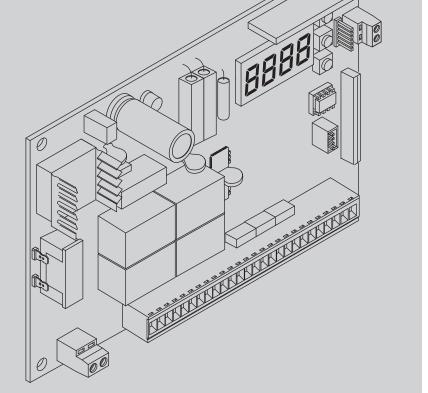


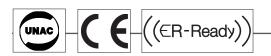
QUADRO COMANDO CONTROL PANEL CENTRALE DE COMMANDE SELBSTÜBERWACHENDE STEUERUNG CUADRO DE MANDOS BEDIENINGSPANEEL

# THALIA

ISTRUZIONI DI INSTALLAZIONE
INSTALLATION MANUAL
INSTRUCTIONS D'INSTALLATION
MONTAGEANLEITUNG
INSTRUCCIONES DE INSTALACION
INSTALATIEVOORSCHRIFTEN

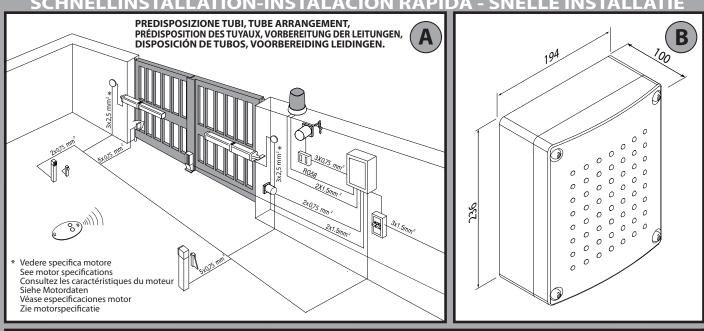


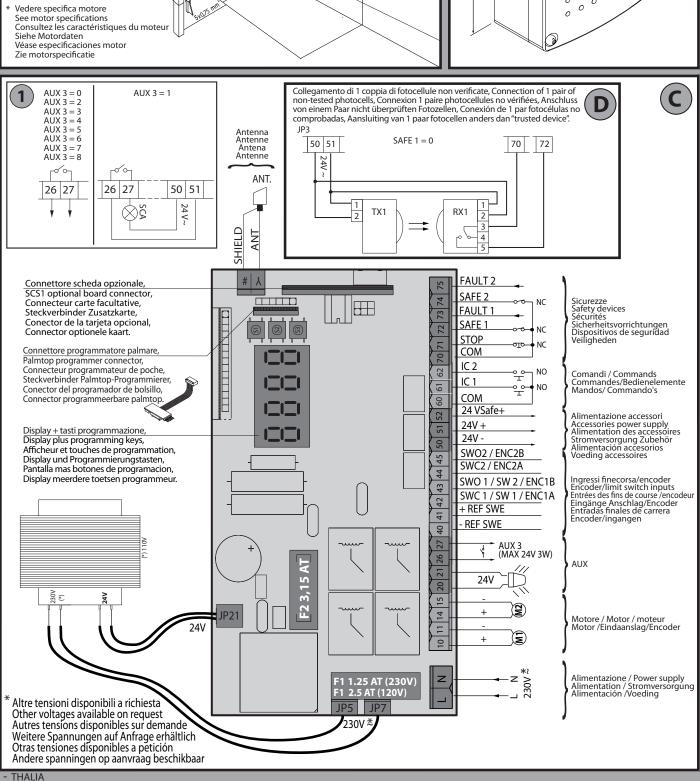




AZIENDA CON SISTEMA DI GESTIONE INTEGRATO CERTIFICATO DA DNV = UNI EN ISO 9001:2008 = UNI EN ISO 14001:2004

# INSTALLAZIONE VELOCE-QUICK INSTALLATION-INSTALLATION RAPIDE SCHNELLINSTALLATION-INSTALACIÓN RÁPIDA - SNELLE INSTALLATIE





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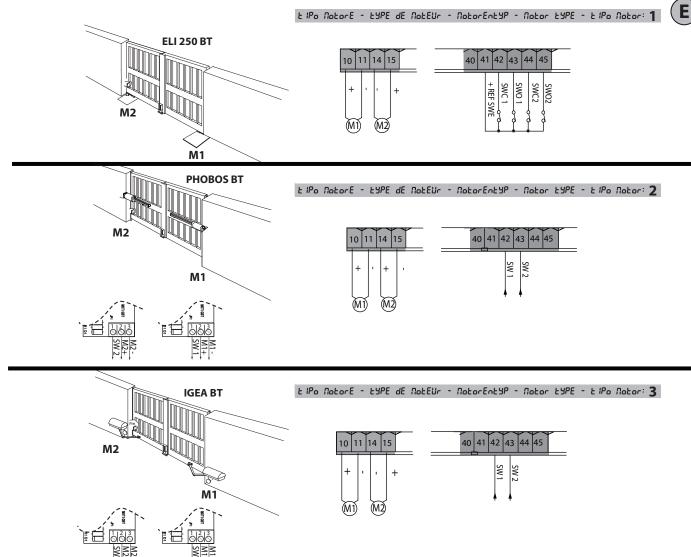




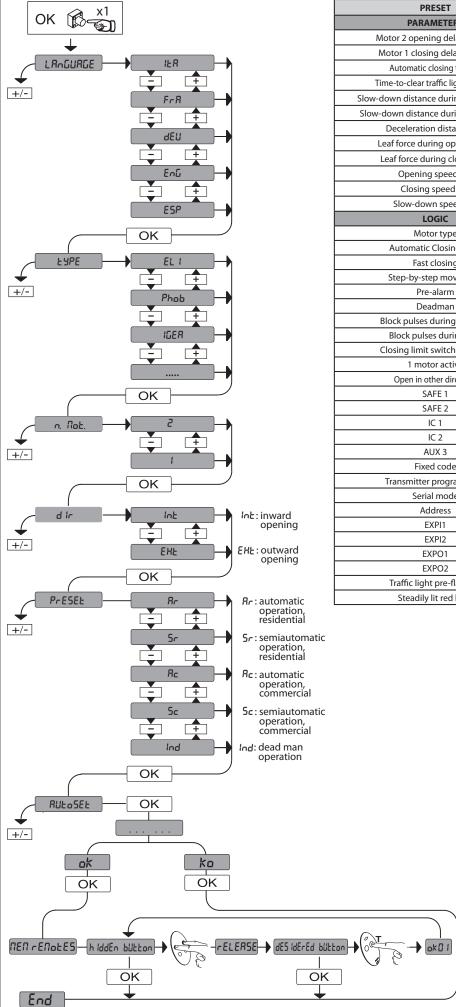






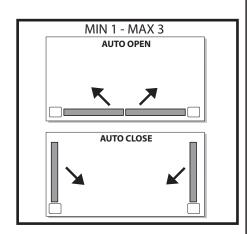


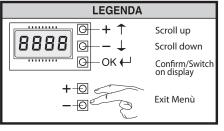
# SIMPLIFIED MENU

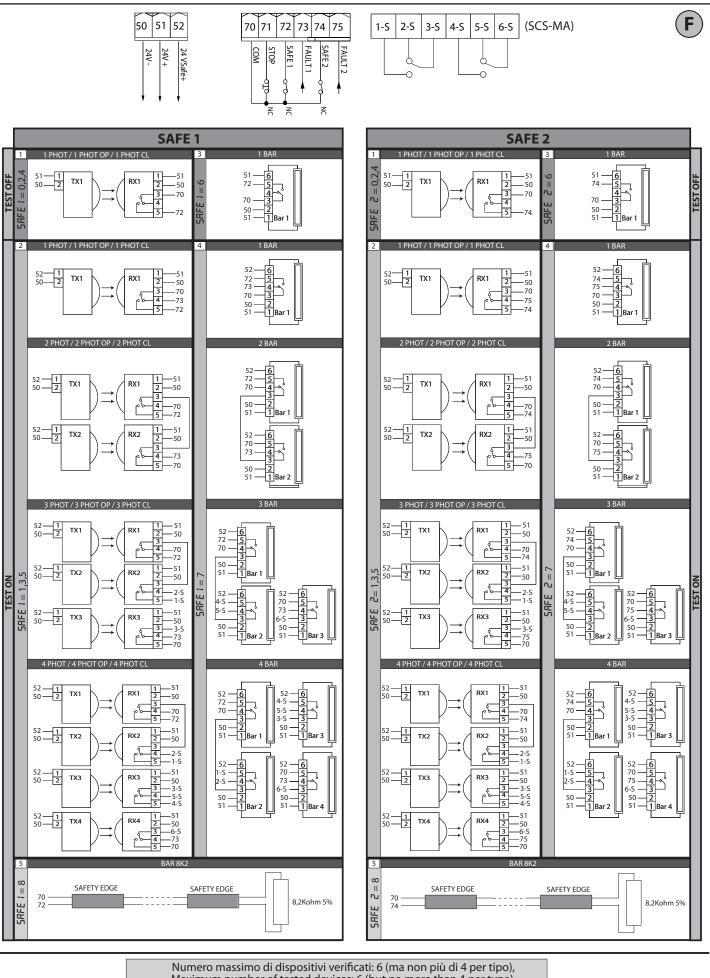


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PRESET	DEFAULT	Ar.	Sr	Rc	Sc	ınd
PARAMETERS					,	
Motor 2 opening delay time [s]	1	0	0	1	1	1
Motor 1 closing delay time [s]	1	0	0	1	1	1
Automatic closing time [s]	10	10	10	10	10	10
Time-to-clear traffic light zone [s]	40	40	40	40	40	40
Slow-down distance during opening [%]	10	10	10	10	10	10
Slow-down distance during closing [%]	10	10	10	10	10	10
Deceleration distance [%]	15	15	15	15	15	15
Leaf force during opening [%]	50	50	50	50	50	50
Leaf force during closing [%]	50	50	50	50	50	50
Opening speed [%]	99	99	99	99	99	99
Closing speed [%]	99	99	99	99	99	99
Slow-down speed [%]	25	25	25	25	25	25
LOGIC						
Motor type	0	/	/	/	/	/
Automatic Closing Time	0	1	0	1	1	0
Fast closing	0	0	0	0	0	0
Step-by-step movement	0	1	0	1	0	0
Pre-alarm	0	0	0	1	1	0
Deadman	0	0	0	0	0	1
Block pulses during opening	0	0	0	1	1	0
Block pulses during TCA	0	0	0	0	0	0
Closing limit switch pressure	0	0	0	0	0	0
1 motor active	0	/	/	/	/	/
Open in other direction	0	/	/	/	/	/
SAFE 1	0	/	/	/	/	/
SAFE 2	6	/	/	/	/	/
IC 1	0	/	/	/	/	/
IC 2	4	/	/	/	/	/
AUX 3	0	/	/	/	/	/
Fixed code	0	0	0	0	0	0
Transmitter programming	1	1	1	1	1	0
Serial mode	0	0	0	0	0	0
Address	0	0	0	0	0	0
EXPI1	1	/	/	/	/	/
EXPI2	0	/	/	/	/	/
EXPO1	9	/	/	/	/	/
EXPO2	9	/	/	/	/	/
Traffic light pre-flashing	0	0	0	0	0	0
Steadily lit red light	0	0	0	0	0	0

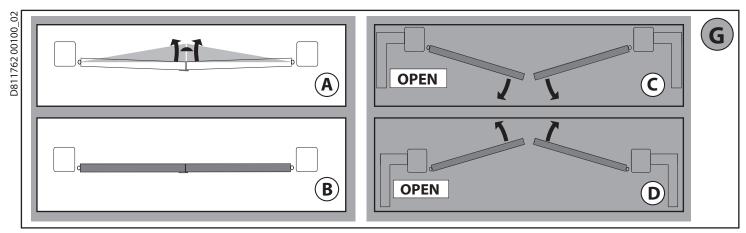


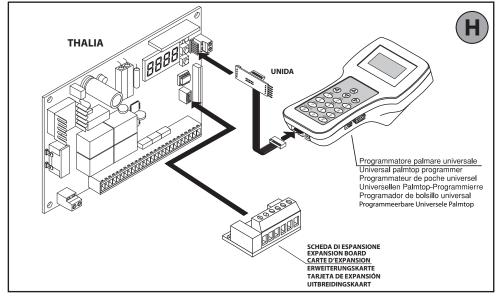


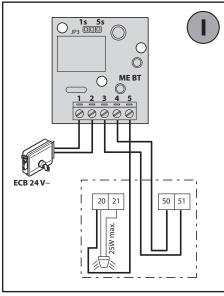


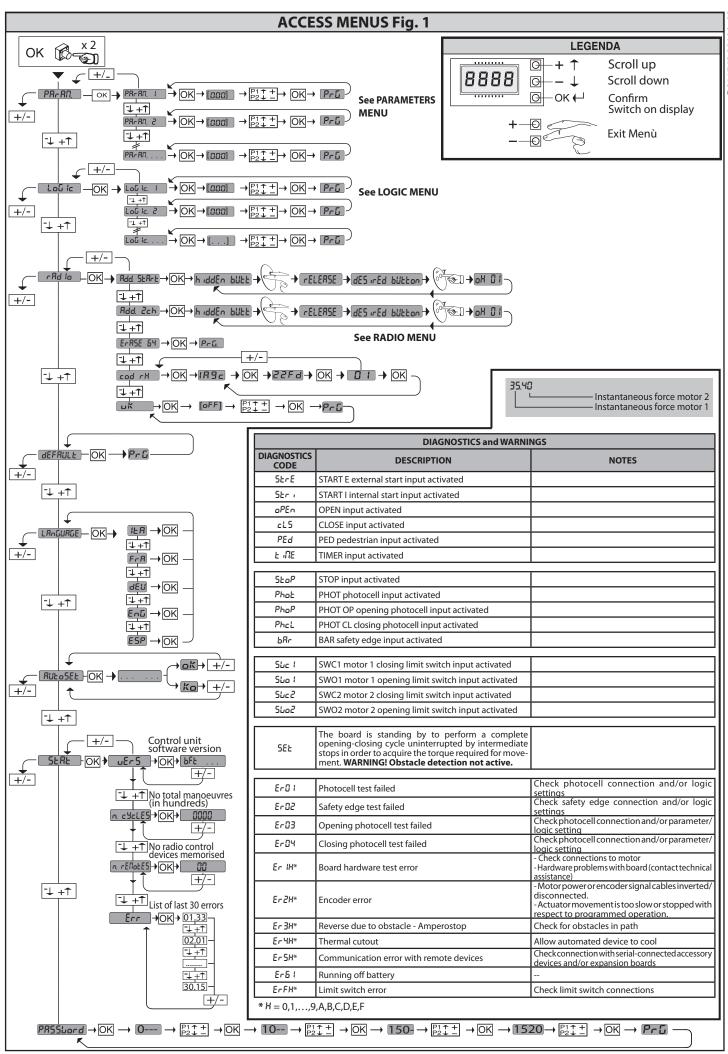
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Numero massimo di dispositivi verificati: 6 (ma non più di 4 per tipo), Maximum number of tested devices: 6 (but no more than 4 per type), Nombre maximum dispositif vérifiés: 6 (mais pas plus de 4 par type), Max. Anzahl der überprüften Geräte: 6 (jedoch nicht mehr als 4 je Typ), Número máximo dispositivos comprobados: 6 (pero no más de 4 por tipo), Maximumaantal "trusted devices": 6 (maar niet meer dan 4 per type).









8 762 reference.

WARNING! Important safety instructions. Carefully read and comply with all the warnings and instructions that come with the product as incorrect installation can cause injury to people and animals and damage to property. The warnings and instructions give important information regarding safety, installation, use and maintenance. Keep hold of instructions so that you can attach them to the technical file and keep them handy for future

### **GENERAL SAFETY**

This product has been designed and built solely for the purpose indicated herein Uses other than those indicated herein might cause damage to the product and create a hazard.

The units making up the machine and its installation must meet the requirements of the following European Directives, where applicable: 2004/108/EC, 2006/95/ EC, 2006/42/EC, 89/106/EC, 99/05/EC and later amendments. For all countries outside the EEC, it is advisable to comply with the standards mentioned, in addition to any national standards in force, to achieve a good level of safety.

-The Manufacturer of this product (hereinafter referred to as the "Firm") disclaims all responsibility resulting from improper use or any use other than that for which the product has been designed, as indicated herein, as well as for failure to apply Good Practice in the construction of entry systems (doors, gates, etc.) and for deformation that could occur during use.

Installation must be carried out by qualified personnel (professional installer,

-Before commencing installation, check the product for damage.

-Before installing the product, make all structural changes required to produce safety gaps and to provide protection from or isolate all crushing, shearing and dragging hazard areas and danger zones in general. Check that the existing

structure meets the necessary strength and stability requirements.

-The Firm is not responsible for failure to apply Good Practice in the construction and maintenance of the doors, gates, etc. to be motorized, or for deformation

that might occur during use.

-Make sure the stated temperature range is compatible with the site in which the

automated system is due to be installed. -Do not install this product in an explosive atmosphere: the presence of flammable fumes or gas constitutes a serious safety hazard,

-Disconnect the electricity supply before performing any work on the system.

Also disconnect buffer batteries, if any are connected.

-Before connecting the power supply, make sure the product's ratings match the mains ratings and that a suitable residual current circuit breaker and overcurrent protection device have been installed upline from the electrical system. Have the automated system's mains power supply fitted with a switch or omnipolar thermal-magnetic circuit breaker with a contact separation of at least 3.0mm and any other equipment required by code.

-Make sure that upline from the mains power supply there is a residual current

circuit breaker that trips at no more than 0.03A as well as any other equipment

required by code.

- Make sure the earth system has been installed correctly: earth all the metal parts belonging to the entry system (doors, gates, etc.) and all parts of the system featuring an earth terminal.
- -Installation must be carried out using safety devices and controls that meet standards EN 12978 and EN 12453.
  -Impact forces can be reduced by using deformable edges.
  -In the event impact forces exceed the values laid down by the relevant standards,

apply electro-sensitive or pressure-sensitive devices.

- -Apply all safety devices (photocells, safety edges, etc.) required to keep the area free of impact, crushing, dragging and shearing hazards. Bear in mind the standards and directives in force, Good Practice criteria, intended use, the installation environment, the operating logic of the system and forces generated by the automated system.
- -Apply all signs required by current code to identify hazardous areas (residual risks). All installations must be visibly identified in compliance with the provisions of standard EN 13241-1.
- -This product cannot be installed on leaves incorporating doors (unless the motor can be activated only when the door is closed).
- -If the automated system is installed at a height of less than 2.5 m or is accessible,
- the electrical and mechanical parts must be suitably protected.

  -Install any fixed controls in a position where they will not cause a hazard, away from moving parts. More specifically, hold-to-run controls must be positioned within direct sight of the part being controlled and, unless they are key operated, must be installed at a height of at least 1.5 m and in a place where they cannot be reached by the public.
- -Apply at least one warning light (flashing light) in a visible position, and also attach a Warning sign to the structure.

-Attach a label near the operating device, in a permanent fashion, with information on how to operate the automated system's manual release. -Make sure that, during operation, mechanical risks are avoided or relevant protec-

tive measures taken and, more specifically, that nothing can be banged, crushed,

caught or cut between the part being operated and surrounding parts.

Once installation is complete, make sure the motor automation settings are correct and that the safety and release systems are working properly.

- -Only use original spare parts for any maintenance or repair work. The Firm disclaims all responsibility for the correct operation and safety of the automated system if parts from other manufacturers are used.
- -Do not make any modifications to the automated system's components unless explicitly authorized by the Firm.
- -Instruct the system's user on what residual risks may be encountered, on the control systems that have been applied and on how to open the system manually in an emergency. give the user guide to the end user.

  -Dispose of packaging materials (plastic, cardboard, polystyrene, etc.) in accordance with the provisions of the laws in force. Keep nylon bags and polystyrene

out of reach of children.

**WARNING!** For connection to the mains power supply, use a multicore cable with a cross-sectional area of at least 4x1.5mm<sup>2</sup> of the kind provided for by the regulations mentioned above (by way of example, type H05 VV-F cable can be used with a cross-sectional area of 4x1.5mm<sup>2</sup>). To connect auxiliary equipment, use wires with a cross-sectional area of at least 0.5 mm<sup>2</sup>.

Only use pushbuttons with a capacity of 10A-250V or more.

Wires must be secured with additional fastening near the terminals (for example, using cable clamps) in order to keep live parts well separated from safety extra low voltage parts.

During installation, the power cable must be stripped to allow the earth wire to be connected to the relevant terminal, while leaving the live wires as short as possible. The earth wire must be the last to be pulled taut in the event the cable's fastening device comes loose.

**WARNING!** safety extra low voltage wires must be kept physically separate from

low voltage wires. Only qualified personnel (professional installer) should be allowed to access live parts

### CHECKING THE AUTOMATED SYSTEM AND MAINTENANCE

Before the automated system is finally put into operation, and during maintenance

work, perform the following checks meticulously:
-Make sure all components are fastened securely.

Check starting and stopping operations in the case of manual control.

-Check the logic for normal or personalized operation.

-For sliding gates only: check that the rack and pinion mesh correctly with 2 mm of play; keep the track the gate slides on clean and free of debris at all times. -Check that all safety devices (photocells, safety edges, etc.) are working properly

and that the anti-crush safety device is set correctly, making sure that the force of impact measured at the points provided for by standard EN 12445 is lower than the value laid down by standard EN 12453.

Make sure that the emergency operation works, where this feature is provi-

Check opening and closing operations with the control devices applied.

-Check that electrical connections and cabling are intact, making extra sure that insulating sheaths and cable glands are undamaged.

While performing maintenance, clean the photocells' optics.

When the automated system is out of service for any length of time, activate the emergency release (see "EMERGENCY OPERATION" section) so that the operated part is made idle, thus allowing the gate to be opened and closed manually.

Materials must be disposed of in accordance with the regulations in force. There are no particular hazards or risks involved in scrapping the automated system. For the purpose of recycling, it is best to separate dismantled parts into like materials (electrical parts - copper - aluminium - plastic - etc.).

# DISMANTLING

 $If the automated \, system \, is \, being \, dismantled \, in \, order \, to \, be \, reassembled \, at \, another \, another \, it is a constant. \\$ site, you are required to:

Cut off the power and disconnect the whole electrical system.

-Remove the actuator from the base it is mounted on.

Remove all the installation's components.

-See to the replacement of any components that cannot be removed or happen to be damaged.

Anything that is not explicitly provided for in the installation manual is not allowed. The operator's proper operation can only be guaranteed if the information given is complied with. The Firm shall not be answerable for damage caused by failure to comply with the instructions featured herein.

While we will not alter the product's essential features, the Firm reserves the right, at any time, to make those changes deemed opportune to improve the product from a technical, design or commercial point of view, and will not be required to update this publication accordingly.

### 2) GENERAL INFORMATION

The **THALIA** control panel comes with standard factory settings. Any change must be made using the programmer with built-in display or universal handheld programmer. Fully supports EELINK protocol. Its main features are:

- Control of 1 or 2 24V BT motors
- Note: 2 motors of the same type must be used.
- Electronic torque control with obstacle detection
- Limit switch control inputs based on motor selected

 Separate inputs for safety devices
 Built-in radio receiver rolling code with transmitter cloning.
 The board has a terminal strip of the removable kind to make maintenance or replacement easier. It comes with a series of prewired jumpers to make the installer's job on site easier.

The jumpers concern terminals: 70-71, 70-72, 70-74. If the above-mentioned terminals are being used, remove the relevant jumpers.

The **THALIA** panel controls (checks) the start relays and safety devices (photocells) before performing each opening and closing cycle.

If there is a malfunction, make sure that the connected devices are working properly and check the wiring.

3) TECHNICAL SPECIFICATIONS	
Power supply	230V~ ±10% 50Hz*
Low voltage/mains insulation	> 2MOhm 500V
Operating temperature range	-10 / +55°C
Thermal overload protection	Software
Dielectric rigidity	mains/LV 3750V~ for 1 minute
Motor output current	max. 7.5A+7.5A
Motor relay switching current	10A
Maximum motor power	180W + 180W (24V)

Accessories power supply	24V~ (demand max. 180mA) 24V~safe (demand max. 180mA)
AUX 3	NO contact (24V~/max.1A)
Flashing light	24V~ max. 25W
Dimensions	see Fig. B
Fuses	see Fig. C
N° of combinations:	4 billion
Max. n° of transmitters that can be memorized:	63

(\*other voltages to order)

**Usable transmitter versions:** 

All ROLLING CODE transmitters compatible with  $((\in R\text{-Ready}))$ 

# 4) TUBE ARRANGEMENT Fig. A

# 5) TERMINAL BOARD WIRING Fig. C

WARNINGS - When performing wiring and installation, refer to the standards in

force and, whatever the case, apply good practice principles. Wires carrying different voltages must be kept physically separate from each other, or they must be suitably insulated with at least 1mm of additional insulation. Wires must be secured with additional fastening near the terminals, using devices such as cable clamps.

All connecting cables must be kept far enough away from the dissipater.

WARNING! For connection to the mains power supply, use a multicore cable with a cross-sectional area of at least 3x1.5mm² of the kind provided for by the regulations in force.

To connect the motors, use a cable with a cross-sectional area of at least 1.5 mm<sup>2</sup> of the kind provided for by the regulations in force. By way of example, if the cable is run outside (unprotected), it must be at least type H07RN-F, while if it is run inside (in a raceway), it must be at least type H05 VV-F.

	TERM.	DEFINITION	DESCRIPTION					
	L	LINE	Single-phase power supply 230V~ ±10%, 50-60Hz.					
	N	NEUTRAL	T Single-phase power supply 230√ ±10%, 50-60Hz.					
Power supply	JP5	TRANSF PRIM	Transformer primary winding connection, 230V.					
	JP7	PKIIVI	December 2015					
	JP21 TRANSF SEC		Board power supply: 24V~ Transformer secondary winding 24V= Buffer battery power supply					
	10	MOT1+	Connection motor 1. Time lag during closing.					
Motor	11	MOT1 -	Connection motor 1. Time lag during closing.					
Motor	14	MOT2+	Connection motor 2. Time lag during opening.					
	15	MOT2 -	Connection motor 2. Time lag during opening.					
	20 21	LIGHT 24V	Flashing light 24V output max. 25W.					
·	- 21		Aux 3 logic= 0 - 2nd radio channel output. Contact stays closed for 1s when 2nd radio channel is activated.					
	26		Aux 3 logic= 1 - SCA Gate Open Light output. Contact stays closed during opening and with leaf open, intermittent during closing, open with leaf closed. In this case, the 2nd radio channel controls pedestrian opening.					
	26		Aux 3 logic= 2 - Courtesy light command output. Contact stays on for 90 seconds after the last operation. In this case, the 2nd radio channel controls pedestrian opening.					
Aux .		AUX 3 - FREE CONTACT	Aux 3 logic= 3 - Zone light command output. Contact stays closed for the full duration of operation. In this case, the 2nd radio channel controls pedestrian opening.					
		(N.O.) (Max 24V 3W)	Aux 3 logic= 4 - Stair light output. Contact stays closed for 1 second at start of operation. In this case, the 2nd radio channel controls pedestrian opening.					
		344)	Aux 3 logic= 5 - Gate open alarm output. Contact stays closed if the leaf stays open for double the set TCA time. In this case, the 2nd radio channel controls pedestrian opening.					
	27		Aux 3 logic= 6 - Flashing light output. Contact stays closed while leaves are operating. In this case, the 2nd radio channel controls pedestrian opening.					
			Aux 3 logic= 7 - Solenoid latch output. Contact stays closed for 2 seconds each time gate is opened. In this case, the 2nd radio channel controls pedestrian opening.					
			Aux 3 logic= 8 - Magnetic lock output. Contact stays closed while gate is closed. In this case, the 2nd radio channel controls pedestrian opening.					
	41	+ REF SWE	Limit switch common					
	42	SWC 1	Motor 1 closing limit switch SWC1 (N.C.).					
Limit switch for ELI 250 BT	43	SWO 1	Motor 1 opening limit switch SWO1 (N.C.).					
	44	SWC 2	Motor 2 closing limit switch SWC2 (N.C.).					
	45	SWO 2	Motor 2 opening limit switch SWO2 (N.C.).					
Limit switch	42	SW 1	Limit switch control motor 1. For actuators with single-wire limit switch control.					
BT – IGEA BT	43	SW 2	Limit switch control motor 2. For actuators with single-wire limit switch control.					
	50	24V-	Accessories power supply output.					
Accessories power supply	51	24V+	necessories power supply output					
,	52	24 Vsafe+	Tested safety device power supply output (photocell transmitter and safety edge transmitter). Output active only during operating cycle.					

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	60	Common	IC 1 and IC 2 inputs common
Commands	61	IC 1	Configurable command input 1 (N.O.) - Default START E. START E / START I / OPEN / CLOSE / PED / TIMER / TIMER PED. Refer to the "Command input configuration" table.
	62	IC 2	Configurable command input 2 (N.O.) - Default PED. START E / START I / OPEN / CLOSE / PED / TIMER / TIMER PED. Refer to the "Command input configuration" table.

	70	COMMON	STOP, SAFE 1 and SAFE 2 inputs common			
	71	STOP	The command stops movement. (N.C.) If not used, leave jumper inserted.			
Cofete de la cons	72 SAFE 1		Configurable safety input 1 (N.C.) - Default PHOT. PHOT/PHOT TEST/PHOT OP/PHOT OP TEST/PHOT CL/PHOT CL TEST/BAR/BAR TEST/BAR 8K2. Refer to the "Safety input configuration" table.			
Safety devices	73	FAULT 1	Test input for safety devices connected to SAFE 1.			
	74 SAFE 2		Configurable safety input 2 (N.C.) - Default BAR. PHOT/PHOT TEST/PHOT OP/PHOT OP TEST/PHOT CL/PHOT CL TEST/BAR/BAR TEST/BAR 8K2. Refer to the "Safety input configuration" table.			
	75	FAULT 2	Test input for safety devices connected to SAFE 2.			
A-1	Υ	ANTENNA	Antenna input.  Use an antenna tuned to 433MHz. Use RG58 coax cable to connect the Antenna and Receiver. Metal bodies close to the antenna can interfere			
Antenna	# SHIELD		Use an antenna tuned to 433MHz. Use RG58 Coax Cable to connect the Antenna and Receiver. Metal bodies close to the antenna can interfere with radio reception. If the transmitter's range is limited, move the antenna to a more suitable position.			

# **Command input configuration**

IC logic= 0 - Input configured as Start E. Operation according to STEP-BY-STEP MOV. logic. External start for traffic light control.

IC logic= 1 - Input configured as Start I. Operation according to STEP-BY-STEP MOV. logic. Internal start for traffic light control.

IC logic= 2 - Input configured as Open. The command causes the leaves to open. If the input stays closed, the leaves stay open until the contact is opened. When the contact is open, the automated device closes following the TCA time, where activated.

IC logic= 3 - Input configured as Closed. The command causes the leaves to close.

IC logic= 4 - Input configured as Ped. The command causes the leaf to open to the pedestrian (partial) opening position. Operation according to STEP-BY-STEP MOV. logic

IC logic= 5 - Input configured as Timer. Operation same as open except closing is guaranteed even after a mains power outage.

IC logic=6-Input configured as Timer Ped. The command causes the leaf to open to the pedestrian (partial) opening position. If the input stays closed, the leaf stays open until the contact is opened. If the input stays closed and a Start E, Start I or Open command is activated, a complete opening-closing cycle is performed before returning to the pedestrian opening position. Closing is guaranteed even after a mains power outage.

### Safety input configuration

SAFE logic= 0 - Input configured as Phot (photocell)(Fig.F Rif.1). Enables connection of devices not equipped with supplementary test contacts. When beam is broken, photocells are active during both opening and closing. When beam is broken during closing, movement is reversed only once the photocell is cleared. If not used, leave jumper inserted.

SAFE logic= 1 - Input configured as Phot test (tested photocell) (Fig.F. Rif.2). Switches photocell testing on at start of operation. When beam is broken, photocells are active during both opening and closing. When beam is broken during closing, movement is reversed only once the photocell is cleared.

SAFE logic= 2 - Input configured as Phot op (photocell active during opening only) (Fig.F Rif.1). Enables connection of devices not equipped with supplementary test contacts. In the event beam is broken, photocell operation is disabled during closing. During opening, stops motion for as long as the photocell beam stays broken. If not used, leave jumper inserted.

SAFE logic= 3 - Input configured as Phot op test (tested photocell active during opening only) (Fig.F Rif.2). Switches photocell testing on at start of operation. In the event beam is broken, photocell operation is disabled during closing. During opening, stops motion for as long as the photocell beam stays broken.

SAFE logic= 4 - Input configured as Phot cl (photocell active during closing only) (Fig.F Rif.1). Enables connection of devices not equipped with supplementary test contacts. In the event beam is broken, photocell operation is disabled during opening. During closing, movement is reversed immediately. If not used, leave jumper inserted.

SAFE logic= 5 - Input configured as Phot cl test (tested photocell active during closing only) (Fig.F Rif.2). Switches photocell testing on at start of operation. In the event beam is broken, photocell operation is disabled during opening. During closing, movement is reversed immediately.

SAFE logic= 6 - Input configured as Bar (safety edge) (Fig.F Rif.3). Enables connection of devices not equipped with supplementary test contacts. The command reverses movement for 2 sec.. If not used, leave jumper inserted.

SAFE logic= 7 - Input configured as Bar (tested safety edge) (Fig.F Rif.4). Switches safety edge testing on at start of operation. The command reverses movement for 2 sec.

SAFE logic= 8 - Input configured as Bar 8k2 (Fig.F Rif.5). Input for resistive edge 8K2. The command reverses movement for 2 sec.

# 6) MOTOR WIRING Fig. E

### 7) SAFETY DEVICES

Note: only use receiving safety devices with free changeover contact.

- 7.1) TESTED DEVICES Fig. F
- 7.2) CONNECTION OF 1 PAIR OF NON-TESTED PHOTOCELLS FIG. D
- 8) CALLING UP MENUS: FIG. 1
- 8.1) PARAMETERS MENU (PRc RG) (PARAMETERS TABLE "A")
- 8.2) LOGIC MENU (ໄດ້ພົດເ) (LOGIC TABLE "B")

# 8.3) RADIO MENU (r や (a) (RADIO TABLE "C")

- IMPORTANT NOTE: THE FIRST TRANSMITTER MEMORIZED MUST BE IDENTIFIED BY ATTACHING THE KEY LABEL (MASTER).

In the event of manual programming, the first transmitter assigns the RECEIVER'S KEY CODE: this code is required to subsequently clone the radio transmitters. The Clonix built-in on-board receiver also has a number of important advanced features:

- · Cloning of master transmitter (rolling code or fixed code).
- Cloning to replace transmitters already entered in receiver.

- Transmitter database management.
- Receiver community management.

To use these advanced features, refer to the universal handheld programmer's instructions and to the general receiver programming guide.

# 8.4) DEFAULT MENU (dEFRULE)

Restores the controller's DEFAULT factory settings. Following this reset, you will need to run the AUTOSET function again.

# 8.5) LANGUAGE MENU (Lลิกฉินิสิฉิยิ)

Used to set the programmer's language on the display.

# 8.6) AUTOSET MENU (೧೮೭೦ SEŁ)

- · Launch an autoset operation by going to the relevant menu.
- As soon as you press the OK button, the ".... .... ..." message is displayed and the
  control unit commands the device to perform a full cycle (opening followed by
  closing), during which the minimum torque value required to move the leaf is set
  automatically.

The number of cycles required for the autoset function can range from 1 to 3. During this stage, it is important to avoid breaking the photocells' beams and not to use the START and STOP commands or the display.

Once this operation is complete, the control unit will have automatically set the optimum torque values. Check them and, where necessary, edit them as described in the programming section.

WARNING!! Check that the force of impact measured at the points /!\ provided for by standard EN 12445 is lower than the value laid down by standard EN 12453.

Warning!! While the autoset function is running, the obstacle detection function is not active. Consequently, the installer must monitor the automated system's movements and keep people and property out of range

### 8.7) STATISTICS MENU

Used to view the version of the board, the total number of operations (in hundreds), the number of transmitters memorized and the last 30 errors (the first 2 digits indicate the position, the last 2 give the error code). Error 01 is the

### 8.8) PASSWORD MENU

Used to set a password for the board's wireless programming.

9) CLOSING LIMIT SWITCH PRESSURE Fig. G Ref. A-B **OPENING DIRECTION Fig. G Ref. C-D** 

10) CONNECTION WITH EXPANSION BOARDS AND UNIVERSAL HANDHELD PROGRAMMER VERSION> V1.40 (Fig. H) Refer to specific manual.

# 11) SOLENOID LOCK Fig. I

**SQLENOID LOCK** 

WARNING: In the case of leaves longer than 3m, it is essential to install WAKINING. .... a solenoid lock.

Fig. I shows a sample connection of an ECB 24V~ solenoid latch connected to the THALIA control panel.

In order to control the solenoid lock, the THALIA panel needs a special board mod. ME BT.

WARNING! Incorrect settings can result in damage to property and injury to people

and animals.

Marning: Check that the force of impact measured at the points WARNING: Check that the force of impact measured at the points provided for by standard EN 12445 is lower than the value laid down by standard EN 12453.

For best results, it is advisable to run the autoset function with the motors idle (i.e. not overheated by a considerable number of consecutive operations).

# TABLE "A" - PARAMETERS MENU - (PRc RD)

Parameter	min.	max.	Default	Personal	Definition	Description
oPEn dELRY E iNE	0	10	1		Motor 2 opening delay time [s]	Motor 2 opening delay time with respect to motor 1.
eLS dELAA E WE	0	25	1		Motor 1 closing delay time [s]	Motor 1 closing delay time with respect to motor 2.
EcA	0	120	10		Automatic closing time [s]	Waiting time before automatic closing.
trFLGht.clr.t	1	180	40		Time-to-clear traffic light zone [s]	Time-to-clear for the zone run through by traffic controlled by the traffic light.
oP.d (St.SLoUd	0	50	10		Slow-down distance during opening [%]	Slow-down distance for motor(s) during opening, given as a percentage of total travel. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.
cL.d :5E.5LoUd	0	50	10		Slow-down distance during closing [%]	Slow-down distance for motor(s) during closing, given as a percentage of total travel. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.
d :5E.dEcEL	0	50	15		Deceleration distance [%]	Deceleration distance (switch from running speed to slow-down speed) for motor(s) both during opening and during closing, given as a percentage of total travel. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.
oPForcE	1	99	50		Leaf force during opening [%]	Force exerted by leaf/leaves during opening. This is the percentage of force delivered, beyond the force stored during the autoset cycle (and subsequently updated), before an obstacle alarm is generated.  The parameter is set automatically by the autoset function.  WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). Install anticrush safety devices where necessary.
cLSForcE	1	99	50		Leaf force during closing [%]	Force exerted by leaf/leaves during closing. This is the percentage of force delivered, beyond the force stored during the autoset cycle (and subsequently updated), before an obstacle alarm is generated.  The parameter is set automatically by the autoset function.  WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). Install anticrush safety devices where necessary.
oP SPEEd	15	99	99		Opening speed [%}	Percentage of maximum speed that can be reached by motor(s) during opening. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.
cL SPEEd	15	99	99		Closing speed [%]	Percentage of maximum speed that can be reached by motor(s) during closing. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.
SLob SPEEd	15	99	25		Slow-down speed [%]	Opening and closing speed of motor(s) during slow-down stage, given as a percentage of maximum running speed. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: When the display reads ""SET"", obstacle detection is not active.

(\*) In the European Union, apply standard EN 12453 for force limitations, and standard EN 12445 for measuring method.

			IN	ISTALLATION MANUAL						
ABLE "B" - LOGIC	MENU - ()	oficie)								
Logic	Default	Definition	Cross out setting used	Description						
		Motor type	0	Motors not active						
Notor EYPE	0	Set the type of motor connected to the	2	PHOBOS BT						
		board.	3	IGEA BT						
ŁcR	<u> </u>	Automatic Closing	0	Logic not enabled						
	0	Time	1	Switches automatic closing on						
FRSE cLS.	0	Fast closing	0	Logic not enabled						
, , , , , , , , , , , , , , , , , , ,	ļ .	rast closing	1		ared before waiting for the set TCA to elapse.					
			0	Inputs configured as Start E, Start I, Ped operate with 4-step logic.		step-by	-step mov.			
						2 STEP	3 STEP	4 STEI		
				Inputs configured as Start E, Start I, Ped	CLOSED			OPEN:		
SEEP-BY-SEEP		Step-by-step	1	operate with 3-step logic. Pulse during	DURING	OPENS	OPENS	STOPS		
ΠουΕΠηΕ	0	movement		closing reverses movement.	CLOSING			31073		
					OPEN		CLOSES	CLOSE		
				Inputs configured as Start E, Start I, Ped	DURING	CLOSES	STOP + TCA	STOP + T		
			2	operate with 2-step logic. Movement	OPENING					
				reverses with each pulse.	AFTER STOP	OPENS	OPENS	OPEN:		
PrE-ALArn	0	Pre-alarm	0	The flashing light comes on at the same time as						
	<u> </u>		0	The flashing light comes on approx. 3 second	ls before the m	notor(s) sta	rt.			
			0	Pulse operation.  Deadman mode.						
			1	Input 61 is configured as OPEN UP. Input 62 is configured as CLOSE UP. Operation continues as long as the OPEN UP or CLOSE UP keys are held down.  WARNING: safety devices are not enabled.						
			2	Emergency Deadman mode. Usually pulse of If the board fails the safety device tests (phot is switched to Deadman mode, which will streleased.  Input 61 is configured as OPEN UP.  Input 62 is configured as CLOSE UP.  WARNING: with the device set to Emergence of the board of the	ocell or safety tay active unt	safety edge, Er0x) 3 times in a row, the de				
ibL oPEn	0	Block pulses	0	Pulse from inputs configured as Start E, Start						
	<del> </del>	during opening Block pulses	0	Pulse from inputs configured as Start E, Start Pulse from inputs configured as Start E, Start I						
ibL EcA	0	during TCA	0 1	Pulse from inputs configured as Start E, Start I,						
			0	Movement is stopped only when the closin closing limit switch must be adjusted accura	g limit switch	trips: in th		ipping of		
PrESS Suc	0	Closing limit switch pressure	1	Use when there is a mechanical stop in closed the mechanical stop without the Amperost rod continues its stroke for a few seconds at mechanical stop. In this way, the leaves con	op sensor inte fter meeting the ne to rest perfe	rpreting the closing	nis as an obsta Iimit switch o	cle. Thus r as far as		
				closing limit switches to trip slightly earlier (	rig.d hei.A).					
		1 motor active	0	closing limit switches to trip slightly earlier (l Both motors active (2 leaves).	rig.d kei.A).					
l Not. on	0	1 motor active	1	Both motors active (2 leaves). Only motor 1 active (1 leaf).	rig.d hei.A).					
I Not. on oPEn		Open in other		Both motors active (2 leaves).	rig.d nei. <i>A)</i> .					
l Not. on	0		1	Both motors active (2 leaves). Only motor 1 active (1 leaf).		Fig.G Ref.[	D).			
l Not. on oPEn in othEr		Open in other	1 0	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C).		Fig.G Ref.L	)). 			
l Not. on oPEn in othEr		Open in other	1 0 1 0	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operati Input configured as Phot (photocell). Input configured as Phot test (tested photocell)	ng mode (See ell).		)).			
l Not. on oPEn in othEr		Open in other direction	1 0 1 0 1 2	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operati Input configured as Phot (photocell). Input configured as Phot test (tested photocell) active to possible to possible the configured of the configuration of the configur	ng mode (See ell). e during open	ing only).				
I Not. on oPEn in other d irEct.	0	Open in other	1 0 1 0 1 2 3	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operati Input configured as Phot (photocell). Input configured as Phot test (tested photoc Input configured as Phot op (photocell activ Input configured as Phot op test (tested photoc	ng mode (See ell). e during open tocell active d	ing only). uring oper				
l Not. on oPEn in othEr		Open in other direction  Configuration of safety input SAFE 1.	1 0 1 0 1 2 3 4	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operati Input configured as Phot (photocell). Input configured as Phot test (tested photoc Input configured as Phot op (photocell activ Input configured as Phot op test (tested photoc Input configured as Phot of test (tested photoc) Input configured as Phot of (photocell active)	ng mode (See ell). e during open tocell active d during closing	ing only). uring oper g only).	ning only).			
I Not. on oPEn in other d irEct.	0	Open in other direction  Configuration of safety input SAFE	1 0 1 0 1 2 3	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operati Input configured as Phot (photocell). Input configured as Phot test (tested photoc Input configured as Phot op (photocell activ Input configured as Phot op test (tested photoc	ng mode (See ell). e during open tocell active d during closing	ing only). uring oper g only).	ning only).			
I Not. on oPEn in other d irEct.	0	Open in other direction  Configuration of safety input SAFE 1.	1 0 1 0 1 2 3 4 5	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operati Input configured as Phot (photocell). Input configured as Phot test (tested photoc Input configured as Phot op (photocell activ Input configured as Phot op test (tested phot Input configured as Phot of (photocell active Input configured as Phot of (tested phot Input configured as Phot of test (tested phot	ng mode (See ell). e during open tocell active d during closing	ing only). uring oper g only).	ning only).			
I Not. on oPEn in other d irEct.	0	Open in other direction  Configuration of safety input SAFE 1.	1 0 1 0 1 2 3 4 5	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operati Input configured as Phot (photocell). Input configured as Phot test (tested photoc Input configured as Phot op (photocell activ Input configured as Phot op test (tested phot Input configured as Phot cl (photocell active Input configured as Phot cl (tested phot Input configured as Phot cl test (tested phot Input configured as Bar, safety edge.	ng mode (See ell). e during open tocell active d during closing	ing only). uring oper g only).	ning only).			
I Not. on oPEn in other d irEct.	0	Open in other direction  Configuration of safety input SAFE 1.	1 0 1 0 1 2 3 4 5 6 7 8	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operati Input configured as Phot (photocell). Input configured as Phot op (photocell activ Input configured as Phot op (stested photocell) active Input configured as Phot of (photocell active) Input configured as Phot of (stested photol) Input configured as Phot of test (tested photol) Input configured as Phot of test (tested photol) Input configured as Bar, safety edge. Input configured as Bar, tested safety edge. Input configured as Bar 8k2. Input configured as Phot (photocell).	ng mode (See ell). e during open tocell active d during closing ocell active du	ing only). uring oper g only).	ning only).			
I Not. on oPEn in other d irEct.	0	Open in other direction  Configuration of safety input SAFE 1.	1 0 1 0 1 2 3 4 5 6 7 8 0	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operati Input configured as Phot (photocell). Input configured as Phot op (photocell activ Input configured as Phot op (stested photol) Input configured as Phot of (photocell active) Input configured as Phot cl (photocell active) Input configured as Phot cl test (tested phot Input configured as Bar, safety edge. Input configured as Bar, tested safety edge. Input configured as Bar 8k2. Input configured as Phot (photocell). Input configured as Phot test (tested photocell). Input configured as Phot test (tested photocell).	ng mode (See ell). e during open tocell active d during closing ocell active du	ing only). uring oper g only). ring closin	ning only).			
I Not. on oPEn in other d irEct.	0	Open in other direction  Configuration of safety input SAFE 1.	1 0 1 0 1 2 3 4 5 6 7 8 0	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operati Input configured as Phot (photocell). Input configured as Phot op (photocell activ Input configured as Phot op test (tested photol Input configured as Phot of (photocell activ Input configured as Phot cl (photocell active Input configured as Phot cl test (tested phot Input configured as Bar, safety edge. Input configured as Bar, tested safety edge. Input configured as Bar 8k2. Input configured as Phot (photocell). Input configured as Phot test (tested photol Input configured as Phot test (tested photol Input configured as Phot test (tested photol Input configured as Phot op (photocell activ	ng mode (See ell). e during open tocell active d during closing ocell active du ell). e during open	ing only). uring oper g only). ring closin ing only).	ning only). g only).			
I Not. on oPEn in other d irEct.	0	Open in other direction  Configuration of safety input SAFE  1. 72  Configuration of safety input SAFE	1 0 1 0 1 2 3 4 5 6 7 8 0 1 2 3	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operati Input configured as Phot (photocell). Input configured as Phot op (photocell activ Input configured as Phot op test (tested photologue) as Phot of test (tested photologue) as Bar, safety edge. Input configured as Bar, tested safety edge. Input configured as Bar, tested safety edge. Input configured as Phot (photocell). Input configured as Phot test (tested photologue) as Phot of (photocell). Input configured as Phot of (photocell) activ	ng mode (See ell). e during open tocell active d during closing ocell active du ell). e during open tocell active d	ing only). uring oper g only). ring closin ing only). uring oper	ning only). g only).			
I flot. on  oPEn in other dirEct.	0	Open in other direction  Configuration of safety input SAFE  1. 72  Configuration of safety input SAFE 2.	1 0 1 0 1 2 3 4 5 6 7 8 0	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operatil Input configured as Phot (photocell). Input configured as Phot op (photocell active) Input configured as Phot op test (tested photol) Input configured as Phot of test (tested photol) Input configured as Phot of test (tested phot) Input configured as Phot of test (tested phot) Input configured as Bar, safety edge. Input configured as Bar, tested safety edge. Input configured as Phot (photocell). Input configured as Phot test (tested photol) Input configured as Phot op (photocell active) Input configured as Phot op (photocell active) Input configured as Phot of (photocell active)	ng mode (See ell). e during open tocell active d during closing ocell active du ell). e during open tocell active d during open	ing only). uring oper g only). ring closin ing only). uring oper g only).	ning only). g only). ning only).			
I flot. on  oPEn in other dirEct.	0	Open in other direction  Configuration of safety input SAFE  1. 72  Configuration of safety input SAFE	1 0 1 0 1 2 3 4 5 6 7 8 0 1 2 3 4	Both motors active (2 leaves). Only motor 1 active (1 leaf). Standard operating mode (See Fig.G Ref.C). Opens in other direction to standard operati Input configured as Phot (photocell). Input configured as Phot op (photocell activ Input configured as Phot op test (tested photologue) as Phot of test (tested photologue) as Bar, safety edge. Input configured as Bar, tested safety edge. Input configured as Bar, tested safety edge. Input configured as Phot (photocell). Input configured as Phot test (tested photologue) as Phot of (photocell). Input configured as Phot of (photocell) activ	ng mode (See ell). e during open tocell active d during closing ocell active du ell). e during open tocell active d during open	ing only). uring oper g only). ring closin ing only). uring oper g only).	ning only). g only). ning only).			

			IN	ISTALLATION MANUAL
			0	Input configured as Start E.
			1	Input configured as Start I.
		Configuration of	2	Input configured as Open.
. <del>.</del> !	ıc ( 0	command input	3	Input configured as Open.
15 1	"	IC 1.	4	Input configured as Close. Input configured as Ped.
		61	5	Input configured as Tree.
			6	Input configured as Timer.  Input configured as Timer Pedestrian.
			0	Input configured as timer redestrian.  Input configured as Start E.
			1	Input configured as Start I.
		Configuration of	2	Input configured as Open.
ıc 2	4	command input	3	Input configured as Open.
'L L	~	IC 2.	4	Input configured as Close.
		62	5	Input configured as Treu.
			6	Input configured as Timer.  Input configured as Timer Pedestrian.
			0	Output configured as 1111er redestrial.  Output configured as 2nd Radio Channel.
			1	Output configured as SCA (gate open light).
			2	Output configured as SCA (gate open light).  Output configured as Courtesy Light command.
			3	
DI 11 7	_	Configuration of		Output configured as Zone Light command.
RUH 3	0	AUX 3 output. 26-27	4	Output configured as Stair Light
		20-2/	5	Output configured as Alarm
			6	Output configured as Flashing light
			7	Output configured as Latch
			8	Output configured as Magnetic lock
	1Ed codE 0		0	Receiver is configured for operation in rolling-code mode.
F HEd codE		Fixed code		Fixed-Code Clones are not accepted.
		1	Receiver is configured for operation in fixed-code mode. Fixed-Code Clones are accepted.	
				Disables wireless memorizing of transmitters.
		0	Transmitters are memorized only using the relevant Radio menu.	
		U	IMPORTANT: Disables the automatic addition of new transmitters, clones and replays.	
				Enables wireless memorizing of transmitters: 1- Press in sequence the hidden key and normal
rRd ₁o Proū	1	Transmitter		key (T1-T2-T3-T4) of a transmitter that has already been memorized in standard mode via the
		programming	1	radio menu. 2- Press within 10s the hidden key and normal key (T1-T2-T3-T4) of a transmitter
			1	to be memorized. The receiver exits programming mode after 10s: you can use this time
				the control of the control to a constitution. This control of the
				IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.
		Serial mode	0	
בר מי מיני	0	Identifies how	0	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.
SEr AL NodE	0	Identifies how board is configured	0	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other
SEr AL NodE	0	Identifies how board is configured in a BFT network		IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.
		Identifies how board is configured in a BFT network connection	1	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.
SEr AL NodE AddrESS	0	Identifies how board is configured in a BFT network	1	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.
		Identifies how board is configured in a BFT network connection	1 []	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.
		Identifies how board is configured in a BFT network connection	1 [] 0 1	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.
		Identifies how board is configured in a BFT network connection	1 [] 0 1 2	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.
		Identifies how board is configured in a BFT network connection	1 [] 0 1 2 3	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Close command.
		Identifies how board is configured in a BFT network connection	1 [] 0 1 2 3 4	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Close command.  Input configured as Ped command.
		Identifies how board is configured in a BFT network connection	1 [] 0 1 2 3 4 5	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Close command.  Input configured as Ped command.  Input configured as Timer command.
		Identifies how board is configured in a BFT network connection	1 [] 0 1 2 3 4 5 6	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Close command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.
		Identifies how board is configured in a BFT network connection	1 [] 0 1 2 3 4 5 6 7	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.
		Identifies how board is configured in a BFT network connection  Address	1 [] 0 1 2 3 4 5 6 7 8	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Close command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).
		Identifies how board is configured in a BFT network connection  Address  Configuration	1 [] 0 1 2 3 4 5 6 7 8 9	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Close command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).  Input configured as Phot cl safety (photocell active during closing only).
		Identifies how board is configured in a BFT network connection  Address  Configuration of EXPI1 input	1 [] 0 1 2 3 4 5 6 7 8	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Close command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).  Input configured as Brasafety (safety edge).
RddrESS	0	Identifies how board is configured in a BFT network connection  Address  Configuration	1 [] 0 1 2 3 4 5 6 7 8 9 10	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Close command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).  Input configured as Bar safety (safety edge).  Input configured as Phot test safety (tested photocell).
RddrESS	0	Identifies how board is configured in a BFT network connection  Address  Configuration of EXPI1 input on input-output	1 [] 0 1 2 3 4 5 6 7 8 9	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Close command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).  Input configured as Bar safety (safety edge).  Input configured as Phot test safety (tested photocell).  Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test
RddrESS	0	Identifies how board is configured in a BFT network connection  Address  Configuration of EXP11 input on input-output expansion board	1 [] 0 1 2 3 4 5 6 7 8 9 10	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Open command.  Input configured as Open command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).  Input configured as Bar safety (safety edge).  Input configured as Phot test safety (tested photocell).  Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
RddrESS	0	Identifies how board is configured in a BFT network connection  Address  Configuration of EXP11 input on input-output expansion board	1 [] 0 1 2 3 4 5 6 7 8 9 10	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Open command.  Input configured as Open command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).  Input configured as Bar safety (safety edge).  Input configured as Phot test safety (tested photocell).  Input configured as Phot test safety (tested photocell).  Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.  Input configured as Phot op test safety (tested photocell active during opening only).
RddrESS	0	Identifies how board is configured in a BFT network connection  Address  Configuration of EXP11 input on input-output expansion board	1 [] 0 1 2 3 4 5 6 7 8 9 10	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Open command.  Input configured as Open command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).  Input configured as Brasafety (safety edge).  Input configured as Phot test safety (tested photocell).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).
Rddr ESS	0	Identifies how board is configured in a BFT network connection  Address  Configuration of EXP11 input on input-output expansion board	1 [] 0 1 2 3 4 5 6 7 8 9 10	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Close command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).  Input configured as Bar safety (safety edge).  Input configured as Phot test safety (tested photocell).  Input configured as Phot test safety (tested photocell).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot test safety (tested photocell).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
	0	Identifies how board is configured in a BFT network connection  Address  Configuration of EXP11 input on input-output expansion board	1 [] 0 1 2 3 4 5 6 7 8 9 10 11	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).  Input configured as Bar safety (safety edge).  Input configured as Phot test safety (tested photocell).  Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.  Input configured as Phot cl test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot of test safety (tested photocell active during opening only).  Input configured as Phot cl test safety (tested photocell active during opening only).
RddrESS	0	Identifies how board is configured in a BFT network connection  Address  Configuration of EXP11 input on input-output expansion board	1 [] 0 1 2 3 4 5 6 7 8 9 10	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Start I command.  Input configured as Open command.  Input configured as Ped command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).  Input configured as Phot cl safety (photocell active during closing only).  Input configured as Phot test safety (tested photocell).  Input a (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.  Input configured as Phot of test safety (tested photocell active during opening only).  Input configured as Phot of test safety (tested photocell active during opening only).  Input configured as Phot of test safety (tested photocell active during opening only).  Input configured as Phot of test safety (tested photocell active during opening only).  Input configured as Phot of test safety (tested photocell active during closing only).  Input configured as Phot of test safety (tested photocell active during closing only).  Input configured as Phot of test safety (tested photocell active during closing only).  Input configured as Phot of test safety (tested photocell active during closing only).  Input configured as Phot of test safety (tested photocell active during closing only).  Input configured as Phot of test safety (tested photocell active during closing only).  Input configured as Phot of test safety (tested photocell active during closing only).
RddrESS	0	Identifies how board is configured in a BFT network connection  Address  Configuration of EXP11 input on input-output expansion board	1 [] 0 1 2 3 4 5 6 7 8 9 10 11	IMPORTANT: Enables the automatic addition of new transmitters, clones and replays.  Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Open command.  Input configured as Close command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).  Input configured as Phot cl safety (photocell active during closing only).  Input configured as Phot test safety (tested photocell).  Input configured as Phot test safety (tested photocell).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input a (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.  Input configured as Phot cl test safety (tested photocell active during closing only).  Input configured as Phot cl test safety (tested photocell active during closing only).  Input configured as Phot cl test safety (tested photocell active during closing only).  Input configured as Phot cl test safety (tested photocell active during closing only).  Input configured as Phot cl test safety (tested photocell active during closing only).  Input configured as Phot cl test safety (tested photocell active during closing only).
AddrESS	0	Identifies how board is configured in a BFT network connection  Address  Configuration of EXP11 input on input-output expansion board	1 [] 0 1 2 3 4 5 6 7 8 9 10 11	Standard SLAVE: board receives and communicates commands/diagnostics/etc.  Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.  Identifies board address from 0 to 127 in a local BFT network connection.  Input configured as Start E command.  Input configured as Open command.  Input configured as Close command.  Input configured as Ped command.  Input configured as Ped command.  Input configured as Timer command.  Input configured as Timer Pedestrian command.  Input configured as Phot (photocell) safety.  Input configured as Phot op safety (photocell active during opening only).  Input configured as Phot op safety (safety edge).  Input configured as Phot test safety (tested photocell).  Input configured as Phot test safety (tested photocell).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot op test safety (tested photocell active during opening only).  Input configured as Phot of test safety (tested photocell active during closing only).  Input configured as Phot ol test safety (tested photocell active during closing only).  Input configured as Phot ol test safety (tested photocell active during closing only).  Input configured as Phot ol test safety (tested photocell active during closing only).

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			0	Input configured as Start E command.			
			1	Input configured as Start I command.			
		Configuration of	2	Input configured as Open command.			
			3	Input configured as Close command.			
	EHP 12 0	EXPI2 input	4	Input configured as Ped command.			
EHP 12		on input-output	5	Input configured as Timer command.			
		expansion board	6	Input configured as Timer Pedestrian command.			
		1-3	7	Input configured as Phot (photocell) safety.			
			8	Input configured as Phot op safety (photocell active during opening only).			
			9	Input configured as Phot cl safety (photocell active during closing only).			
			10	Input configured as Bar safety (safety edge).			
			0	Output configured as 2nd Radio Channel.			
			1	Output configured as SCA (gate open light).			
		Configuration of EXPO2 output on input-output expansion board 4-5	2	Output configured as Courtesy Light command.			
			3	Output configured as Zone Light command.			
EHPo I	9		4	Output configured as Stair Light.			
	9		5	Output configured as Alarm.			
			6	Output configured as Flashing light.			
			7	Output configured as Latch.			
			8	Output configured as Magnetic lock.			
			9	Output configured as Traffic Light control with TLB board.			
			0	Output configured as 2nd Radio Channel.			
			1	Output configured as SCA (gate open light).			
			2	Output configured as Courtesy Light command.			
		Configuration of	3	Output configured as Zone Light command.			
EHPo2	9	EXPO2 output on input-output	4	Output configured as Stair Light.			
בייי טב	,	expansion board	5	Output configured as Alarm.			
		6-7	6	Output configured as Flashing light.			
			7	Output configured as Latch.			
			8	Output configured as Magnetic lock.			
			9	Output configured as Traffic Light control with TLB board.			
ErRFF ic LiGht	0	Traffic light	0	Pre-flashing switched off.			
PrEFLASh inG	U	pre-flashing	1	Red lights flash, for 3 seconds, at start of operation.			
ErRFF ic LiGht		Steadily lit red	0	Red lights off when gate closed.			
rEd LANP AL- URYS on	0 Steadily lit red  -	1	Red lights on when gate closed.				

# TABLE "C" - RADIO MENU (r Ad 10)

Logic	Description
Add SEArt	Add Start Key associates the desired key with the Start command
Rdd 2ch	Add 2ch Key associates the desired key with the 2nd radio channel command
ErASE 64	Erase List WARNING! Erases all memorized transmitters from the receiver's memory.
cod rH	Read receiver code Displays receiver code required for cloning transmitters.
uК	ON = Enables remote programming of cards via a previously memorized W LINK transmitter.  It remains enabled for 3 minutes from the time the W LINK transmitter is last pressed.  OFF= W LINK programming disabled.

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