

# 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

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 \_ R

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 \_ A

Press button B until the display shows L C 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 co 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

Press button B until the display shows purely 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
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:

FIn -- YES

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 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.
- Check that the control connections are correct,

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.
- Power the control unit up

### STANDARD PROGRAMMING PROCESS (Method 1)

- 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.
- Give a START signal to verify which functions and times are not suitable with the installation and take note.
- Enter the programming phase through the buttons A and B to reach the wished parameter
- Use the buttons C and D to change or confirm every single parameter
- IMPORTANT: save the changes by selecting the parameter 5 // and pushing the

# Increase the motor working time by 5 seconds

With the switched on control board, ensure that the display shows: -----Press button A until the display shows ----> PR Press button B until the display shows ----- 21 Wait until the display shows ----> 25 Press 5 times the C Press button B until the display shows ---- 511 until the display shows ----Press the button C for some seconds 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 75
- b) Press button B (steps through the sub-menu) until the display shows III
- Give a START signal: the leaf starts opening and the display shows III
- 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
- When the opening phase has been completed (OPENING LIMIT SWITCH) and the display shows EP, the control board has stored the opening and deceleration times and starts calculating the "stay open"
- 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

Photocell's test error

Closing phase photocell

Both opening and closing

beam interruoted

or wiring fault

PHOTOCELL OR SAFETY RUBBER EDGE

Limit switch in opening phase

Limit switch in closing phase

Pedestrian start signal (short circuit between terminal7 & 8)

Start signal (short circuit between terminal 1 & 8)

Motor problem (wiring fault, obstruction or torque setting too low)

## SPECIAL FUNCTIONS

AUTOMATIC CLOSING FUNCTION When set to YES ("SI"):

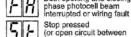
- an impulse during the opening phase will stop the motors until another impulse is received
- an impulse during the closing phase will stop and reverse the motors

When set to NO, the step-by-step operation is active:

- 14 impulse starts the opening phase
- 2" impulse stops the opening phase
- 3" impulse starts the closing phase

MULTI-USER FUNCTION when set to YES ("SI"):

The control unit will not accept any command during the opening phase

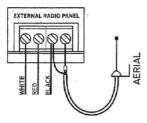


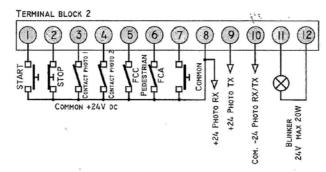
Stop pressed (or open circuit between terminal 2 & 8)

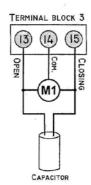


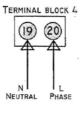
Radio fob continuously trasmitting











## TERMINAL BLOCK CONNECTIONS

All the connections must be done without power supply.

EARTH TERMINAL BLOCK CONNECTIONS
Connect the yellow/green motors cable to earth terminal A. Connect the yellow/green network cable to earth terminal B.

1-8	TERMINAL BLOCK 2 CONNECTIONS Start control normally open (NA) for button, key selector, radio receiver or Timer clock connection.	
	The Start control starts the programmed running cycle.	
2-8	Stop control normally closed (NC). Emergency button,	
	When pressed the gate stops immediately.	
	In Opening phase and Break-time; at the first impulse the gate closes.	
	In Closing phase: at the first impulse the gate opens.	
	If, temporarily, the Stop contact is not used, link terminal 2 with terminal 8.	
3-8	Input of one safety photocell in closing phase.	
	Input of safety rubber edges and of safety photocell in closing phase.	
	Input of several safety photocells in closing phase.	
	The receiver contacts must be connected in series, Normally closed (NC).	
	In opening phase: does not work	
	In closing phase; Stop, break-time for 2 seconds, opening phase again,	
	If, temporarily, the photocell contacts are not used. link terminal 3 with terminal 9.	
3-9	Input only for safety rubber edges in closing phase.	
	The contacts must be connected in series if there is more than one safety rubber edge.	
	Normally closed (NC).	
	In opening phase: does not work.	
	In closing phase: Stop, break-time for 2 seconds, opening phase agein.	
4-8	Input for safety photocells in opening phase (for sliding gate).	
	Normally closed (NC).	
	In opening phase: Stops and changes direction for 3 seconds	
	In closing phase: does not work	
	If you also want to connect the safety rubber edges, you must connect in series their contacts with the photocell ones,	5.4
	If, temporarily, the photocell contacts are not used, link terminal 4 with terminal 9.	
4-9	Input safety rubber edges in opening phase (for sliding gate).	
	Normally closed (NC).	
	In opening phase: Stops and changes direction for 3 seconds	
	In closing phase: does not work	
	Using more than one safety rubber edges, the contacts must be connected in series,	
	Limit switch input in closing phase.	
	Limit switch input in opening phase.	
	Pedestrian start input. Normally open (NA). Only one leaf start to open	
8-10	Output for photocell receiver power supply.	
	Output for extra 24V dc accessories power supply.	
	With all Standard accessories included 100 m A are still available for extra accessories.	
	Output for photocell transmitter power supply.	
	Blinker intermittent output, 24V 20W max.	

## **TERMINAL BLOCK 3 CONNECTIONS**

13-14-15	Motor M1-	outpu
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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.

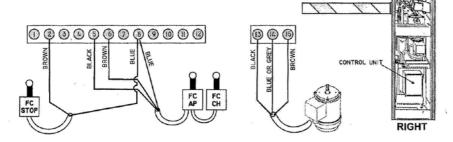
If you need to fix it on the left side of the gate and the motor has magnetic limit switch system, you have to swap motor wires 13 with 15 and keep unchanged the limit switch wires. PLEASE PAY ATTENTION TO REVERSE THE MAGNET SUPPORTS.

Capacitor between plugs 13 and 15.

TERMINAL BLOCK 4 CONNECTIONS

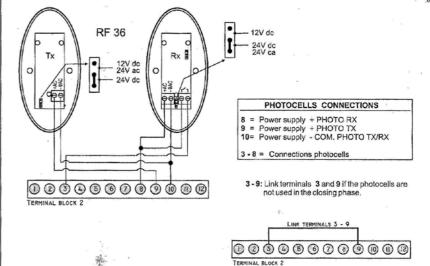
19-20 Power input 230-240 Vac-50/60 Hz. (19=Neutral - 20=phase)

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

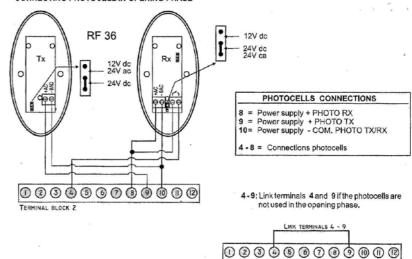


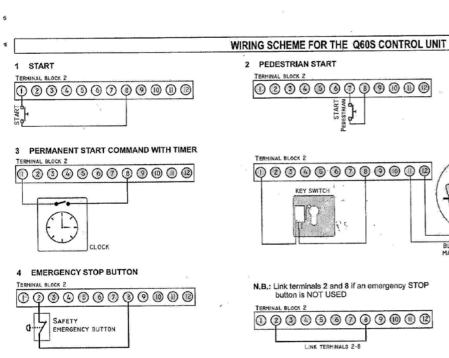
N.B.: TO REVERSE THE OPENING SIDE PLEASE SEE THE BARRIER INSTRUCTION MANUAL

## 6 CONNECTING PHOTOCELL IN CLOSING PHASE

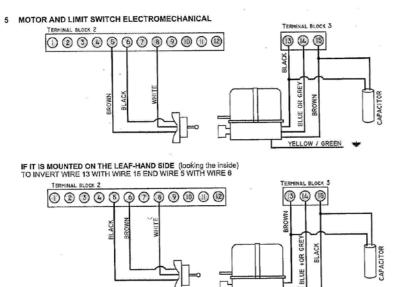


#### CONNECTING PHOTOCELL IN OPENING PHASE

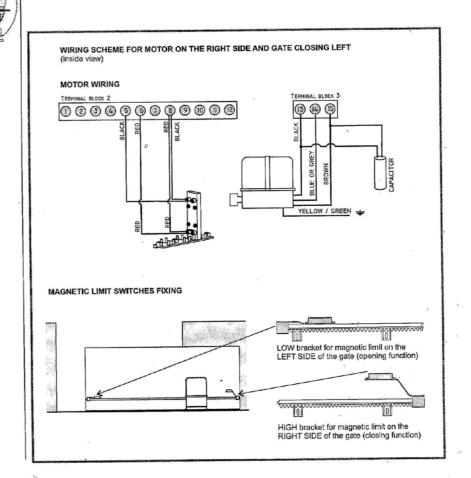


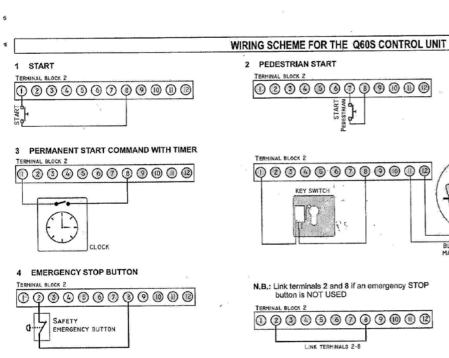


MAX 20W

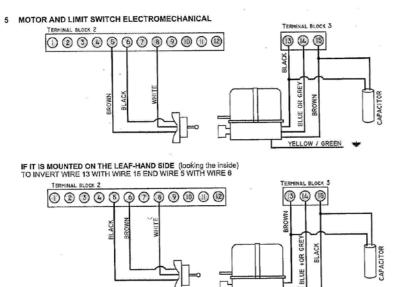


YELLOW / GREEN





MAX 20W



YELLOW / GREEN

