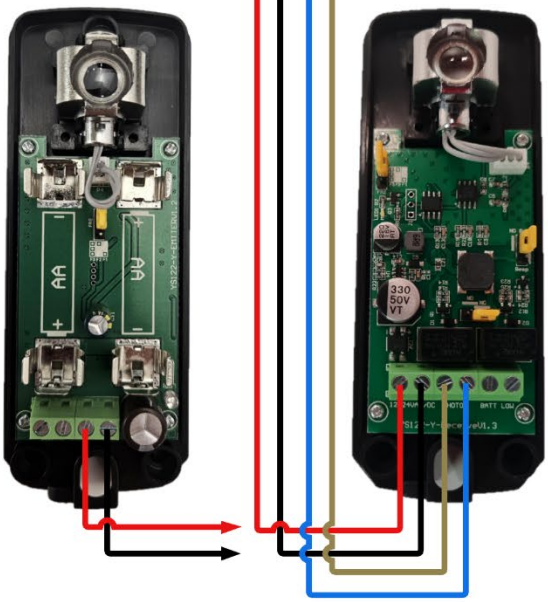
GTR182 wire	GTR099 terminal
Red (+)	Terminal 1 (+24)
Black (-)	Terminal 3 (GND)
Brown (PHOTO-1)	Terminal 3 (GND)
Blue (PHOTO-2)	Terminal 2 (Photo)
** Change dip switch #3 to ON (up) **	



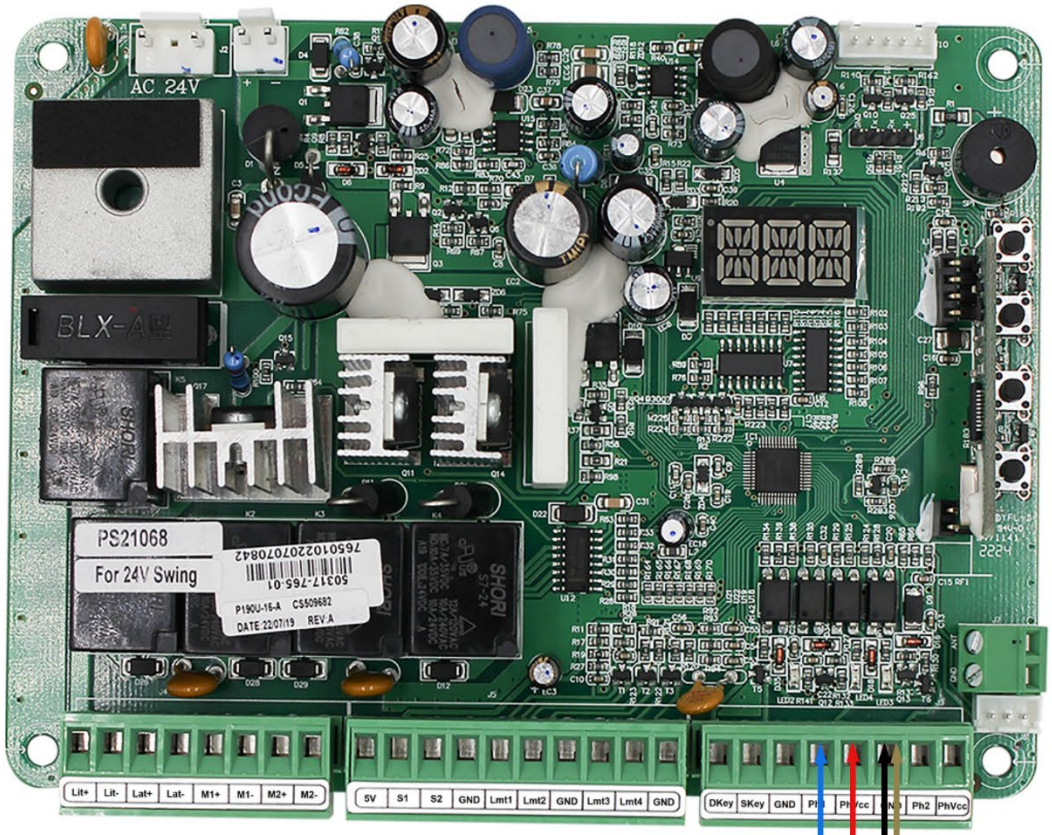
GTR062 or GTR078 solar swing connection

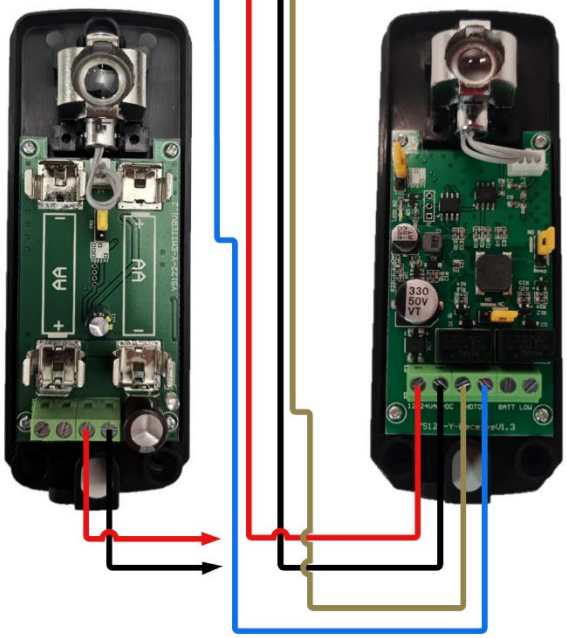


GTR182 wire	GTR062/078 terminal
Red (+)	Terminal 1 (+24)
Black (-)	Terminal 3 (GND)
Brown (PHOTO-1)	Terminal 3 (GND)
Blue (PHOTO-2)	Terminal 2 (Photo)
** Change dip switch #5 to ON (up) **	



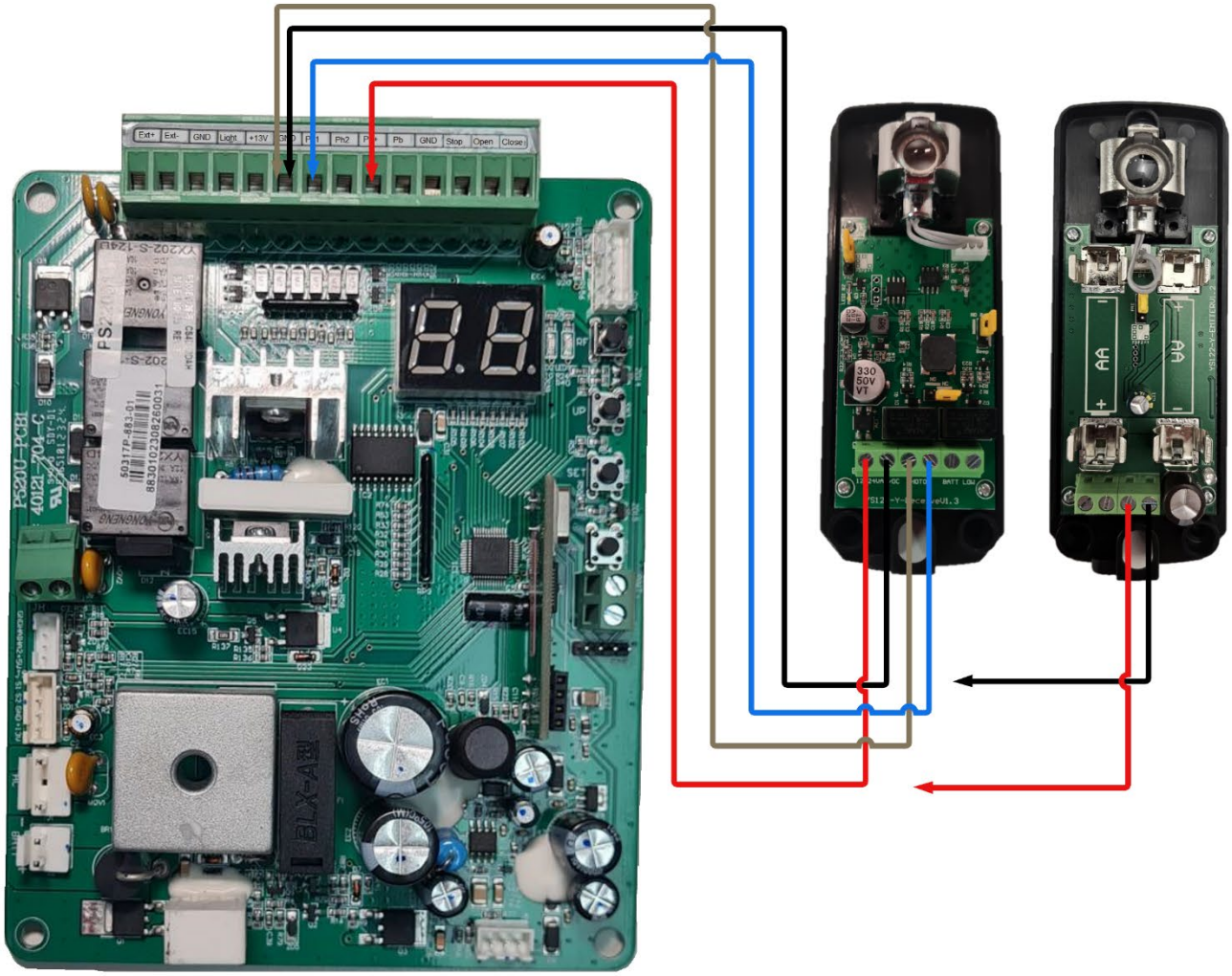
GTR500 to GTR503 swing and articulated connection





GTR182 wire	GTR500-503 terminal
Red (+)	Terminal 23 (PhVcc)
Black (-)	Terminal 24 (GND)
Green (PHOTO-1)	Terminal 24 (GND)
Blue (PHOTO-2)	Terminal 22 (Ph1)
** Change FH setting to 'FH1' (ON) in program menu **	

GTR510 Slide Motor connection



GTR182 wire	GTR510 terminal
Red (+)	Terminal 9 (Ph+)
Black (-)	Terminal 6 (GND)
Brown (PHOTO-1)	Terminal 6 (GND)
Blue (PHOTO-2)	Terminal 7 (Ph1)
** Change L setting to 'L1' (ON) in program menu **	