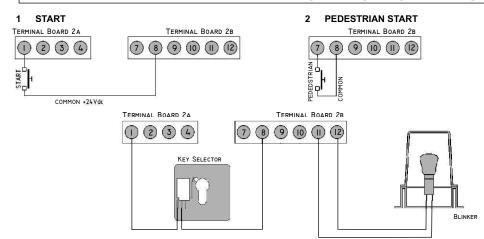
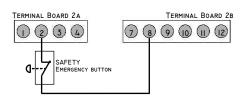
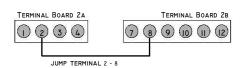
MEMORANDUM FOR WIRING AND PROGRAMMING THE CONTROL UNIT Q36A



3 EMERGENCY PUSH BUTTON STOP CONTACT



N.B.: Jump terminals 2 and 8 if, temporarily, the STOP contacts is not used



4 MOTORS CONNECTIONS

MOTOR 1 LEAF WITH ELECTRO-LOCK OR LEAF THAT OPENS FIRSTLY

13 OPEN + CONDENSER

14 COMMON (BLUE WIRE OF THE MOTOR)

15 CLOSE + CONDENSER

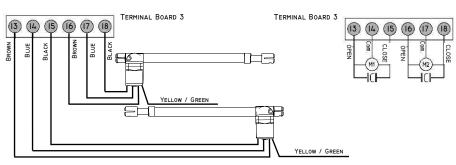
MOTOR 2

LEAF THAT OPENS SECONDLY

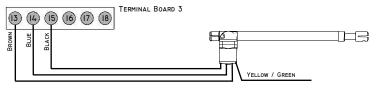
16 OPEN + CONDENSER

17 COMMON (BLUE WIRE OF THE MOTOR)

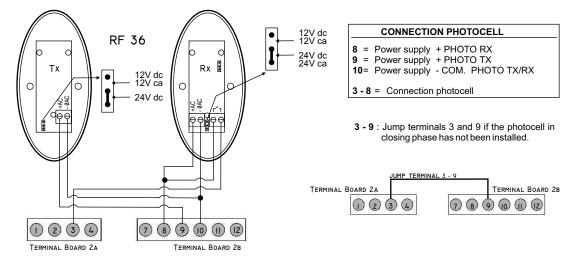
18 CLOSE + CONDENSER



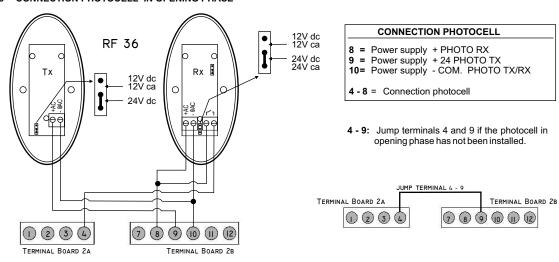
IF YOU CONNECT ONLY ONE MOTOR



5 CONNECTION PHOTOCELL IN CLOSING PHASE



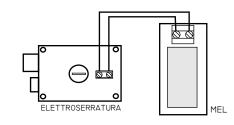
5 CONNECTION PHOTOCELL IN OPENING PHASE

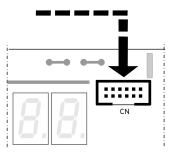


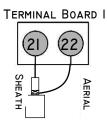
7 ELECTRO LOCK DEVICE (MEL)

IF YOU WANT TO INSERT THE DEVICE MEL IN THE CN

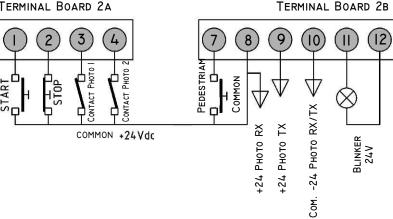
- CONNECT THE ELECTRO LOCK
- CHANGE THE PARAMETERS PD P1 AND &c



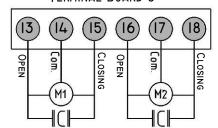




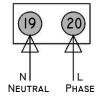
TERMINAL BOARD 2A



TERMINAL BOARD 3



TERMINAL BOARD 4



TERMINAL BOARDS CONNECTIONS

All the connections must be done without power supply.

EARTH TERMINAL BOARD CONNECTIONS

Connect the yellow/green motors cable to earth terminals A / B. Connect the yellow/green network cable to earth terminal C.

TERMINAL BOARD 1 CONNECTIONS

- Aerial or radio receiver signal 21
- Sheath or negative for radio receiver

TERMINAL BOARD 2 CONNECTIONS

1-8	Start co	ntrol normal	ly open	(NA) for	button,	key se	lector and	I radio connection.

- The Start control starts the programmed running cycle. 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, jump terminal 2 with terminal 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, jump terminal 3 with terminal 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.

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, jump terminal 4 with terminal 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 m A are still available for extra accessories.

9-10 Output for photocell transmitter power supply.

11-12 Blinker intermittent output, 24V dc 10W max.

TERMINAL BOARD 3 CONNECTIONS

Γ	13	Motor 1 M1- output (13 Brown; 14= Blue; 15= Black)
	14	Leaf that opens firstly and that delays in closing phase.
L	15	In case of a gate of one single leaf connect the motor to output M1, select parameter P5 on SI, confirm with 5 U and save
	16	with push button C. Capacitor between terminal 13 and 15
	17	Output motor 2 M2 (16=brown - 17=Blue - 18= Black)
	18	Leaf that opens secondly.

Capacitor between terminal 16 and 18

TERMINAL BOARD 4 CONNECTIONS

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

RADIO RECEIVER PROGRAMMING

DELETE ALL THE RECORDED TEST CODES, BEFORE TO PROGRAMME THE RADIO-RECEIVER

- SHOW CODES

Display the stored code scanning from 1 to 50

ERASURE OF EACH SINGLE RADIO CODE

During the scanning press the button D when the display shows the number of the code you want to erase.

NEW REMOTE CONTROL ACQUISITION

PROCESS 1 = STANDARD acquisition PROCESS 2 = SEQUENTIAL acquisition

PROCESS 1

- Press the button A several time until when the display shows the symbol
- Press the button **B** until when the display shows the symbol $\xi \in$
- Give an impulse with the transmitter and keep it pressed
- At the same time press the button **C** to confirm the program storage

PROCESS 2

Connect Jumper J1

- Give an impulse with the transmitter and keep it pressed
- At the same time press the button **A** for the code acquisition.
- Remove the jumper **J1** (without switching off the power supply).
- The double click of the relay confirms the code storage.

REMOTE CONTROL ACQUISITION WITH STOP FUNCTION. Press the button **A** until when the display shows the symbol r

Press the button **B** until when the display shows the symbol ℓ P

- Give an impulse with the transmitter and keep it pressed
- At the same time press the button **C** to confirm the program storage

REMOTE CONTRO ACQUISITION WITH PEDESTRIAN FUNCTION Press the button **A** until when the display shows the symbol r

Press the button **B** until when the display shows the symbol Pd

- Give an impulse with the transmitter and keep it pressed
- At the same time press the button **C** to confirm the program storage

DELETE AT THE SAME TIME ALL CODES

Press the button **A** until when the display shows the symbol $r = \frac{R}{R}$

- Press the button **B** until when the display shows the symbol Γ
- Keep the button D pressed until when the display shows the symbol r (Now all the codes have been erased)

CONTROL UNIT PARAMETERS PROGRAMMING

Process 1=STANDARD Process 2=SEQUENTIAL

Warning:

- 1 Check that the connection to the **motors** follows the diagram
- 2 Check that the connection of the security devices follows the diagram

Note: If you do not install the photocells in closing phase, please jump terminal 3

If you do not install the rubber edge in opening phase, please jump terminal 4 and 9.

3 Check that the connections of the Controls follow the diagram

Note: If the Stop function is not in use for the time being Jump terminal 2 and 8.

- 4 The gate has to reach the closing position
- 5 Switch on the control unit.

STANDARD PROGRAMMING (Process 1)

- Give a START impulse (terminal 1 and 8)
- You should wait that the gate has accomplished a whole phase : **Opening - Stop-closing** because the control unit is pre-programmed.
- Give a further START impulse to see which are the non suitable times and functions of the device and note them in the boxes "values and changes".
- Step in the programming phase using the buttons A and B to join the wished parameter.
- Use the buttons C and D to change or confirm every single parameter.

EXAMPLE 1: Addition the working time of the motor 1 within 2 sec.

EXAMPLE 2: Reduce the deceleration time of the motor 2 within 1 sec.

EXAMPLE 3: Delete the break time

EXAMPLE 1

While the control board is switched on check that display shows: PR Press the button A the display shows the symbols ΠI Press several times the button B when display shows the symbols 20 Wait a little when the display shows the symbols 23 the display shows the symbols Press 2 times the button C Press several time the button B when the display shows the symbols 511 Press the button C the display shows the symbols The working time of the motor 1 is boosted within 20-23 seconds.

EXAMPLES 2

While the control board is switched	on check that the display shows	
Press the button A	the display shows the symbols	PR
Press moreover the button B	when the display shows the symbols	r 2
Wait a minute	when the display shows the symbols	08
Press twice the button D	the display shows the symbols	07
Press several times the button B	when the display shows the symbols	SU
Press the button C	the display shows the symbols	
The deceleration time of the motor 2	has been reduced within 1 second	

EXAMPLE 3

When the control board is switch of	on check that the display shows:	
Press the button A	the display shows the symbol	PR
Press several times the button B	when the display show the symbol	Р 3
Wait 1-2 seconds	the display will show the symbol	51
Press once button D	the display will show the symbol	по
Press several times button B	the display will show the symbol	SU
Press button C	the display will show the symbol	

It has been removed the automatic closing and it has been inserted the step by step

SEQUENTIAL PROGRAMMING (Process 2)

- A) Insert Jumper J1
- B) Press button B to select
 - [] | = MOTOR 1
 - *∏ 2* = MOTOR 2

When the display shows the required position you should wait a moment without pressing any button.

C) When the display will show the symbol OO you can **START** the **Sequential** programming.

You can go on using the **START** button or the radio transmitter button if it has been already programmed.

- 1° Impulse: **OPEN** (the first leaf starts and then starts the second one)
- 2° Impulse: the deceleration begins
- 3° Impulse: STOP of the opening phase and start to calculate the Break Time
- 4° Impulse: STOP of the Break Time and the motor 2 start to CLOSE
- 5° Impulse: STOP of the phase displacement. The motor 1 start to CLOSE
- D) Wait for the complete end of the cycle until when the blinker is off
- Remove the jumper (without switching off the power supply) the double click of the relay shows that the stated values have been stored.
- Give a START impulse and control that times are responding to the needs.
- G) If the times of Working, Deceleration and Pause do not respond to your needs vou can:
 - 1 Repeat the sequence from step A) or
 - 2 Set up in the programming with the buttons and modify the time that you want to

= YES = AUTOMATIC CLOSING INSERTED

- A START Impulse during the opening phase stops the leaves (they stay unmoved until a new impulse)
- A START impulse during the closing phase changes the working. If you do not want that the Start impulse during the opening phase stops the gate you have to insert the condominial function (function P = - = yes)
- = NO = STEP BY STEP INSERTED
- An impulse opens An impulse blocks An impulse closes



= YES = CONDOMINIAL FUNCTION INSERTED

The control board does not accept any command during the opening

Q36 A CONTROL UNIT FOR SWING GATE 1 OR 2 LEAVES

CONTROL UNIT COMPONENTS

Α SELECTION BUTTON A В SELECTION BUTTON B С

BUTTON CONFIRMATION (YES) / INCREASE BUTTON NEGATION (NO) / DECREASE FUSE 24 VAC 800 MA

FΙ F2 POWER CURRENT FUSE 230 VAC 5A

DISPLAY 7 SEGMENTS DISPLAY

МΙ TERMINAL BOARD FOR RADIO OR ANTENNA M2A / M2B TERMINAL BOARD FOR CONTROLS AND SECURITY

М3 TERMINAL BOARD FOR MOTORS Μ4 TERMINAL BOARD FOR POWER SUPPLY

ABC EARTH TERMINAL BOARDS

SC RADIO BOARD

PROGRAMMING JUMPER CN EXPANSION SERIAL CONNECTOR

Z2 FILTER KI/K2 RELAY

D

PRIMARY VARISTOR ٧2 SECONDARY VARISTOR

BUTTON C= INCREASE

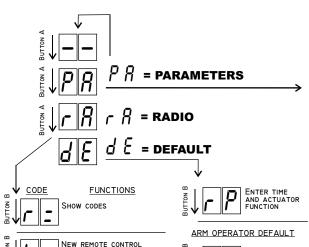
ENTER FUNCTION BUTTON D= DECREASE

DISCONNECT FUNCTION

BUTTON B ->

BUTTON C →

BUTTON D \rightarrow D



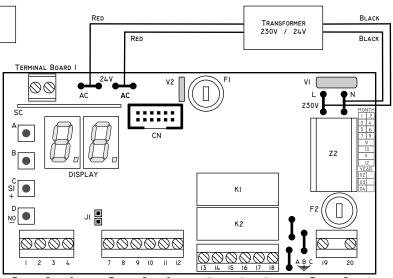
ENTER TIME ACQUISITION FOR ARTICULATED ARM OPERATOR REMOTE CONTROL ACQUISITION WITH STOP FUNCTION WHEEL DRIVE DEFAULT ENTER TIME FOR WHEEL DRIVE OPERATOR REMOTE CONTROL ACQUISITION

BUT

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ш S

WITH PEDESTRIAN FUNCTION DELETE AT THE SAME TIME ALL CODES



TERMINAL BOARD 2A TERMINAL BOARD 2B TERMINAL BOARD 3 TERMINAL BOARD 4



PROTECO di Proglio Giancarlo & C. S.n.c. Via Neive, 77 - 12050 CASTAGNITO (CN) ITALY Tel. (0039) 0173 210.111 - Fax (0039) 0173 210.199 www.proteco.net - E-mail: info@proteco.net

PARAMETERS

PARAMETERS VARIATIONS

Each time you press the button **A**, you enter in the menu; with the button **B** you can choose the suitable parameter.

In order to change the pre - set parameters, use buttons C and D in the following way: A) The button C confirms or puts the selected parameter; it increases at each

impulse the value of the selected parameter: B) The button D erases or puts out the selected parameter; it decreases at each impulse the value of the selected parameter.

When you change one or more parameters with the buttons C and D, you have to store the variations in the following way: enter in the function "store parameters" S_{II} (the last of the menu P_{II}) and confirm pressing the button C.

LEKMINAL BUARL	J ZA FERMINAL BUARD Z			NAL BOAR	0 3	I ERMINAL DO	JARD 4				
CODE	<u>FUNCTIONS</u>	VALUES	VALUES d 5	VALUES			<u>FUNCTIONS</u>	. r P	d 5	d r	
	MOTOR I WORKING TIME 0 - 99	21	13	8	BUTTON B	5 11	YES= TO SAVE VARIATIONSNO NO= TO CANCEL ANY OPERATION NOTHING= KEEPS IN	<u>N0</u>	<u>N0</u>	NO NO	TI of
	MOTOR 2 WORKING TIME 0 - 99	21		8			TEMPORARY STORAGE				E
	Motor I Power 6 - 19	10	10	<u>12</u>	I BUTTON B	P 8	SI = PHOTOCELLS TEST	YES —	YES —	YES —	
	Motor 2 Power 6 - 19	10	10	<u>12</u>	I B BUTTON E	P 7	SI = MOTORS TEST	YES —	NO	YES —	
	MOTOR I DECELERATION TIME 0 - 99	8	6	3	BUTTON	PB	SI = DECELERATION	YES —	YES —	YES	
	Motor 2 deceliration TIME 0 - 99	8		3	BUTTON B	P 5	SI = MOTOR I	N0 —	NO —	N0 —	
<u> </u>	MOTORS TIME OF PHASE DISPLACEMENT 0 - 99	3			T I	PY	SI = PRE BLINKING	<u>N0</u>	<u>N0</u>	NO	
	AUTOMATIC CLOSING TIME 0 - 99	3	_3_	_3_	BUTTON	PB	SI = AUTOMATIC CLOSING STEP BY STEP	YES	YES	YES	
	PEDESTRIAN OPENING TIME 0 - 99	7	7	_3_	BUTTON B	P 2	SI = CONDOMINIAL	N0 —	NO —	N0 —	
<u>F</u> -	Motor power during DECELERATION 6 - 19	10	10		B BUTTON B	PI	SI = ELETRO LOCK	N0 —	N0 —	YES	
	CLOSING PULSE TIME 0,1/2, 1, 1 1/2,2,5 SECONDS	0	0	3	BUTTON B	PO	SI = WATER HAMMER	NO	NO	YES —	

SELF DIAGNOSIS ANOMALIES SIGNALLING

The display shows possible damages of each component of the control board. lay

photoce	onnect or obscure the displated by the code [[
E R	PHOTOCELL IN OPENING PHAS
E	PHOTOCELL IN CLOSING PHAS
5 6	STOP
PE	PEDESTRIAN START
	START
 	RADIO CODE IN CONTINUOUS TRANSMISSION
	MOTOR I TEST
<u> </u>	MOTOR 2 TEST
	BOTH MOTORS TEST