


EXTERNAL RADIO PANEL

PROGRAMMING THE RADIO


IMPORTANT: BEFORE PROGRAMMING FOR THE FIRST TIME THE RADIO RECEIVER, DELETE ALL THE RECORDED TEST CODES. SEE FUNCTION  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 

Press **button B** until the display shows 


The display will now cycle through 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 

- 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 

- 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 


- Press **button B** until the display shows 

- 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

SELF-DIAGNOSIS DISPLAY MESSAGES

PHOTOCELL'S TEST ERROR

OPENING PHASE PHOTOCELL BEAM INTERRUPTED OR WIRING FAULT

CLOSING PHASE PHOTOCELL BEAM INTERRUPTED OR WIRING FAULT

BOTH OPENING AND CLOSING PHASE PHOTOCELL BEAM INTERRUPTED OR WIRING FAULT

STOP PRESSED (OR OPEN CIRCUIT BETWEEN TERMINAL 2 & 8)

PEDESTRIAN START SIGNAL (SHORT CIRCUIT BETWEEN TERMINAL 7 & 8)

START SIGNAL (SHORT CIRCUIT BETWEEN TERMINAL 1 & 8)

RADIO FOB CONTINUOUSLY TRANSMITTING

MOTOR 1 PROBLEM (WIRING FAULT, OBSTRUCTION OR TORQUE SETTING TOO LOW)

MOTOR 2 PROBLEM (SEE 'n1' ABOVE)

BOTH MOTORS PROBLEM (SEE 'n1' ABOVE)

PROGRAMMING THE Q60A PARAMETERS

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
- 2 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.


- 3 Check that the control connections are correct.

Important:

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

- 4 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 by either turning the key switch or by another control device (terminals 1 and 8)
 - b) Wait until the gate has finished a complete (pre-programmed) **OPEN/STOP/WAIT/CLOSE** cycle.
 - c) Give another **START** signal and not which parameter need adjusting
 - d) Press **button A** on the control unit to select the Parameters menu.
 - e) Press **button B** repeatedly until the display shows the parameter that you need to change
 - f) Use **buttons C and D** to change or confirm each parameter as necessary
- IMPORTANT:** press **button B** repeatedly until the display shows  and then press **button C** to save the changes.

Example:


Increase the **Motor 1** working time by **2 seconds**

With the control board switched on, ensure that the display shows: 

Press **button A** (steps thru the top menu) until the display shows 

Press **button B** (steps thru the sub-menu) until the display shows 

Wait until the display shows the currents setting, for example 






Press **button C** twice until the display shows 

Press **button B** repeatedly until the display shows 








Press and hold **button C** until the relays click and the display shows 

SEQUENTIAL PROGRAMMING (method 2)

SEQUENTIAL programming for gates with only one leaf

- a) Press **button A** (steps thru the top menu) until the display shows 
- b) Press **button B** (steps thru the sub-menu) until the display shows 
- c) Give a **START** signal: the leaf starts opening and the display shows 
- d) Wait until the leaf has done the 90% of the opening cycle and then give another **START** signal: the display shows  and the deceleration phase begins
- e) Wait 4/5 seconds after the opening cycle has completely finished and give a **START** signal.
- f) The display shows , the control unit has stored the opening and deceleration times and is now calculating the "**stay open**" time
- g) Give a **START** signals to stop calculating the "**stay open**" time and start the **CLOSING CYCLE**.
- g) When the closing cycle has completely finished, the control unit automatically exits from the sequential programming process and all the working times have been saved.

SEQUENTIAL programming for gates with two leaf

- a) Press **button A** (steps thru the top menu) until the display shows 
- b) Press **button B** (steps thru the sub-menu) until the display shows 
- c) Give a **START** signal:
The leaf 1 starts opening and the display shows 
- d) Wait until the **leaf 1** has done the 90% of the opening cycle and then give another **START** signal: the display shows  and the deceleration phase of **leaf 1** begins
- e) Wait 4/5 seconds after the **leaf 1** has completely opened and give another **START** signal. The display shows  and the **leaf 2** starts opening
- f) Wait until the **leaf 2** has done the 90% of the opening cycle and then give another **START** signal: the display shows  and the deceleration phase of **leaf 2** begins
- g) Wait 4/5 seconds after the **leaf 2** has completely opened and give another **START** signal.
- h) The display shows , the control unit has stored the opening and deceleration times of both leaves and is now calculating the "**stay open**" time
- i) Give a **START** signals to stop calculating the "**stay open**" time and **start the closing cycle**.
- l) When the **closing cycle** has completely finished, the control unit automatically exits from the sequential programming process and all the working times have been saved.

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:

- 1st impulse starts the **opening phase**
- 2nd impulse stops the **opening phase**
- 3rd impulse starts the **closing phase**

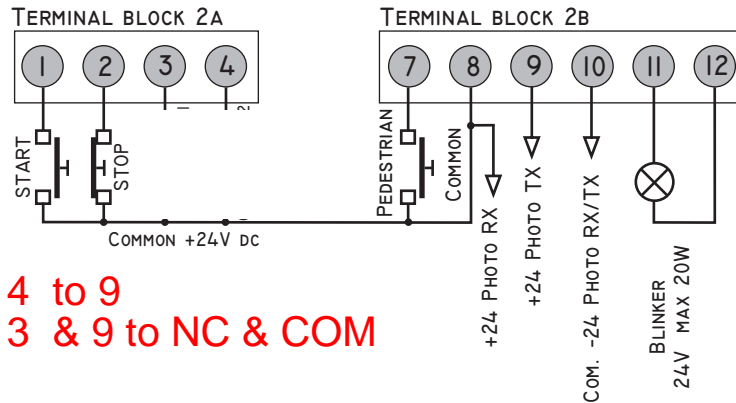
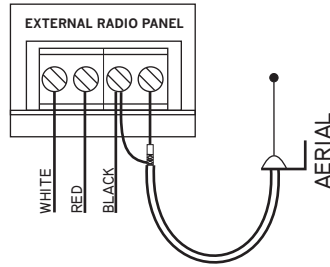
MULTI-USER FUNCTION

when set to **YES** ("SI"):

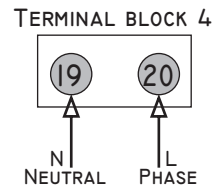
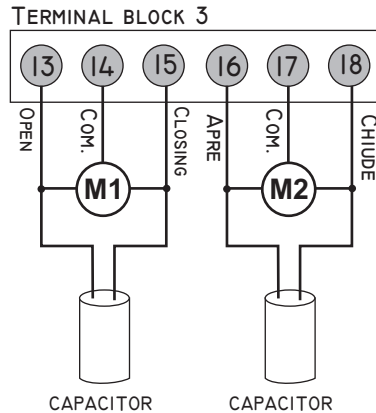
The control unit will not accept any command during the opening phase

TERMINAL BLOCK CONNECTIONS

All the connections must be done without power supply.



4 to 9
3 & 9 to NC & COM



EARTH TERMINAL BLOCK CONNECTIONS

Connect the yellow/green network cable and the yellow/green motor cables to earth terminals **A B C**.

TERMINAL BLOCK 2 CONNECTIONS

1-8	Start control normally open (NA) for button, key selector, radio receiver or Timer clock connections. 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: at the first impulse the gate closes. 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 again.
4-8	Input for safety photocells in opening phase (for swing gate). Normally closed (NC). In opening phase: Stops until the obstacle has not been removed In closing phase: Stops and changes direction when the obstacle has been removed If you also want to connect the safety rubber edges, you must connect in series their contacts with the photocell ones. If temporarily the photocell contacts are not used, link terminal 4 with terminal 9.
4-9	Input for safety rubber edges in opening phase (for swing gate). Normally closed (NC). In opening phase: Stops until the obstacle has not been removed In closing phase: Stops and changes direction when the obstacle has been removed The contacts should be connected in series.
7-8	Pedestrian start input. Normally open (NA).
8-10	Output for photocell receiver power supply. Output for extra 24V dc accessories power supply. With all Standard accessories included 100 mA are still available for extra accessories.
9-10	Output for photocell transmitter power supply.
11-12	Blinker intermittent output. 24V 20W max.

TERMINAL BLOCK 3 CONNECTIONS

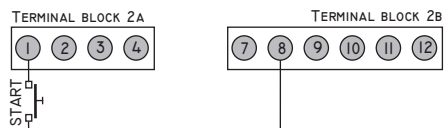
13-14-15	Motor M1- output Leaf that opens firstly and that delays in closing phase. In case of a gate of one single leaf connect the motor to output M1 , select parameter P5 on SI, confirm with SU and save with push button C . CAPACITOR between terminal 13 and 15
16-17-18	Motor M2- output Leaf that opens secondly. CAPACITOR between terminal 16 and 18

TERMINAL BLOCK 4 CONNECTIONS

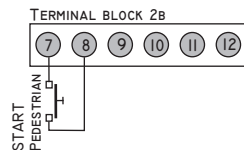
19-20	Power input 230-240 Vac - 50/60 Hz. (19=Neutral - 20=phase)
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WIRING SCHEME FOR THE Q60A NEW CONTROL UNIT

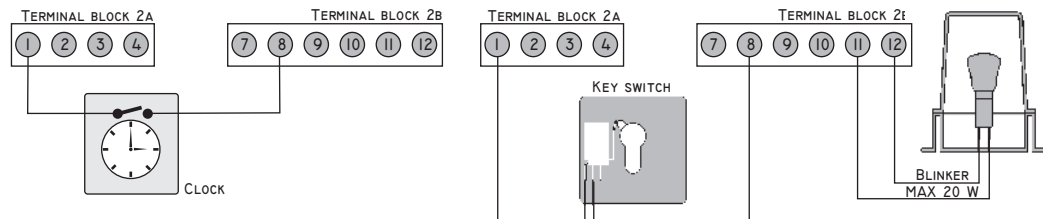
1 START



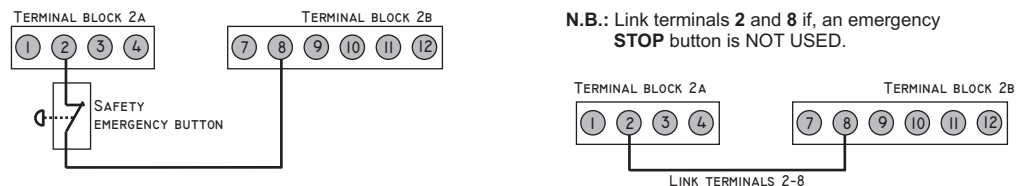
2 PEDESTRIAN START



3 PERMANENT START COMMAND WITH TIMER

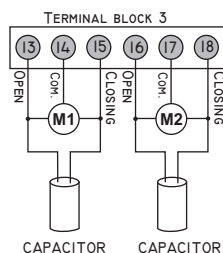
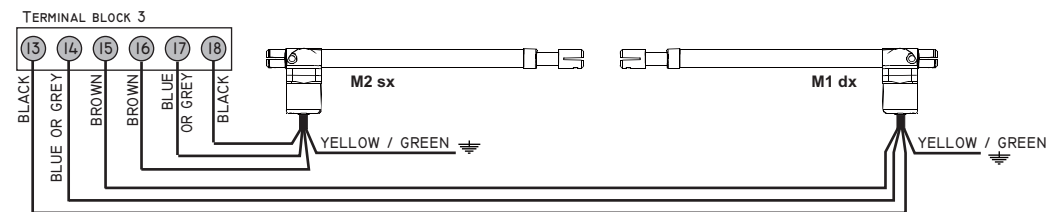
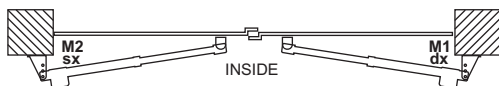


4 EMERGENCY STOP BUTTON

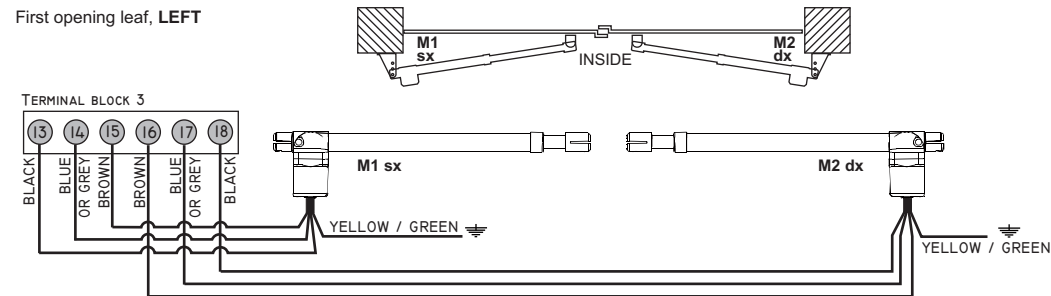


5 MOTORS CONNECTIONS

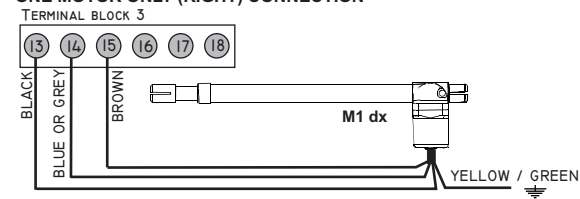
MyAster First opening leaf, RIGHT



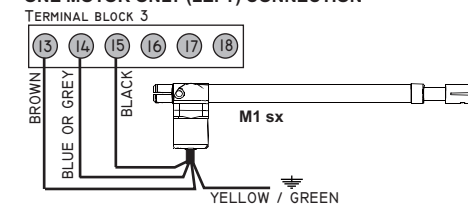
First opening leaf, LEFT



ONE MOTOR ONLY (RIGHT) CONNECTION

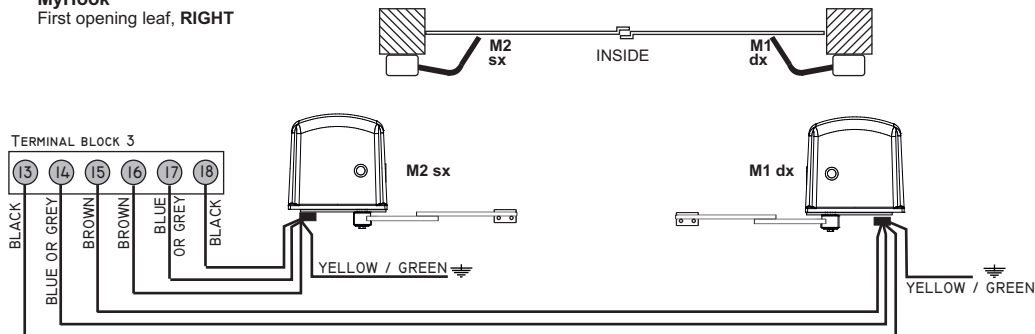


ONE MOTOR ONLY (LEFT) CONNECTION

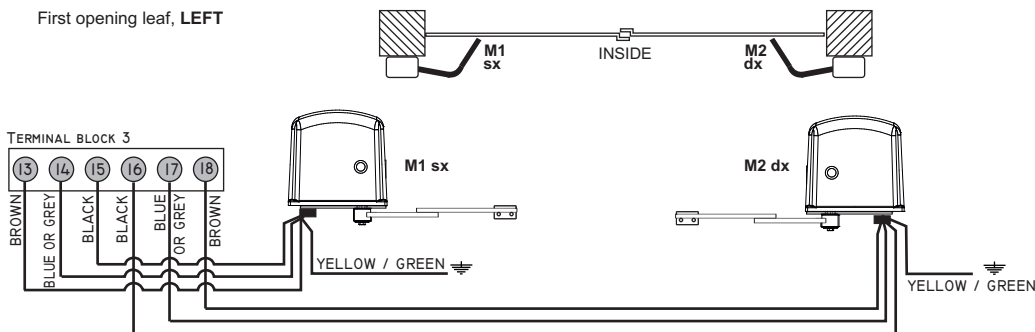


MyHook

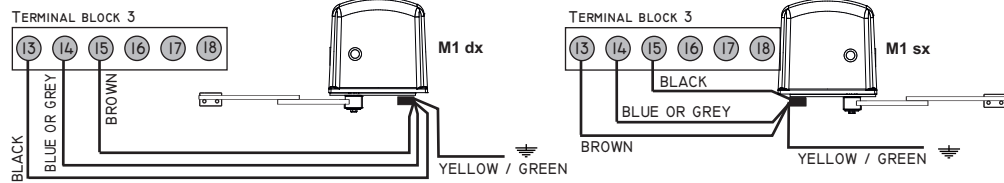
First opening leaf, RIGHT



First opening leaf, LEFT

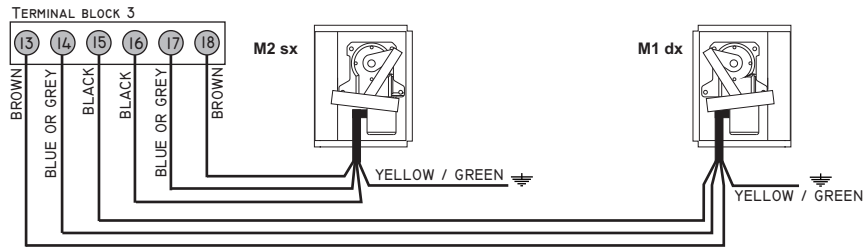
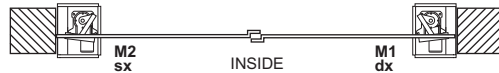


ONE MOTOR ONLY (RIGHT) CONNECTION

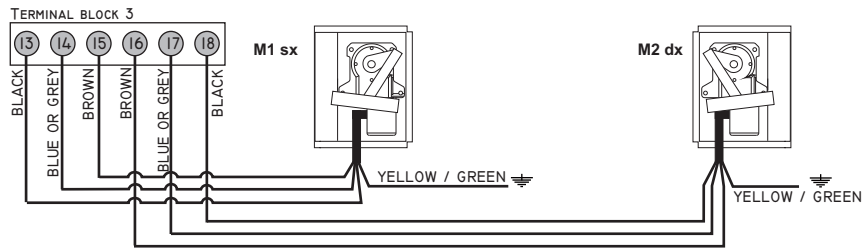


MyShark

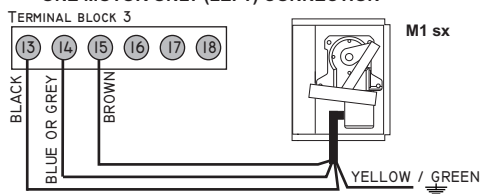
First opening leaf, **RIGHT**



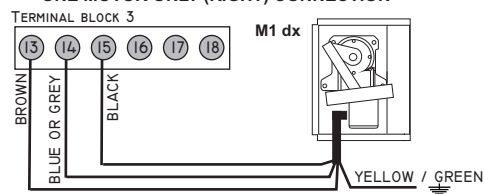
First opening leaf, **LEFT**



ONE MOTOR ONLY (LEFT) CONNECTION

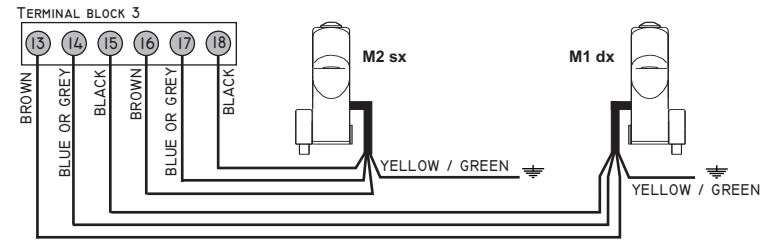
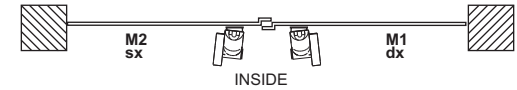


ONE MOTOR ONLY (RIGHT) CONNECTION

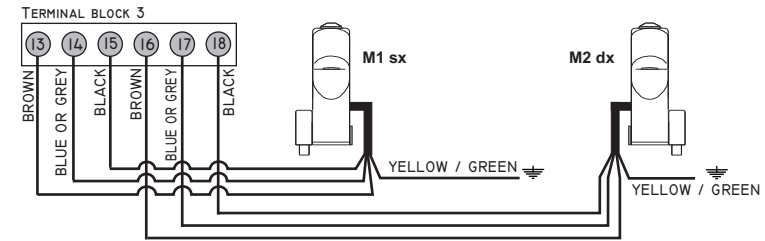
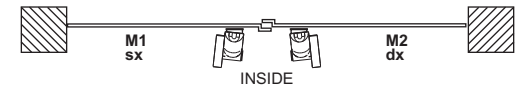


MyFlow

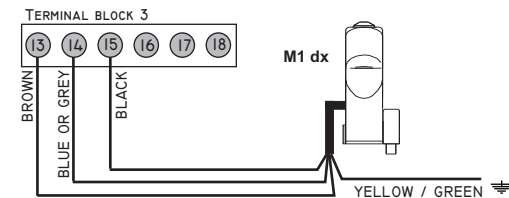
First opening leaf, **RIGHT**



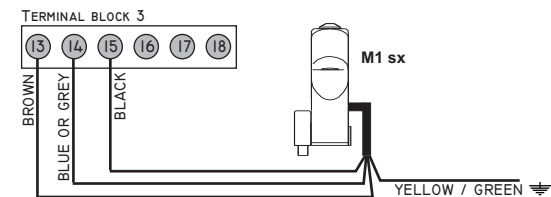
First opening leaf, **LEFT**



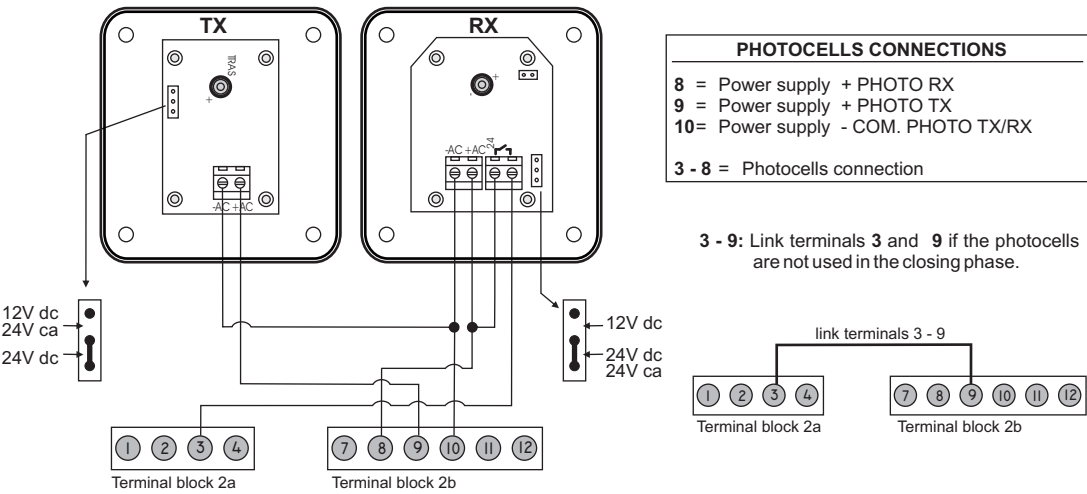
ONE MOTOR ONLY (RIGHT) CONNECTION



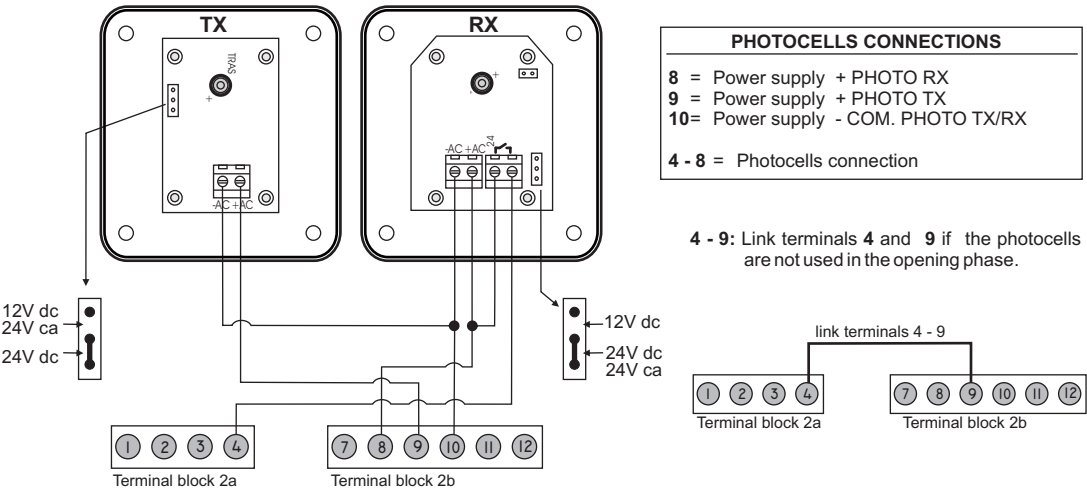
ONE MOTOR ONLY (LEFT) CONNECTION



6 CONNECTING PHOTOCELL IN CLOSING PHASE



CONNECTING PHOTOCELL IN OPENING PHASE



7 ELECTRO-LOCK INTERFACE BOARD(MEL)
IF YOU WANT TO CONNECT THE MEL INTO CN

- CONNECT THE ELECTRO LOCK
- CHANGE THE PARAMETERS *P0 - P1* AND *t C*

