

05_2007_prof_gb

PROGRAMMING THE RADIO

IMPORTANT: BEFORE PROGRAMMING FOR THE FIRST TIME THE RADIO RECEIVER, DELETE ALL THE RECORDED TEST CODES. SEE FUNCTION C AT THE BOTTOM OF THIS CHAPTER

WARNING:

FIN

FIn

Method 1 = STANDARD Method 2 = SEQUENTIAL

Important:

Important:

Power the control unit up

installation and take note.

Warning:

3

4

5

C)

d)

e)

parameter

switch is installed on the motor.

-> N0

-> YES

In case of magnetic limit switch please select parameter:

Check that the motor connections are correct

2 Check that the photocell connections are correct

Check that the control connections are correct.

a) Give a START signal (terminal 1 and terminal 8).

button C

mechanical drive: then close the gate and re-engage.

the control board is pre-adjusted for an opening of 2.50 m). T

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

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

If the photocells are not installed in closing phase, you must link terminals 3 and 9.

If an emergency stop button is not fitted, you must link terminals 2 and 8.

If the photocells are not installed in opening phase, you must link terminals 4 and 9.

Use the motor release key supplied to disengage the electric motor from the

STANDARD PROGRAMMING PROCESS (Method 1)

After an opening movement of about 240mm, the deceleration phase will start (since

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

Enter the programming phase through the buttons A and B to reach the wished

IMPORTANT: save the changes by selecting the parameter $S \parallel$ and pushing the

Use the buttons **C** and **D** to change or confirm every single parameter

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 rPress button B until the display shows r 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 r HΈC
 - Press button B until the display shows ξc
 - 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 r RPress **button B** until the display shows [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.

T STORING NEW REMOTE CONTROL CODE with PEDESTRIAN function **Press the button A** reneatedly until the display shows = ⁰

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

DELETING ALL STORED CODES

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

PROGRAMMING THE Q60S W PARAMETERS



Example: Before proceeding with the control board commissioning, check which kind of limit

Increase the motor working time by 5 seconds

With the switched on control board, ens	sure 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 \longrightarrow 25
Press button B	until the display shows — 🕨 5 []
Press the button C for some seconds	until the display shows —

The motor working time has been increased from 21 to 26 seconds

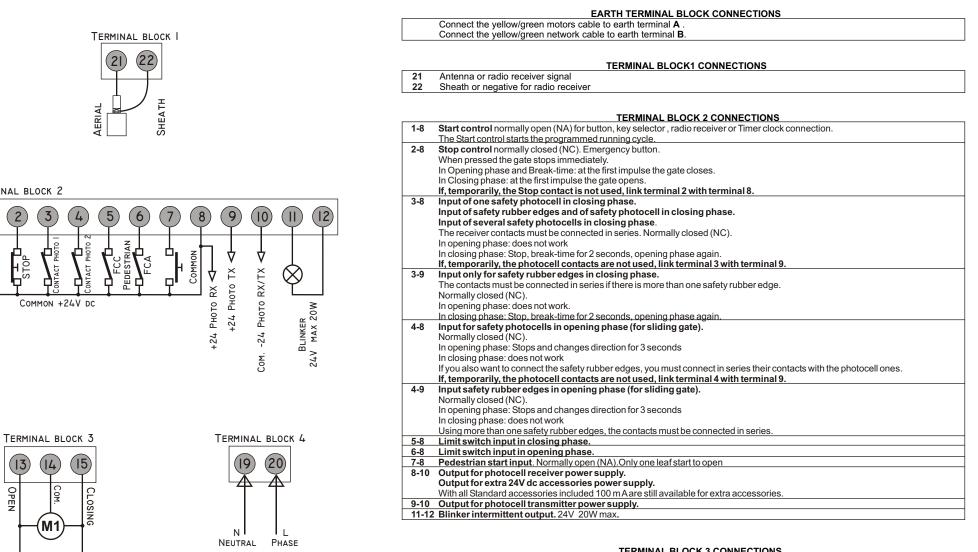
SEQUENTIAL PROGRAMMING (method 2)

SLIDING GATE SEQUENTIAL PROGRAMMING

- a) Press button A (steps through the top menu) until the display shows $\frac{3}{12}$
- 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 III
- 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 \mathcal{EP} , 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 p Photocell's test error MULTI-USER FUNCTION AUTOMATIC CLOSING 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 Fotocellula o Limit switch motors until another impulse is received command during the opening phase in closing phase Costa di sicurezza ΠÌ - an impulse during the closing phase will stop and in apertura reverse the motors Closing phase photocell E Pedestrian start signal beam interruoted (short circuit between When set to NO, the step-by-step operation is active: or wiring fault terminal7 & 8) - 1st impulse starts the opening phase Both opening and closing Start signal - 2nd impulse stops the opening phase phase photocell beam (short circuit between O П - 3rd impulse starts the closing phase interrupted or wiring fault terminal 1 & 8) Stop pressed Radio fob F (or open circuit between continuously terminal 2 & 8) trasmitting

TERMINAL BLOCK CONNECTIONS

All the connections must be done without power supply.



TERMINAL BLOCK 2

STOP.

14

́М1

CAPACITOR

OPEN

START

	TERMINAL BLOCK 3 CONNECTIONS
13- 14-15	Motor M1- output
	The motor is assembled to be fixed on the right side of the gate (looking from inside).
	If you need to fix it on the left side of the gate and the motor has electromechanical limit switch system, you have to swap motor wires 13 with 15 and limit switch wires 5 with 6. Capacitor between plugs 13 and 15.
	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.

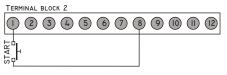
	TERMINAL BLOCK 4 CONNECTIONS
19-20	Power input 230-240 Vac - 50/60 Hz. (19=Neutral - 20=phase)

WIRING SCHEME FOR THE Q60S CONTROL UNIT

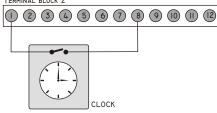
2 PEDESTRIAN START

TERMINAL BLOCK 2



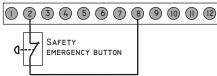


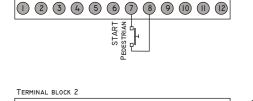
3 PERMANENT START COMMAND WITH TIMER TERMINAL BLOCK 2

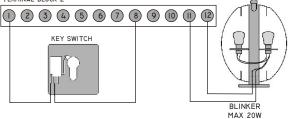


4 EMERGENCY STOP BUTTON

TERMINAL BLOCK 2

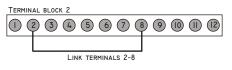




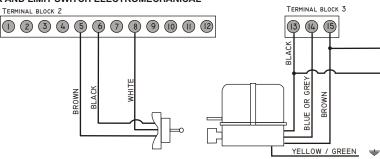


ACI.

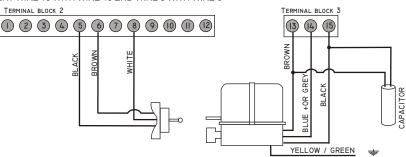
N.B.: Link terminals 2 and 8 if an emergency STOP button is NOT USED



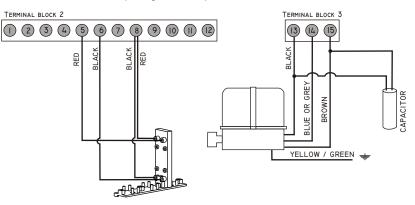
5 MOTOR AND LIMIT SWITCH ELECTROMECHANICAL



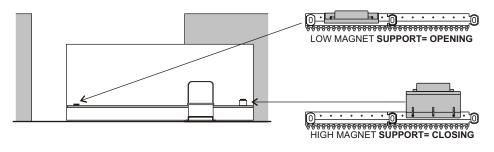
IF IT IS MOUNTED ON THE LEAF-HAND SIDE (looking the inside) TO INVERT WIRE 13 WITH WIRE 15 END WIRE 5 WITH WIRE 6



MOTOR AND MAGNETIC LIMIT SWITCH WIRING FOR MOTOR FIXED ON THE RIGHT SIDE OF THE GATE (looking from inside)

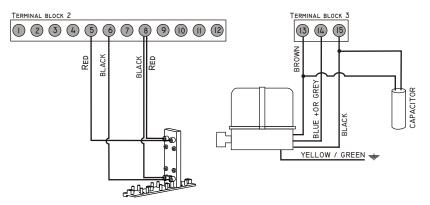


MAGNET SUPPORTS POSITION ON THE RACK IN CASE OF MOTOR FIXED ON THE RIGHT SIDE OF THE GATE AND CLOSING TO THE LEFT (looking from inside)

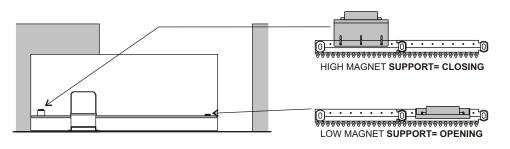


N.B. THE HIGH MAGNET SUPPORT HAS ALWAYS TO BE USED FOR THE CLOSING MOVEMENT

IN CASE OF MOTOR FIXED ON THE LEFT SIDE OF THE GATE (looking from inside) SWAP MOTOR WIRE 13 WITH THE 15 AND CHANGE THE POSITION OF THE MAGNET SUPPORTS



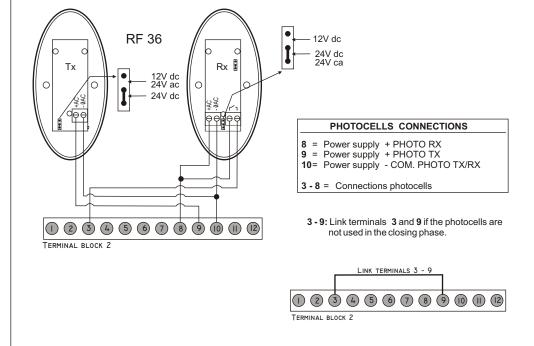
MAGNET SUPPORTS POSITION ON THE RACK IN CASE OF MOTOR FIXED ON THE LEFT SIDE OF THE GATE AND CLOSING TO THE RIGHT (looking from inside)



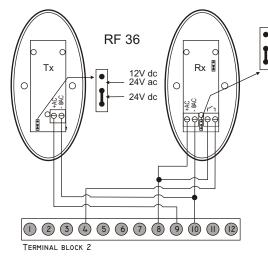
N.B. THE HIGH MAGNET SUPPORT HAS ALWAYS TO BE USED FOR THE CLOSING MOVEMENT

(13)

6 CONNECTING PHOTOCELL IN CLOSING PHASE



CONNECTING PHOTOCELL IN OPENING PHASE

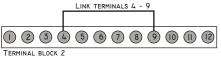


PHOTOCELLS CONNECTIONS 8 = Power supply + PHOTO RX 9 = Power supply + PHOTO TX 10= Power supply - COM. PHOTO TX/RX 4 - 8 = Connections photocells

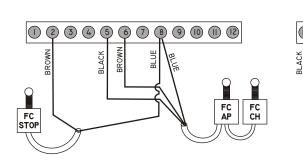
12V dc

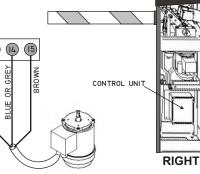
24V dc 24V ca

4-9: Link terminals 4 and 9 if the photocells are not used in the opening phase.



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





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