Wireless Vehicle Detection System Installation Manual

For Model: GTR162

The e-Loop Mini replaces traditional wired inductive loops, saving you time and money while increasing reliability.

The e-Loop Mini is the little brother of the commercial e-Loop, perfect for domestic applications.

Kit Contents

- 1 x e-Loop Mini wireless detection module
- 1 x 12–24VDC single channel transceiver
- 2 x anchor bolts

Features

- Quick and easy installation
- Small compact design (120mm x 120mm x 30mm high)
- Static load capacity 2500kg
- Uses standard 1.5V AA Lithium batteries (not included) providing up to 3 years battery life
- High security 128-bit encryption
- Range up to 50 meters

Specifications

Frequency	433.39 MHz
Security	128-bit AES encryption
Range	up to 50 metres
Battery life	up to 3 years
Battery type	Eveready AA Lithium 1.5V x 2 (not Included)
Important	Use only AA 1.5V Lithium batteries – do not use Alkaline batteries

e-LOOP Mini Fitting Instructions

Before fitting the e-Loop, you will need to fit the 2 x AA batteries and screw the bottom plate to the e-Loop using the M3 screws supplied. Ensure all screws are tight.

Step 1 – Coding e-LOOP Mini

1. Press and hold the CODE button on transceiver until the Red LED illuminates, now release button.

2. Press the CODE button on the e-Loop Mini. The Yellow LED on the e-Loop will flash 3 times to indicate transmission, and the Red LED on the transceiver will flash

3. times to confirm the coding sequence has completed.

Step 2 – Fitting e-LOOP Mini
(Refer to Diagram on the right)

1. Place e-Loop in the desired location and secure base plate into the ground using 2 Dyna bolts (supplied).
**NOTE:** Never fit near high voltage cables, this can affect the e-Loop's detection capability.

Step 3 – Calibrate e-LOOP Mini

1. Move any metal objects away from the e-Loop, including cordless drills.
2. Press and hold the CODE button and the Yellow LED will flash once, keep your finger on the button until the Red LED flashes twice.
3. Now fit the e-Loop to the base plate using the 4 x Hex Head bolts. After 3 minutes, the Red LED will flash a further 3 times. The e-Loop is now calibrated and ready to use.
System is now ready.

Uncalibrate e-LOOP Mini

1. Press and hold CODE button and the Yellow LED will flash, keep finger on the CODE button until you see the Red LED flash 4 times.
2. Now release button and e-Loop is uncalibrated.
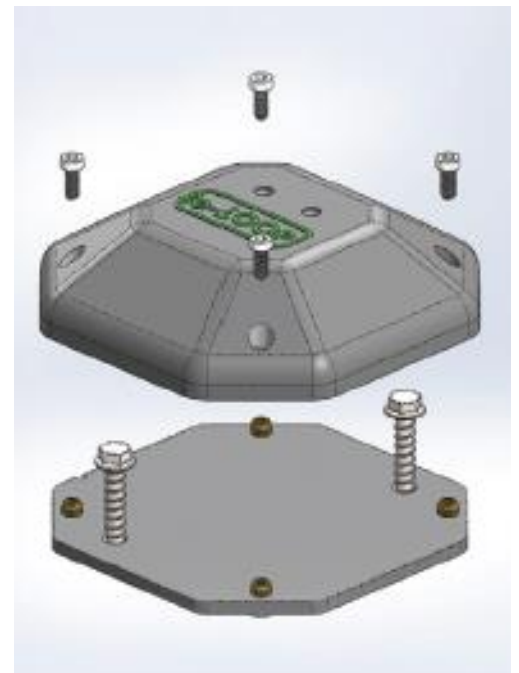
e-TRANS-50

SINGLE CHANNEL TRANSCEIVER

Introducing a bidirectional wireless access control system for gate and door applications.

Featuring a compact design with exceptional range, the e-Trans-50 is designed to manage access control for home and commercial systems.

Features

- Compact design with exceptional range
- SMA connector for standard for optional long-range antenna connection
- Wide Voltage Range: 10-36V DC
- Exceptionally low Current draw: standby 4.5 m/a, active 30 m/a
- Frequency: 433.39 MHz
- Remote storage: 50 remotes, 2 x e-Loops, 2 x Keypads, 2 x Entry Buttons
- Relay: 1-amp contact rating, COM and N/O connections x 1 relay
- Multiple Modes: Pulse, Latch and Hold

Specifications

Voltage	10-36V DC
Current draw standby	4.5 m/a
Current draw active	30 m/a
Frequency	433.39 MHz
Remote storage	50 remotes, 2 x e-Loops, 2 x keypads, 2 x entry buttons
Relay	1-amp contact rating, COM and N/O connections x 1 relay
Modes	Pulse, Latch and Hold

Coding device

1. To code device press and release **CODE** button. The Code LED will illuminate.

2. To code remote handset, press the remote button that you want to activate transceiver once. The Code LED will flash, indicating coding sequence.

3. Press remote button a second time, the Code LED will flash again, and the coding sequence is now complete. You can follow on with more remotes, wait 10 seconds for code sequence to automatically exit or press the coded remote once more to exit.

NOTE: The first time a remote is coded into Transceiver, it sets the button allocation for that remote and all future remotes. So, if you have chosen button 1 on the first remote, all following remotes will activate from that button no matter which button you coded the following remotes with.

Changing button allocation

1. Press and hold the **CODE** button on the Transceiver, the Code LED will illuminate.

2. Now take a coded remote and press the button you want the transceiver to work from. All LEDs will flash to indicate changed button allocation.
All remotes will now work from the new selected button.

Deleting remotes

1. Press and hold code button for 10 seconds. All LEDs will flash 3 times to indicate all remote devices have been cleared.
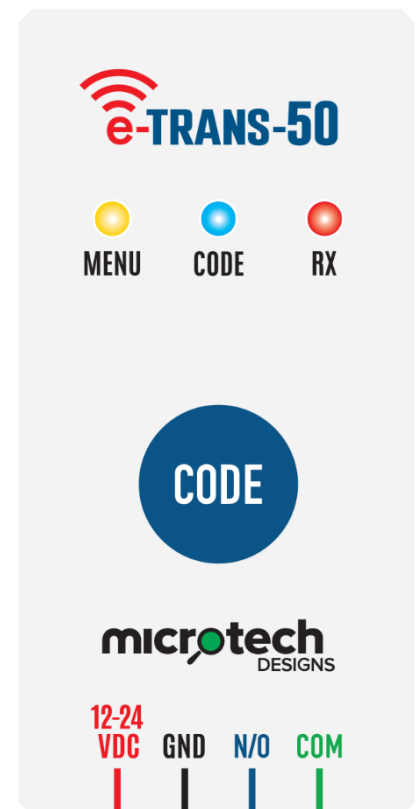
To code e-Loop first option

1. Press and release **CODE** button on the Transceiver, the Code LED will illuminate.
2. Now press the CODE button on the domestic e-Loop, or use the magnet to activate the code button on the commercial e-Loop. The Transceiver and e-Loop will now pair.
If pairing was successful, the Code LED will flash 3 times and exit code learn.
If pairing fails, the RX LED will flash 3 times and exit code learn.

To code e-Loop second option

1. Place antenna of the Transceiver on top of the e-Loop.
2. Now press **CODE** button on the Transceiver.
If pairing was successful, the Code LED will flash 3 times and exit code learn.
If pairing fails, the Code LED will stay on as per standard coding sequence.

To change operational mode

1. Remove the power from the Transceiver by unplugging the terminal block.
2. Now hold the **CODE** button on the Transceiver, then plug in the terminal block. The Menu LED will display.
Now release the **CODE** button, the Code LED will also display indicating Pulse mode.
3. To change mode press **CODE** button, the Menu LED and RX LED will now display indicating Hold mode.
4. Press **CODE** again and all LEDs will display indicating Latch mode. (By pressing **CODE** button again, it will take you back to Pulse mode).
Wait 5 seconds and menu will exit back to operational mode.
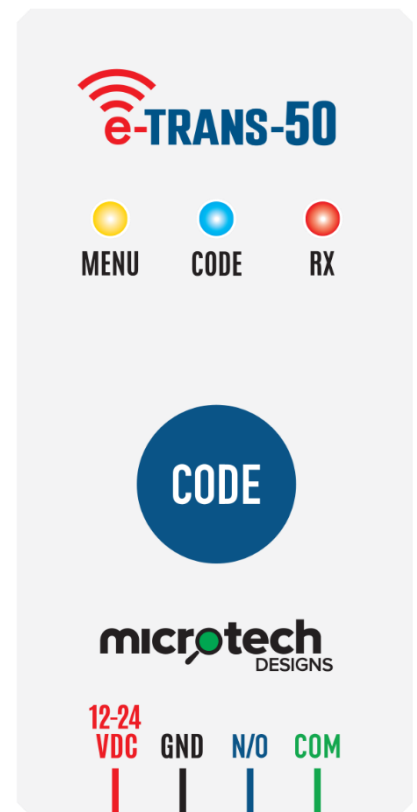
GTR156 or GTR212 slide motor connection
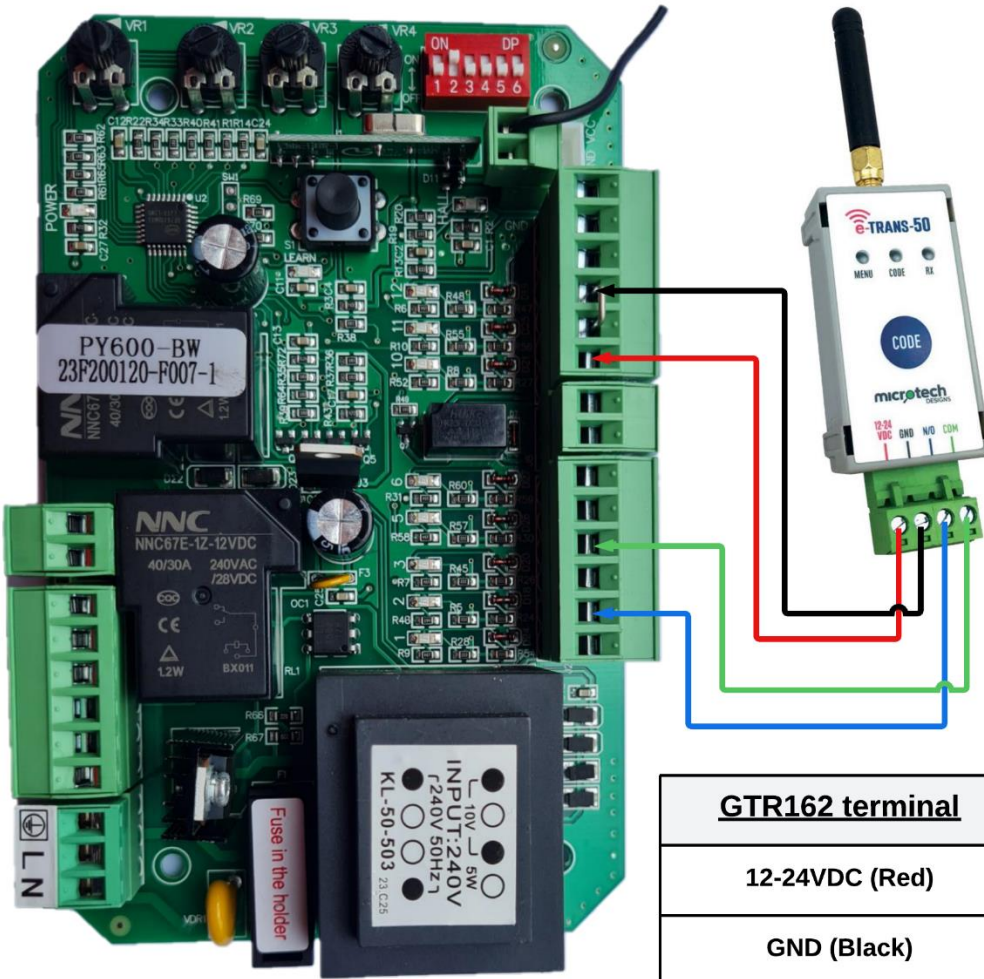
GTR162 terminal	GTR156/212 terminal
12-24VDC (Red)	Terminal 9 (12VDC)
GND (Black)	Terminal 11 (GND)
N / O (Blue)	Terminal 2 (OPEN)
COM (Green)	Terminal 4 (COM)
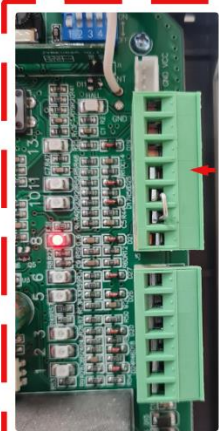
**Previous PC Board Version**

13 Terminal on Right-Hand Side

GTR197 wire	GTR156/212 terminal
12-24VDC (Red)	Terminal 7 (12VDC)
GND (Black)	Terminal 9 (GND)
N / O (Blue)	Terminal 2 (OPEN)
COM (Green)	Terminal 4 (COM)

RICHMOND WHEEL & CASTOR CO

GTR061 or GTR207 slide motor connection
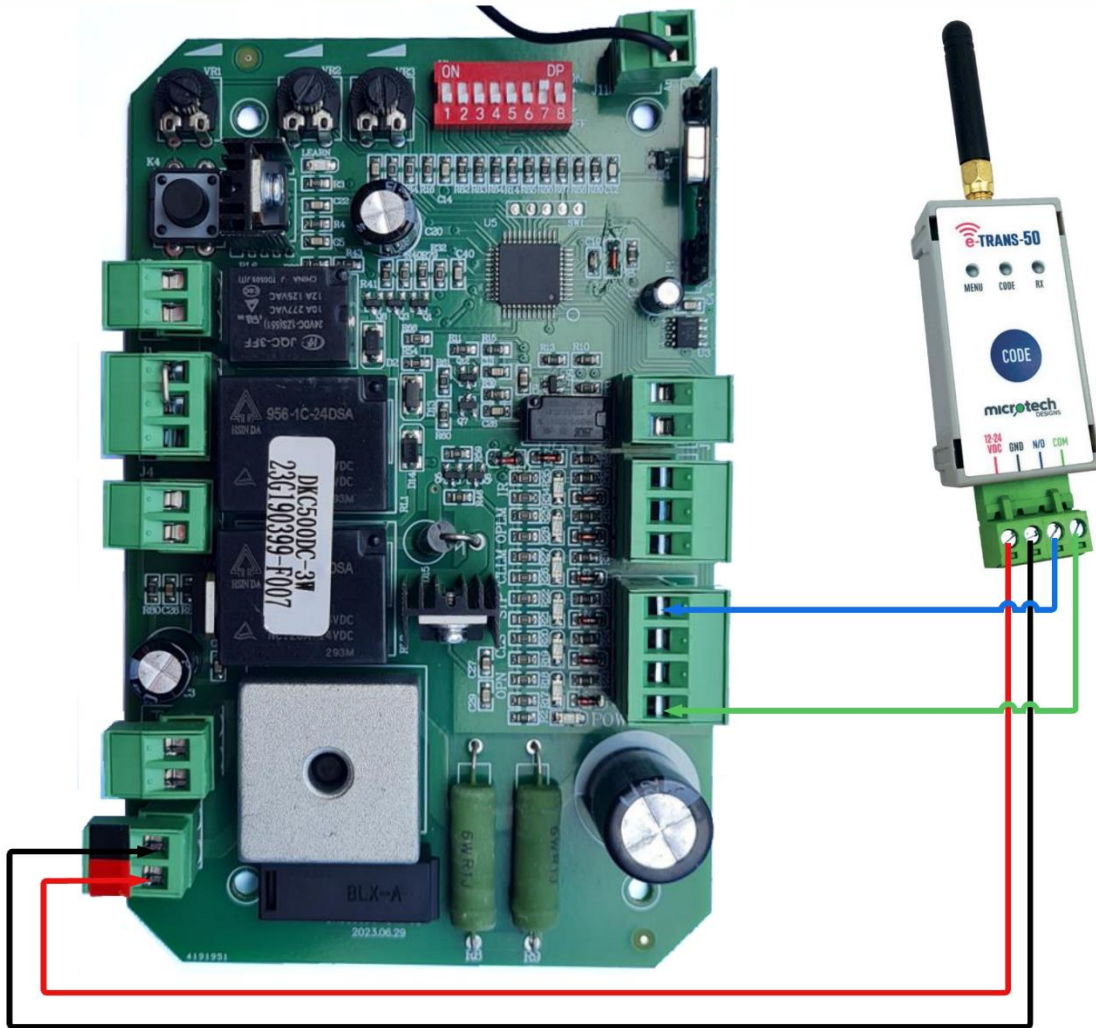
GTR162 terminal	GTR061/207 terminal
12-24VDC (Red)	BAT +
GND (Black)	BAT -
N / O (Blue)	Terminal 4 (COM)
COM (Green)	Terminal 1 (OPEN / OSC)
** Turn dip switch #4 to ON (UP) ** **This converts Terminal 1 into an OPEN only input.**	

GTR058 double swing connection
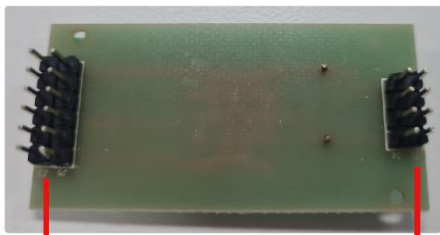
To complete this installation, you will need the 5GTR147SP002 adaptor.
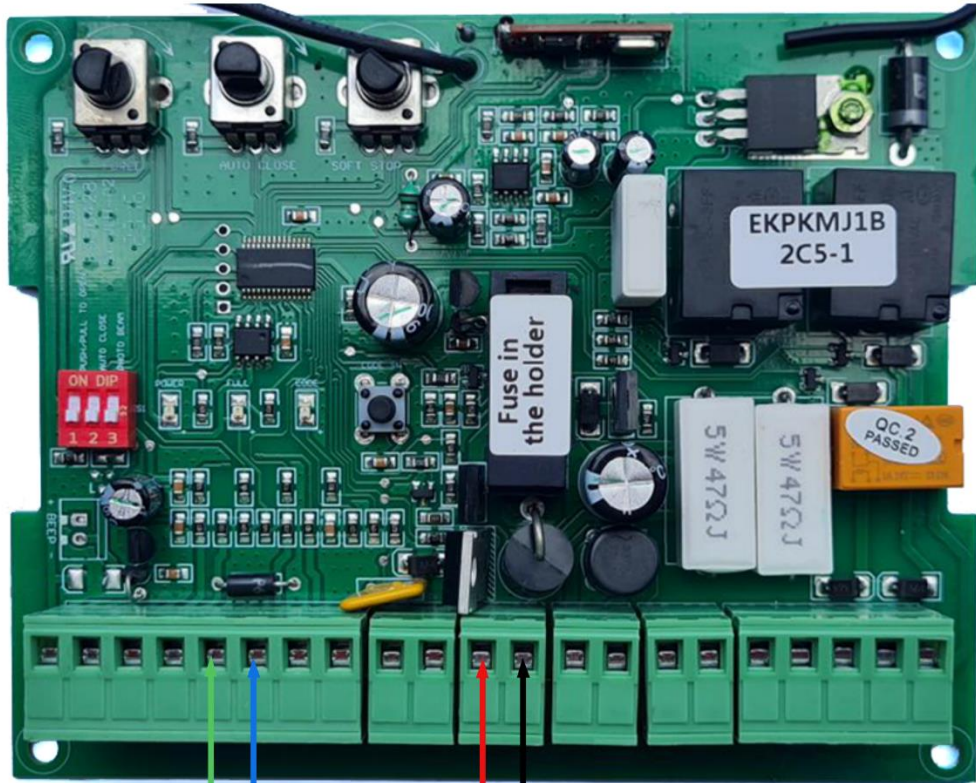(Purchased separately)

This fits into the pins on the top left corner of the PC board.
Image to the left shows the pin inputs.
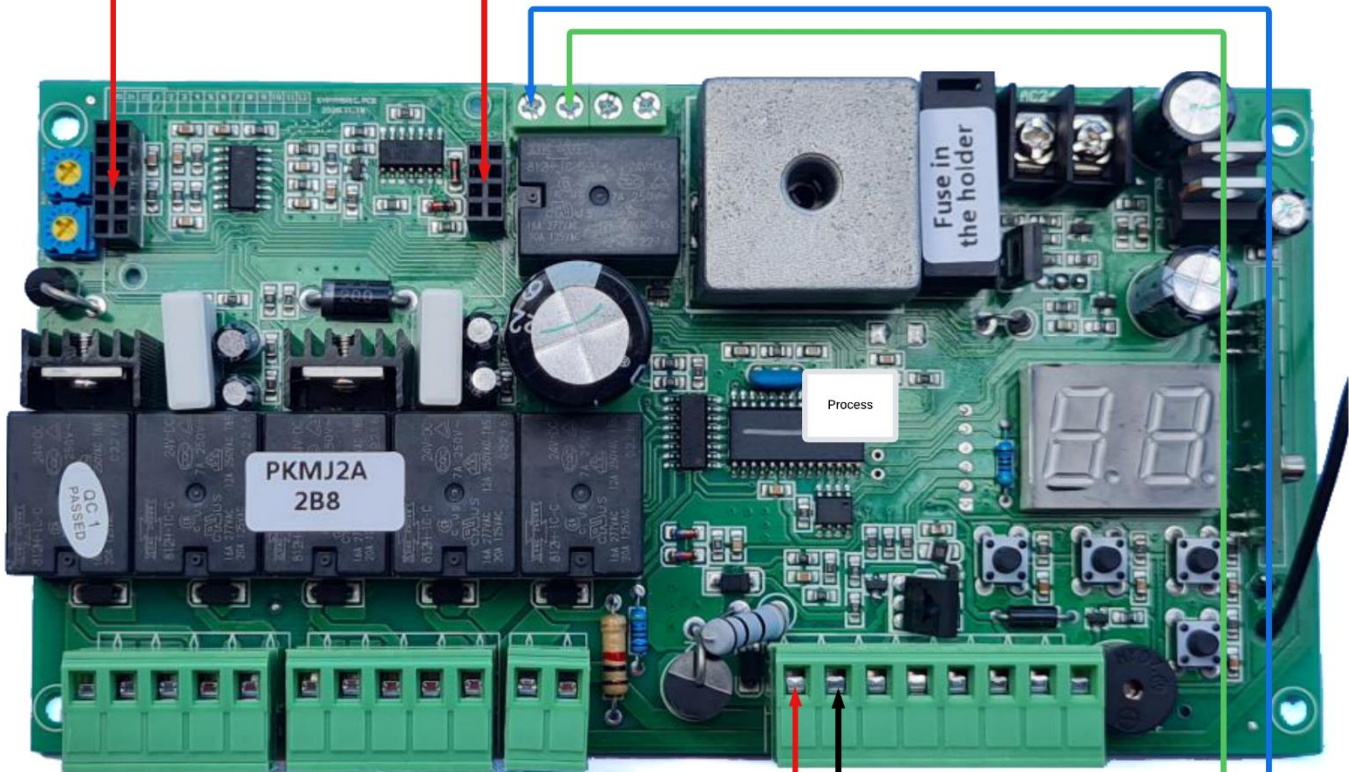
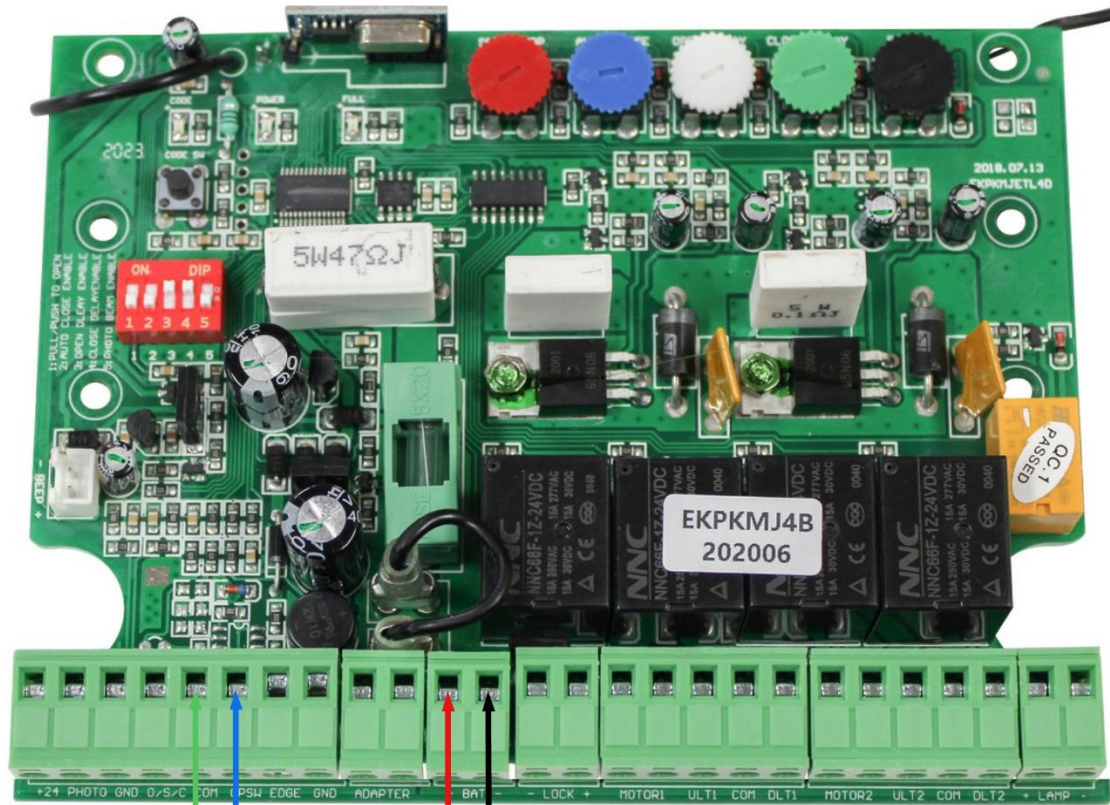| GTR162 terminal	GTR058 terminal
12-24VDC (Red)	Terminal 13 (BAT +)
GND (Black)	Terminal 14 (BAT -)
N / O (Blue)	Loop Terminal Left
COM (Green)	Loop Terminal Right
** Fit the 5GTR147SP002 adaptor **	

GTR099 single swing connection

GTR162 terminal	GTR058 terminal
12-24VDC (Red)	Terminal 11 (BAT +)
GND (Black)	Terminal 12 (BAT -)
N / O (Blue)	Terminal 6 (OPSW)
COM (Green)	Terminal 5 (COM)

GTR062 or GTR078 solar swing connection

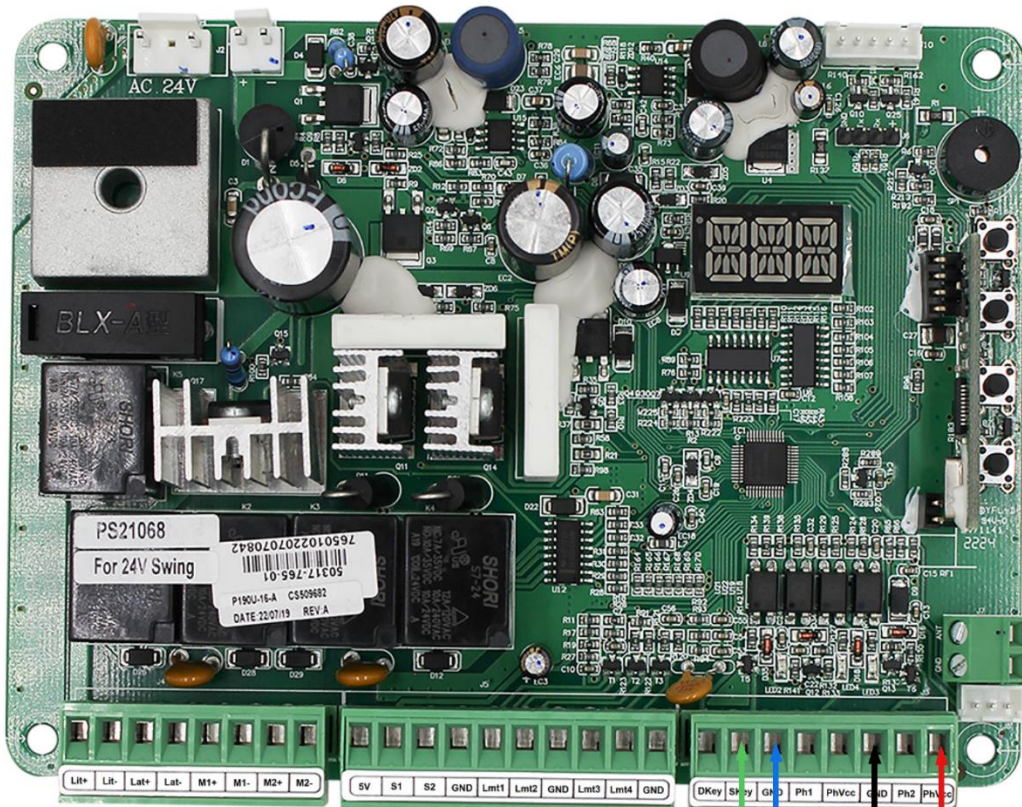| GTR162 terminal	GTR058 terminal
12-24VDC (Red)	Terminal 11 (BAT +)
GND (Black)	Terminal 12 (BAT -)
N / O (Blue)	Terminal 6 (OPSW)
COM (Green)	Terminal 5 (COM)

GTR500 to GTR503 swing and articulated connection

GTR162 terminal	GTR058 terminal
12-24VDC (Red)	Terminal 26 (PhVcc)
GND (Black)	Terminal 24 (GND)
N / O (Blue)	Terminal 21 (GND)
COM (Green)	Terminal 20 (SKey)

** Change SKey setting to OPEN only **
This is accessed via the main settings.

LED display. Menu setting FU
Default is FU1 - Change to FU2