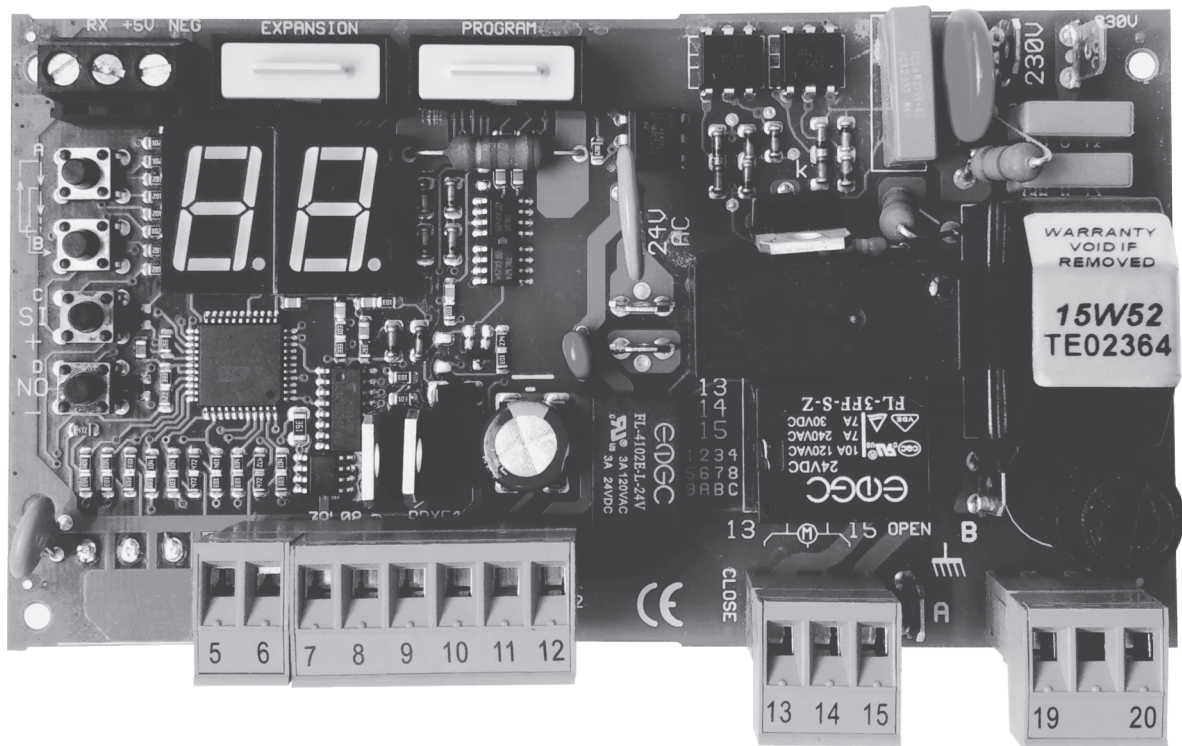


T016P

ROLL UP DOOR CONTROL BOARD

230 VAC



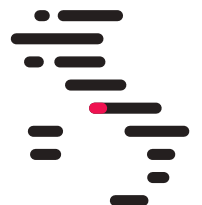
T.A. TECNO AUTOMAZIONE S.R.L.

Via Vicinale snc

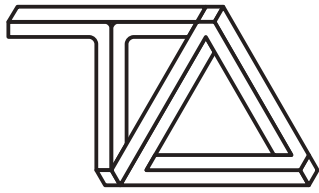
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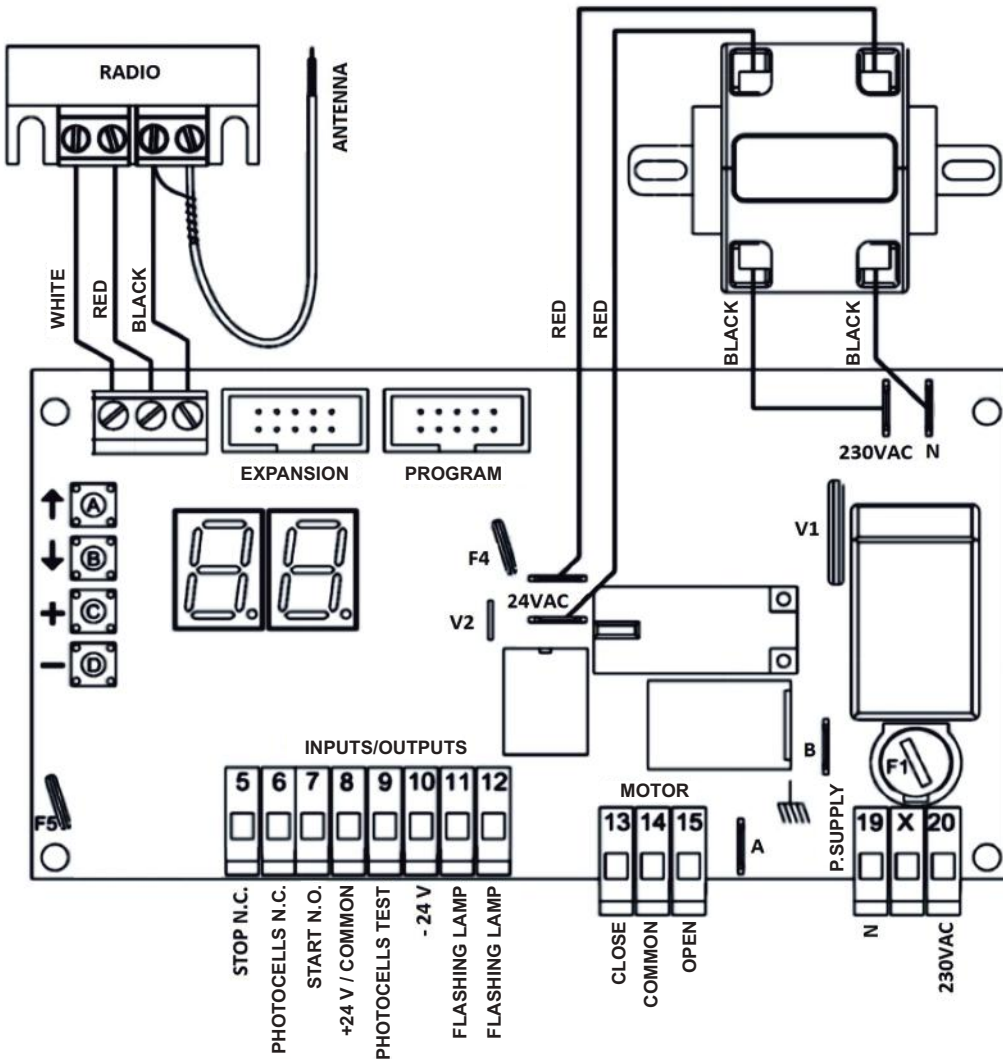


MADE IN ITALY



ROLL UP DOOR CONTROL UNIT T016P

Installation manual

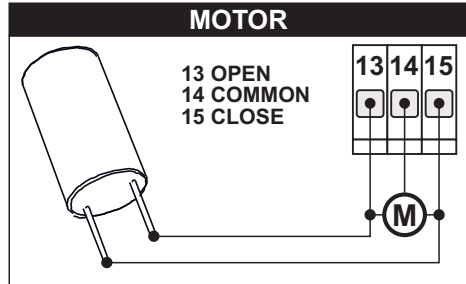


COMPONENTS	
<input type="checkbox"/> A	Button A
<input type="checkbox"/> B	Button B
<input type="checkbox"/> C	Button C
<input type="checkbox"/> D	Button D
F1	250 VAC power fuse 2A
F4	Resettable fuse 24V 1.6A
F5	Resettable fuse 24V 0.6A
A B	Ground terminals
V1	Primary varistor
V2	Secondary varistor
5 / 20	Terminal block

RESETTABLE FUSE ATTENTION

⚠ AFTER A SHORT-CIRCUIT:

- TURN OFF THE CONTROL BOARD.
- REMOVE THE SHORTCIRCUIT.
- WAIT FOR 60 SECONDS OR MORE.
- TURN ON THE CONTROL BOARD.



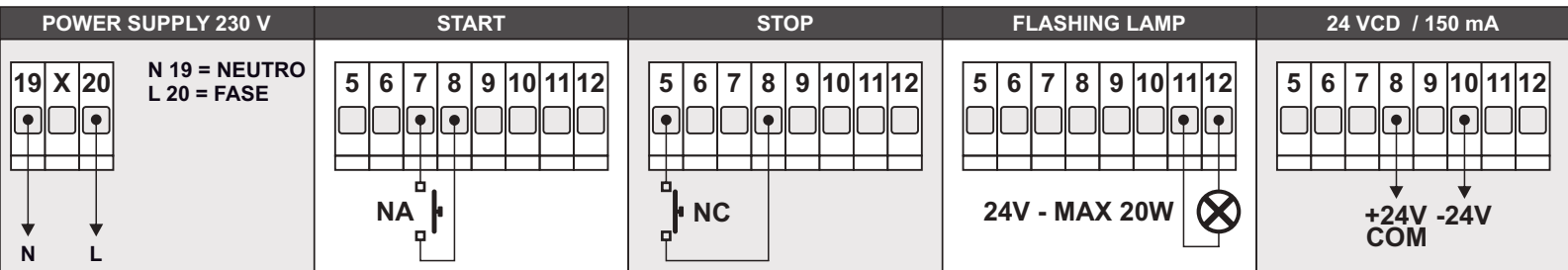
CONNECTION

		PHOTOCELLS			
	24 VDC	TYPE	PIN		FUNCTION
TX	+	NC	+	-	<ul style="list-style-type: none"> • enabling • disabling
	-		X	X	
RX	+	NC	+	-	
	-		6	8	

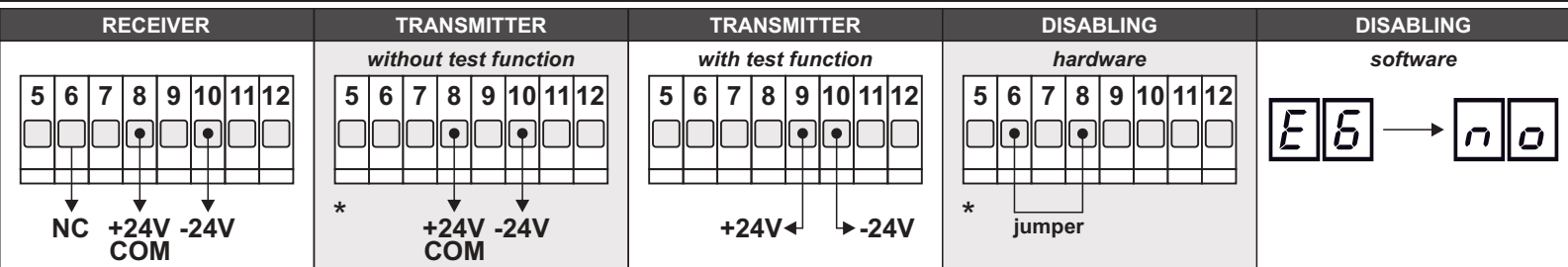
		OTHER INPUTS			
	TYPE	PIN		FUNCTION	
START	NA	7	8	<ul style="list-style-type: none"> • enabling • disabling 	
STOP	NC	5	8	<ul style="list-style-type: none"> • enabling • disabling 	

MOTOR			FLASHING LAMP	
OPEN	COMMON	CLOSE	24V - 20W	
13	14	15	11	12

230 VAC		AUXILIARY POWER SUPPLY	
19	20	24 VDC 150 mA	24 VDC 150 mA
+	-	8	10



PHOTOCELLS CONNECTION



The parameter enables () or disables () photocells testing. The setting () requires set to .

MOTOR SETTING			
Display	Default	Min	Max
A1	14 sec	00 sec	99 sec
A5	10	1	10

MOTOR SETTING			
Display	Default	Min	Max
F0	10 sec	0 sec	99 sec
F3	1.0 sec	0 sec	5.0 sec
F5	NO	NO	SI
F6			
F7	NO	NO	SI

TEST			
Display	Default	C	D
t1	SI	SI	NO

ACQUISITION OF THE OPENING AND CLOSING TIMES	
Display	Description
P1	When a star command is received the control board starts an acquisition procedure of the opening and closing times of the roll up door.

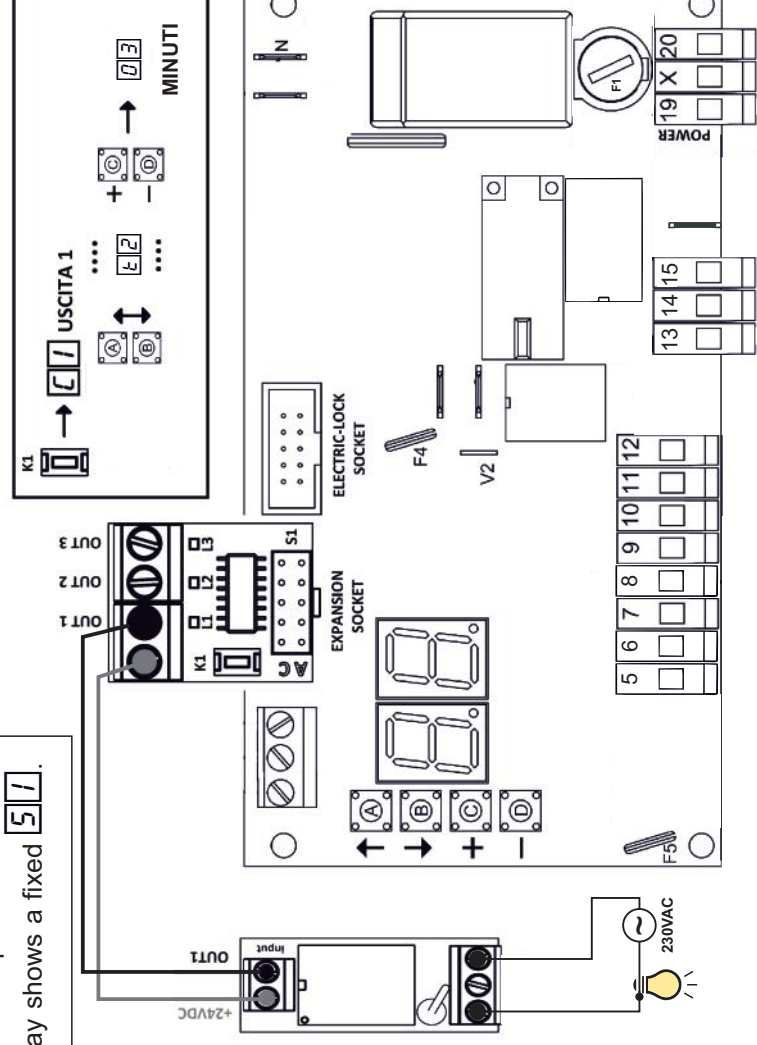
BUTTONS			
A	Scroll up		
B	Scroll down		
C	Increases or sets to	51	51 = enabled
D	Decreases or sets to	n0	n0 = disabled

TRANSMITTERS SETTING		
Display	Display	Description
r0	1...2...	When the display shows the identification code of the remote to be canceled keep the button C pressed until the display turns off 00 .
r1	3-	Save
r2	3-	Save
r4	3-	Save
r5	n0	Cancel

EXTERNAL INPUTS SETTINGS			
Display	Default	C	D
E5	SI	SI	NO
E6	SI	SI	NO
E7	SI	SI	NO

RESTORE FACTORY SETTINGS	
Display	Description
d0	to restore factory settings keep button C pressed until the display shows 00 .

DISPLAY NOTIFICATION	
5t	Stop
tC	Photocells
60	Start
-	Reception of a remote radio code
1t	Photocells test error
FF	Radio memory full
E0	DOMUS command N.O.
Et	DOMUS command N.C.



MOTOR SETTINGS

A1	Working time	It is the motor working time during opening and closing. It is settable from 00 to 99 .	A5	Motor force	The motor force is settable from 01 to 10 .
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PHOTOCELLS TEST

		E1 = 51 → ENABLED	E1 = n0 → DISABLED
E1	Photocells test	Before each movement, the control board checks the presence of the photocells. If no errors are detected the motor can be started. Otherwise the motor cannot be started and the display shows 1E .	

FUNCTIONS

F0	Pause time	After opening the control board executes a F0 seconds pause, then starts closing. By setting F0 to 5E , the control board sets the roll up door into Stop opening state after opening. To set 5E press repeatedly the C button until the display shows 5E .		
F3	Pre-blinking time	The flashing lamp indicates the start-up phase by blinking intermittently for F3 seconds before the motor start working.		
F5	Step by step Standard Community mode	F5 = n0 e F5 = n0	F5 = 51	F5 = n0 e F5 = 51
F6		STANDARD	COMMUNITY MODE	STEP-BY-STEP MODE
		At opening: the start commands stop the roll up door movement. At closing: the start commands invert the roll up door movement.	At opening: the start commands do not have any effect. At closing: the start commands invert the roll up door movement.	At opening: the start commands stop the roll up door movement. At closing: the start commands stop the roll up door movement.
F7	Fast closure function	F7 = 51	F7 = n0	
		All start commands issue fast closure start commands	Only remote controllers saved as r4 issue a fast closure start command.	
		During the first opening, the rolling shutter starts to close 3 seconds after the photocells have been activated. This function works only when the photocells have been enabled setting E5 = E1C . For safety reasons, it's advisable to enable this function when installing 2 pairs of photocells.		

TRANSMITTERS SETTINGS

r0	Erasing a single remote code	Press repeatedly or keep pressed the buttons A or B until the display shows r0 . After a second, the display shows the saved codes in succession 1...2... . Each code is represented by an identification number. To cancel the showed code keep button C pressed until the display turns off. The code has been canceled.
r1	Start	Press repeatedly or keep pressed the buttons A or B until the display shows r1 . After a second, the display shows E1 . Keep pressed the remote button to be saved, the display shows E1 , press the C button on the control board to save. Once saved, when the remote button is pressed and one of the functions r1 , r2 is selected, the display shows the identification number of the code.
r2	Stop	Press repeatedly or keep pressed the buttons A or B until the display shows r2 . After a second, the display shows E1 . Keep pressed the remote button to be saved, the display shows E1 , press the C button on the control board to save. Once saved, when the remote button is pressed and one of the functions r1 , r2 is selected, the display shows the identification number of the code.
r4	Fast closure function: time of inversion: 3 seconds	<p>At opening: 3 seconds after the photocells have been activated, the roll up door starts closing.</p> <p>At pause: after the photocells have been activated, the roll up door starts closing.</p> <p>Required settings: the photocell must be installed E5 = E1C.</p> <p>If these conditions are not satisfied the remote button works as a start command. This functionality is active only once per working cycle while the roll up door is in the opening phase or paused. In all the other conditions the remote button works as a start command.</p>
r5	Erasing all codes	Press repeatedly or keep pressed the buttons A or B until the display shows r5 . After a second, the display shows n0 . To erase all saved codes keep the C button pressed until the display shows a fixed 51 .

EXTERNAL INPUTS SETTINGS

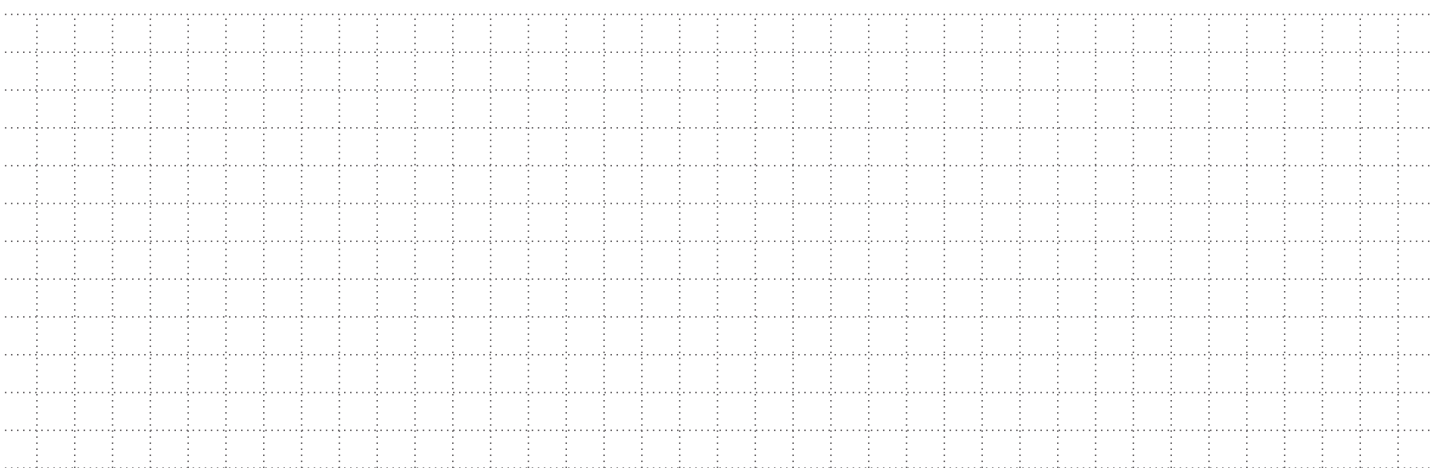
E5	5 <input type="checkbox"/> <input type="checkbox"/>	Stop	E5 = 54 → ENABLED	E5 = n0 → DISABLED	<p>It is the Stop terminal block parameter and it is a normally closed contact. During installation it is advisable to disable E5. If a Stop switch is connected the control board will automatically recognize it and will enable E5. When the stop input is activated the display shows 54.</p>
E6	6 <input type="checkbox"/> <input type="checkbox"/>	Photocell	E6 = 44 → ENABLED	E6 = n0 → DISABLED	<p>It is the photocells terminal block parameter and it is a normally closed contact. During installation it is advisable to disable E6. If a photocell is connected the control board will automatically recognize it and will enable E6. When the Photocell is activated the display shows 44.</p>
E7	7 <input type="checkbox"/> <input type="checkbox"/>	Start	E7 = 00 → ENABLED	E7 = n0 → DISABLED	<p>It is the Start terminal block parameter and it is a normally opened contact. It is advisable to set E7 = n0 if no external start device is installed. When the start input is activated the display shows 00.</p>

ACQUISITION OF THE OPENING AND CLOSING TIMES

P1	Acquisition of the opening and closing times	<p>It is a semi-automatic procedure that allows acquire the working times of the roll up door.</p> <p>The relevant parameters are: R1 and F0.</p> <p>⚠ Before starting this procedure make sure that:</p> <ul style="list-style-type: none"> • all safety devices are connected, • the control board is in Stand-by state, • the working direction of the motor is correct. <p>To start this procedure keep the buttons A or B pressed until the control board shows P1. After a few seconds the display shows - -. When a start command is received the procedure will start. The procedure is subdivided in 2 phases: R1 and F0. During each phase the associated parameter is programmed.</p>
P1 → - -		<p>The control board is ready to start the sequential programming procedure.</p> <p>To continue to the Phase 1 R1 press a start command.</p>
R1	Phase 1	<p>The working time R1 of the roll up door is being acquired. The roll up door opens.</p> <p>To continue to phase 2 F0 press a start command.</p>
F0	Phase 2	<p>The pause time F0 is being acquired. The roll up door is stopped. The flashing lamp lights steady. After 1,5 seconds the display shows a count that will determine the pause time. To complete this procedure enter a start command and wait until the roll up door closes completely.</p>

RESTORE FACTORY SETTINGS

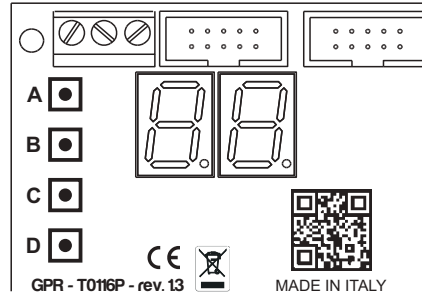
d0	Default	<p>To restore factory settings keep the button A or B pressed until the display shows d0. After a few seconds the display shows n0. To set the factory default press button C until the display shows - -. The factory default setting doesn't effect the radio programming.</p>
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The **GPR** has been created to facilitate the programming phases of the control unit for the user. It must be taken into consideration only after referring to the **installation and programming** manual of the control unit. All the procedures described in this guide are intended valid only after the installation and the wiring were made under optimum conditions and carried out by qualified personnel.



1 → START 2 → STOP



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BUTTON A	BUTTON B	BUTTON C	BUTTON D	
to scroll the menu FORWARD	to scroll the menu BACKWARD	Increase or set SI SI = enabled SAVE	decrease or set NO not used in the quick programming	stand by

DISPLAY REPORTS VISUALIZED IN THE QUICK PROGRAMMING PROCEDURE				
control board ready to receive a radio code	start /radio parameter	stop/radio parameter		stop/radio parameter
remote in transmission	control board ready to acquire a radio code	start/movement signaling		control board ready for programming
				acquisition of opening and closing times

TRANSMITTERS PROGRAMMING memorizing of the **START** command **00**

with the buttons **A** **B** scroll the menu until visualizing **r 1** → after 1 second the display shows **- -**

keep pressing the button of the transmitter **1** the display shows **- -** → with this state visualized press button **C** to save

the code was memorized and the display shows its position in the memory. when the saved button **1** is pressed, the display will indicate its position again example **= 1**

TRANSMITTERS PROGRAMMING memorizing of the **STOP** command **5t**

with the buttons **A** **B** scroll the menu until visualizing **r 2** → after 1 second the display shows **- -**

keep pressing the button of the transmitter **2** the display shows **- -** → with this state visualized press button **C** to save

the code was memorized and the display shows its position in the memory. when the saved button **2** is pressed, the display will indicate its position again example **= 2**

PROGRAMMING OF THE WORKING TIMES **OPENING / CLOSING** **P 1**

acquires automatically the working times and the slowdown of the roll up door

with the buttons **A** **B** scroll the menu until visualizing **P 1** → after 1 second the display shows **- -**

press the button **1** to start the sequential programming procedure → each successive pressing of button **1** ends a phase and starts the following step

acquisition of working times **1** → **A 1** / acquisition of the pause time the display shows a seconds counter **1** → **F 0**

! WARNING: do not interrupt the movement of the roll up door during all the programming phases

To erase radio parameters or visualize further functions and specifications in details refer to the **installation manual**.

For private households: Information on Disposal for Users of WEEE This symbol on the product(s) and / or accompanying documents means that used electrical and electronic equipment (WEEE) should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge. Alternatively, in some countries, you may be able to return your products to your local retailer upon purchase of an equivalent new product. Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste, in accordance with you national legislation. For professional users in the European Union If you wish to discard electrical and electronic equipment (EEE), please contact your dealer or supplier for further information. For disposal in countries outside of the European Union This symbol is only valid in the European Union (EU). If you wish to discard this product please contact your local authorities ordealer and ask for the correct method of disposal.



T016P

ROLL UP DOOR CONTROL BOARD

230 VAC

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