

07\_2011\_utility\_gb

# PROGRAMMING THE RADIO

# **IMPORTANT: BEFORE PROGRAMMING FOR THE FIRST**

# TIME THE RADIO RECEIVER, DELETE ALL THE RECORDED TEST CODES. SEE FUNCTION

IN CASE OF TRANSMITTERS WITH DIP-SWITCHES, SET THE MICROSWITCHES TO CREATE A NEW PERSONAL CODE. (For security reasons avoid to set the microswitches all in OFF or all in ON position).

IN CASE OF HIT TYPE TRANSMITTERS. THE ABOVE MENTIONED PROCEDURE IS NOT NECESSARY BECAUSE EACH TRANSMITTER COMES WITH ITS OWN CODE RANDOM.

## **DISPLAYING STORED CODES**

- Press the button A repeatedly until the display shows 8 Press **button B** until the display shows \_\_\_\_\_. The display will now cycle trough each stored code from 01 to 50.
  - TO ERASE A SINGLE STORES CODE

Press button D when the number of the code to be removed is displayed

### STORING NEW REMOTE CONTROL CODE

- Press the **button A** repeatedly until the display shows g
- Press button B until the display shows 
  Press and hold the remote control button until a dot appears on the display (this means that the receiver is ready to store a new code) and simultaneously press button C to store the new code

#### STORING NEW REMOTE CONTROL CODE with STOP function

- Press the button A repeatedly until the display shows
- Press button B until the display shows r p
  - Press and hold the remote control button until the dot appears on the display and simultaneously press button C to store the new code.

### STORING NEW REMOTE CONTROL CODE with PEDESTRIAN function

- Press the button A repeatedly until the display shows
- and simultaneously press button C to store the new code

### DELETING ALL STORED CODES

- Press the button A repeatedly until the display shows g
- Press button B until the display shows
- Press and hold button D until the display shows -This indicates that all the codes have been erased

# **PROGRAMMING THE Q60S W PARAMETERS**

# WARNING:

Before proceeding with the control board commissioning, check which kind of limit switch is installed on the motor.

The control board is preset to work with electromechanical limit switches.



In case of magnetic limit switch please select parameter:



#### Method 1 = STANDARD Method 2 = SEQUENTIAL

### Warning:

Before powering up and programming the control unit refer to the wiring scheme and then:

- 1 Check that the motor connections are correct
- Check that the photocell connections are correct 2 Important:
  - If the photocells are not installed in closing phase, you must link terminals 3 and 9. If the photocells are not installed in opening phase, you must link terminals 4 and 9.
- 3 Check that the control connections are correct. Important:
- If an emergency stop button is not fitted, you must link terminals 2 and 8.
- Use the motor release key supplied to disengage the electric motor from the mechanical drive: then close the gate and re-engage.
- 5 Power the control unit up

### STANDARD PROGRAMMING PROCESS (Method 1)

- a) Give a START signal (terminal 1 and terminal 8). After an opening movement of about 240mm, the deceleration phase will start (since the control board is pre-adjusted for an opening of 2,50 m). T he motor will wait about 3 seconds and after that will start again with the closing phase.
- b) Give a START signal to verify which functions and times are not suitable with the installation and take note.
- C) Enter the programming phase through the **buttons A** and **B** to reach the wished parameter
- d) Use the buttons C and D to change or confirm every single parameter
- **IMPORTANT:** save the changes by selecting the parameter  $\zeta \parallel$  and pushing the button C.

# Example:

#### Increase the motor working time by 5 seconds

With the switched on control board, ens	ure that the display shows :
Press button A	until the display shows — 🕨 👂 🖁
Press button B	until the display shows
Wait	until the display shows — 🌔 2 /
Press 5 times the C	until the display shows — 🌔 26
Press button B	until the display shows —— 🕨 5 🛿
Press the button C for some seconds The motor working time has been increase	until the display shows — – – – d from 21 to 26 seconds

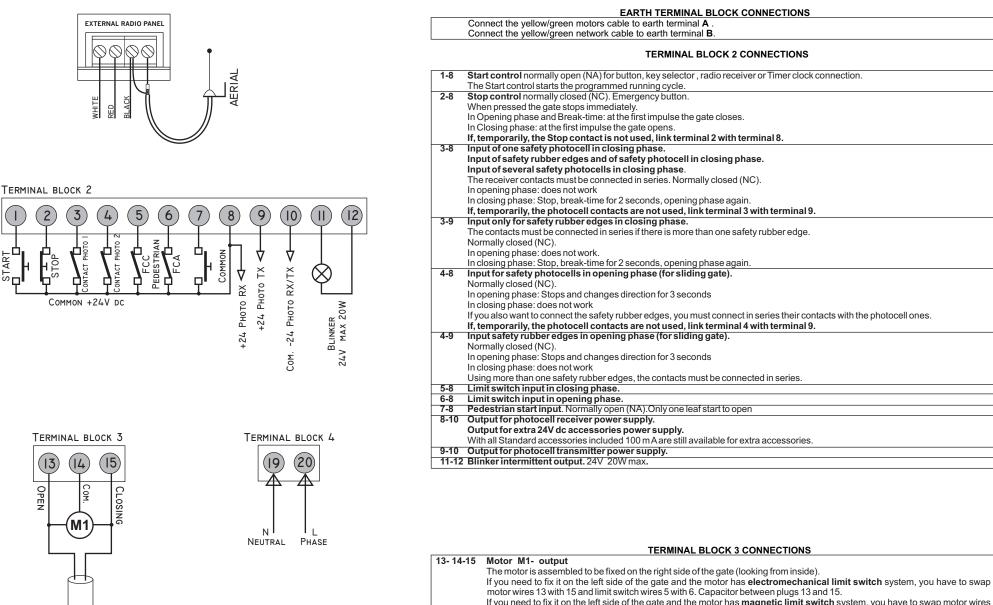
### SEQUENTIAL PROGRAMMING (method 2)

### SLIDING GATE SEQUENTIAL PROGRAMMING

- a) Press button A (steps through the top menu) until the display shows
- b) Press button B (steps through the sub-menu) until the display shows II
- c) Give a **START** signal: the leaf starts opening and the display shows  $\prod$
- d) Wait until the leaf has done the 90% of the opening cycle and then give another START signal: the display shows r and the deceleration phase begins.
- When the opening phase has been completed (**OPENING LIMIT SWITCH**) and the display shows  $E^{P}$ , the control board has stored the e) opening and deceleration times and starts calculating the "stay open" (pause) time
- f) At the reaching of the desired pause time, give another **START** impulse. The control board has stored the "stay open" time and the gate starts the closing cycle.
- When the closing cycle has completely finished, till the complete closure of the gate, the control unit automatically exits from the sequential programming process and all the working times have been saved.
- SELF-DIAGNOSIS DISPLAY MESSAGES SPECIAL FUNCTIONS Limit switch Motor problem (wiring Photocell's test error AUTOMATIC CLOSING FUNCTION MULTI-USER FUNCTION fault, obstruction or in opening phase When set to YES ("SI"): when set to YES ("SI"): torque setting too low) - an impulse during the opening phase will stop the The control unit will not accept any PHOTOCELL OR SAFETY RUBBER EDGE Limit switch ٥ F motors until another impulse is received command during the opening phase IN OPENING PHASE in closing phase П L - an impulse during the closing phase will stop and reverse the motors Closing phase photocell Pedestrian start signal E P beam interruoted (short circuit between When set to NO, the step-by-step operation is active: or wiring fault terminal7 & 8) 1<sup>st</sup> impulse starts the opening phase Both opening and closing Start signal 2<sup>nd</sup> impulse stops the opening phase (short circuit between phase photocell beam D П - 3<sup>rd</sup> impulse starts the **closing phase** interrupted or wiring fault terminal 1 & 8) Stop pressed Radio fob E (or open circuit between continuously terminal 2 & 8) trasmitting

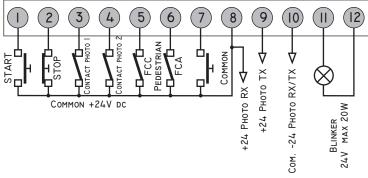
#### **TERMINAL BLOCK CONNECTIONS**

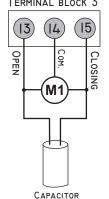
All the connections must be done without power supply.



If you need to fix it on the left side of the gate and the motor has magnetic limit switch system, you have to swap motor wires 13 with 15 and keep unchanged the limit switch wires. PLEASE PAY ATTENTION TO REVERSE THE MAGNET SUPPORTS. Capacitor between plugs 13 and 15.

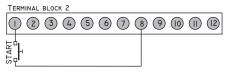
	TERMINAL BLOCK 4 CONNECTIONS	
19-20	<b>19-20</b> Power input 230-240 Vac - 50/60 Hz. (19=Neutral - 20=phase)	

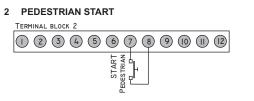




# WIRING SCHEME FOR THE Q60RS CONTROL UNIT



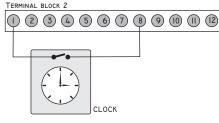




KEY SWITCH

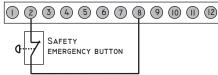
TERMINAL BLOCK 2

# 3 PERMANENT START COMMAND WITH TIMER



# 4 EMERGENCY STOP BUTTON

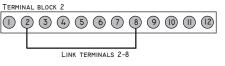
TERMINAL BLOCK 2



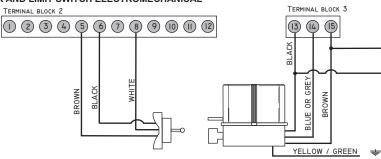


(12)

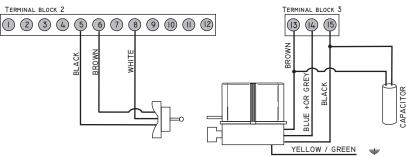
N.B.: Link terminals 2 and 8 if an emergency STOP button is NOT USED



## 5 MOTOR AND LIMIT SWITCH ELECTROMECHANICAL

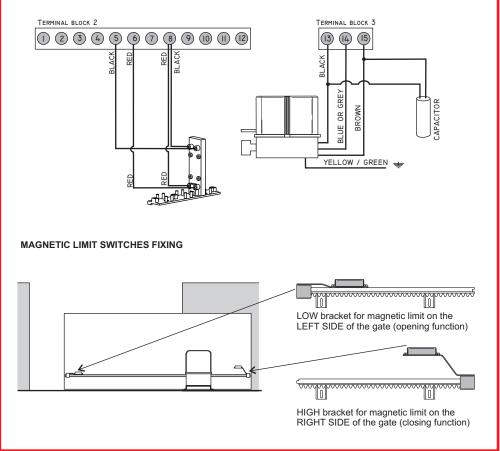


#### IF IT IS MOUNTED ON THE LEAF-HAND SIDE (looking the inside) TO INVERT WIRE 13 WITH WIRE 15 END WIRE 5 WITH WIRE 6



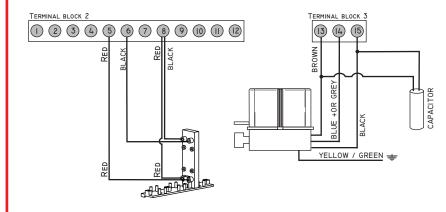
WIRING SCHEME FOR MOTOR ON THE RIGHT SIDE AND GATE CLOSING LEFT (inside view)

## MOTOR WIRING

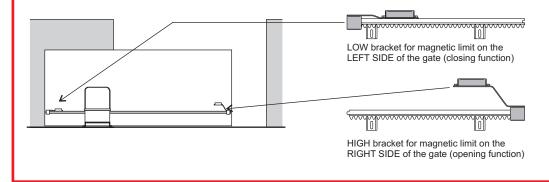


WIRING SCHEME FOR MOTOR ON THE LEFT SIDE AND GATE CLOSING RIGHT (inside view)

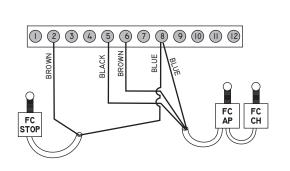
#### MOTOR WIRING

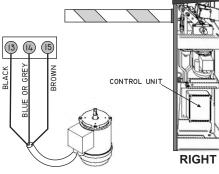


MAGNETIC LIMIT SWITCHES FIXING

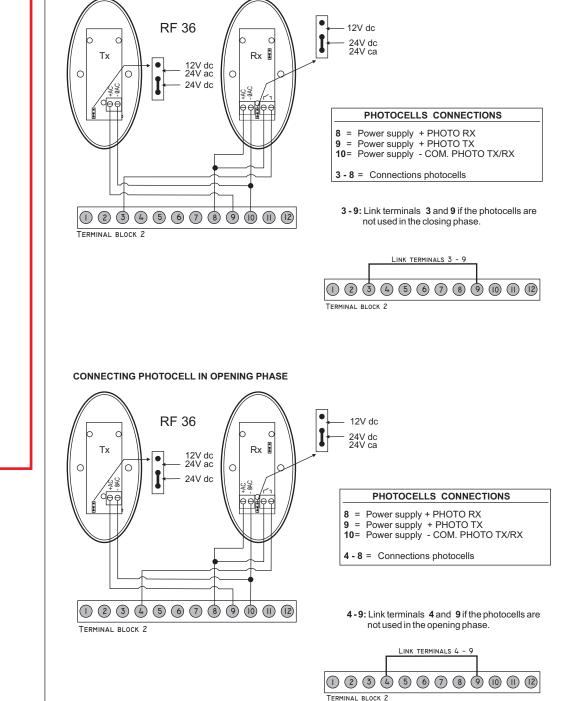


MOTOR AND LIMIT SWITCH WIRING IN CASE OF USE WITH ROAD BARRIER





6 CONNECTING PHOTOCELL IN CLOSING PHASE



N.B.: TO REVERSE THE OPENING SIDE PLEASE SEE THE BARRIER INSTRUCTION MANUAL