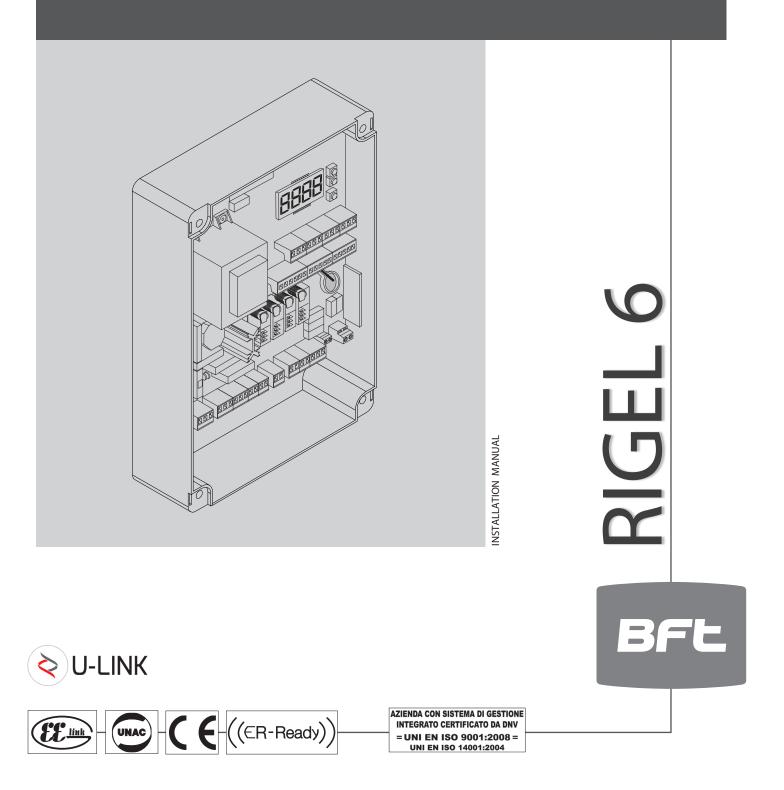


UNIVERSAL CONTROL UNIT FOR ONE OR TWO MOTORS



USER WARNINGS (GB)

WARNING! Important safety instructions. Carefully read and comply with the Warnings and Instructions that come with the product as improper use can cause injury to people and animals and damage to property. Keep the instructions for future reference and hand them on to any new users.

This product is meant to be used only for the purpose for which it was explicitly installed.

- Do not allow children to play or stand within range of the automated system.
- The unit can be used by children over 8 years old and by people with reduced physical, sensory or mental capabilities or with no experience or necessary knowledge on condition they are supervised or trained about the safe use of the equipment and understand the risks involved. Children must not play with the unit. Cleaning and maintenance must not be performed by unsupervised children.
- Children must be supervised to ensure they do not play with the device. Do not allow children to play with the fixed controls. Keep remote controls out of reach of children.
- Do not work near hinges or moving mechanical parts.
- Do not hinder the leaf's movement and do not attempt to open the door manually unless the actuator has been released with the relevant release knob.
- Keep out of range of the motorized door or gate while they are moving.
- Keep remote controls or other control devices out of reach of children in order to avoid the automated system being operated inadvertently.
- The manual release's activation could result in uncontrolled door movements if there are mechanical faults or loss of balance.
- When using roller shutter openers: keep an eye on the roller shutter while it is moving and keep people away until it has closed completely. Exercise care when activating the release, if such a device is fitted, as an open shutter could drop quickly in the event of wear or breakage.
- The breakage or wear of any mechanical parts of the door (operated part), such as cables, springs, supports, hinges, guides..., may generate a hazard. Have the system checked by qualified, expert personnel (professional installer) at regular intervals according to the instructions issued by the installer or manufacturer of the door.
- When cleaning the outside, always cut off mains power.
- Keep the photocells' optics and illuminating indicator devices clean. Check that no branches or shrubs interfere with the safety devices.
- Do not use the automated system if it is in need of repair. In the event the automated system breaks down or malfunctions, cut off mains power to the system; do not attempt to repair or perform any other work to rectify the fault yourself and instead call in qualified, expert personnel (professional installer) to perform the necessary repairs or maintenance. To allow access, activate the emergency release (where fitted).

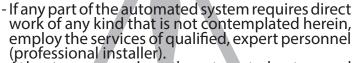
Any other use constitutes improper use and, consequently, is hazardous. The manufacturer cannot be held liable for any damage as a result of improper, incorrect or unreasonable use. GENERAL SAFETY

Thank you for choosing this product. The Firm is confident that its performance will meet your operating needs.

This product meets recognized technical standards and complies with safety provisions when installed correctly by qualified, expert personnel (professional installer).

If installed and used correctly, the automated system will meet operating safety standards. Nonetheless, it is advisable to observe certain rules of behaviour so that accidental problems can be avoided:

 Keep adults, children and property out of range of the automated system, especially while it is moving.



- At least once a year, have the automated system, and especially all safety devices, checked by qualified, expert personnel (professional installer) to make sure that it is undamaged and working properly.
- A record must be made of any installation, maintenance and repair work and the relevant documentation kept and made available to the user on request.
- Failure to comply with the above may result in hazardous situations.

SCRAPPING

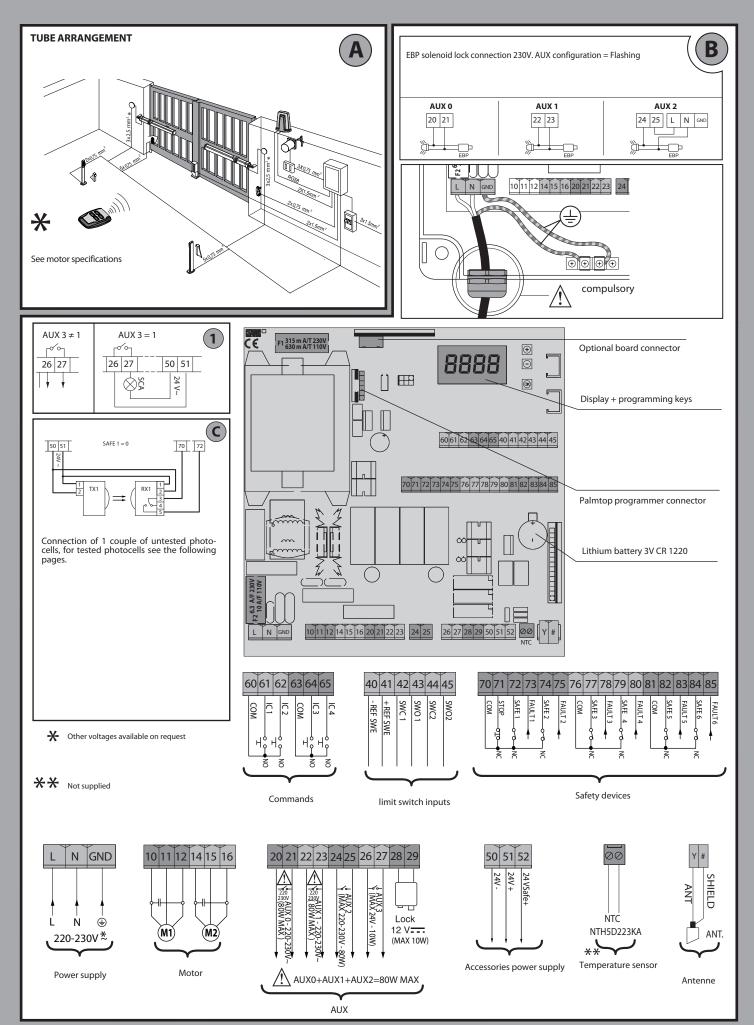
Materials must be disposed of in accordance with the regulations in force. Do not throw away your discarded equipment or

 used bat-teries with household waste. You are respon-sible for taking all your waste electrical and electronic equipment to a suitable recycling centre.

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

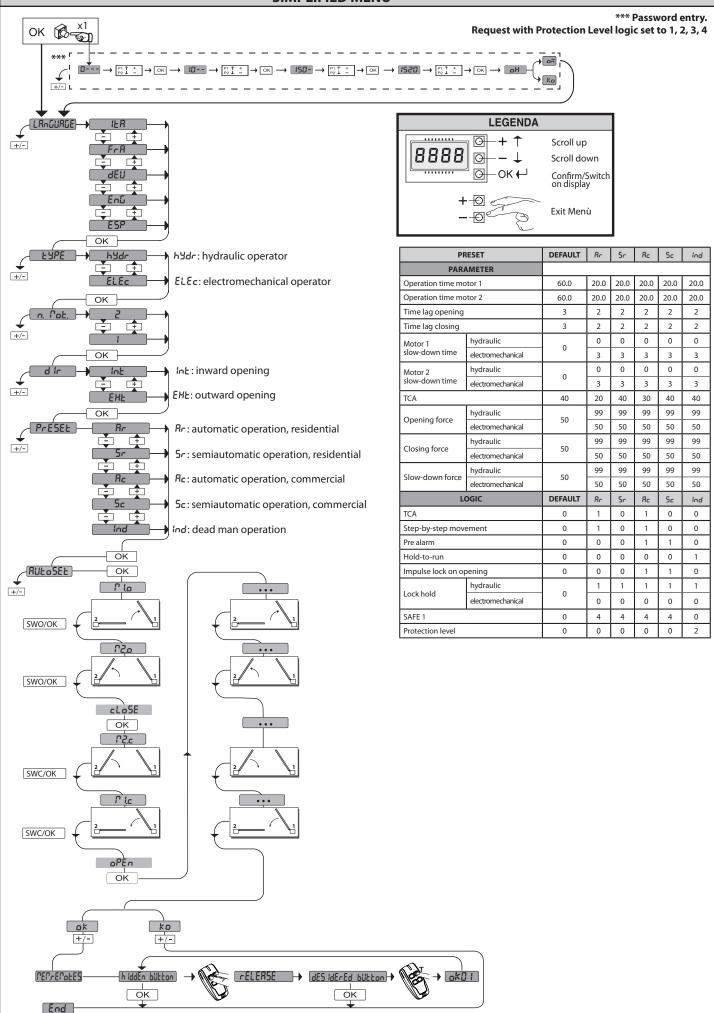
While we will not alter the product's essential features, the Firm reserves the right, at any time, to make those changes deemed opportune to improve the product from a technical, design or commercial point of view, and will not be required to update this publication accordingly.

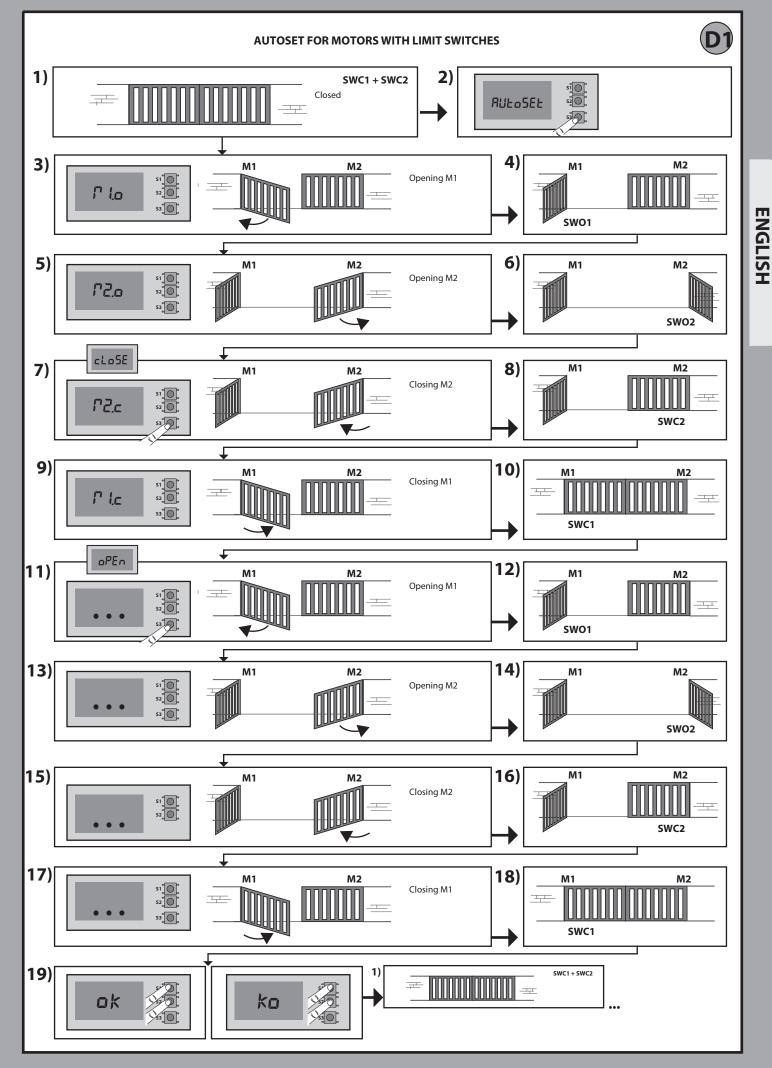
QUICK INSTALLATION

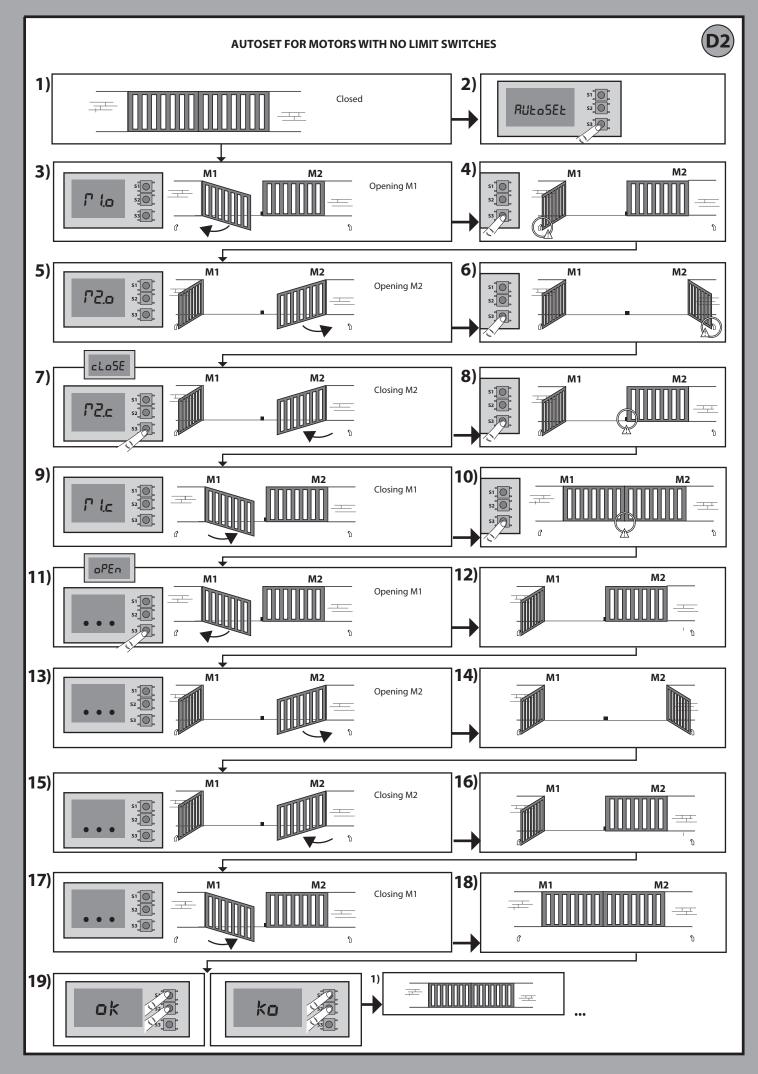


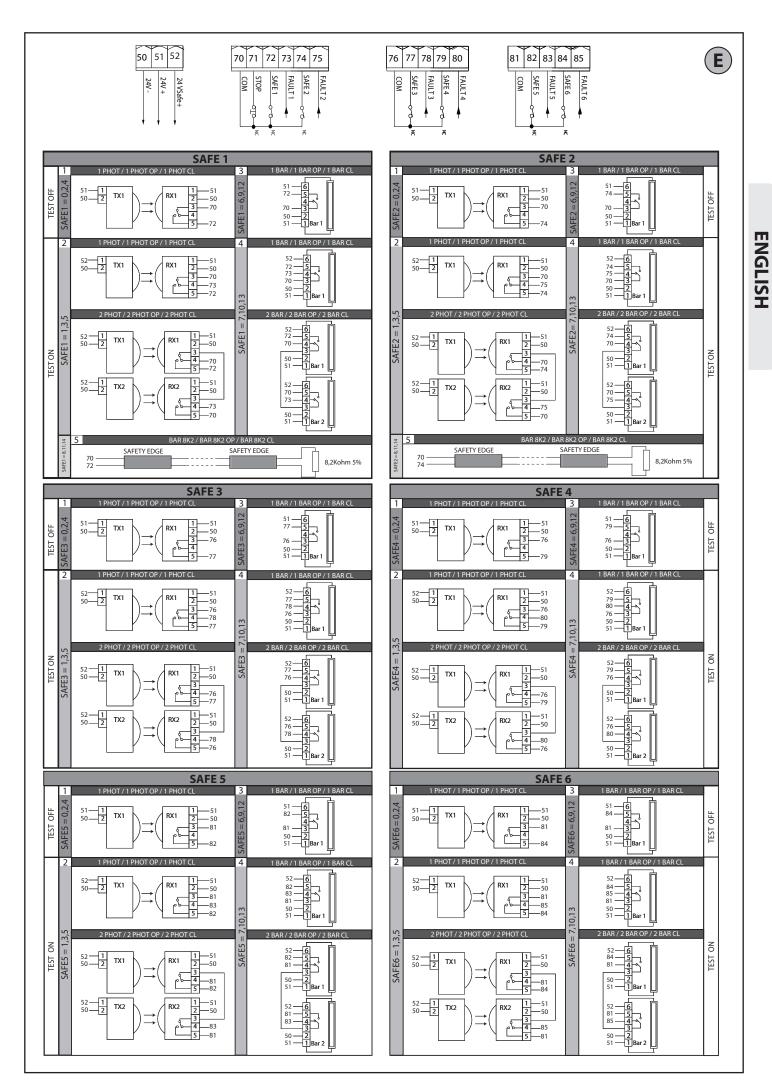
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SIMPLIFIED MENU

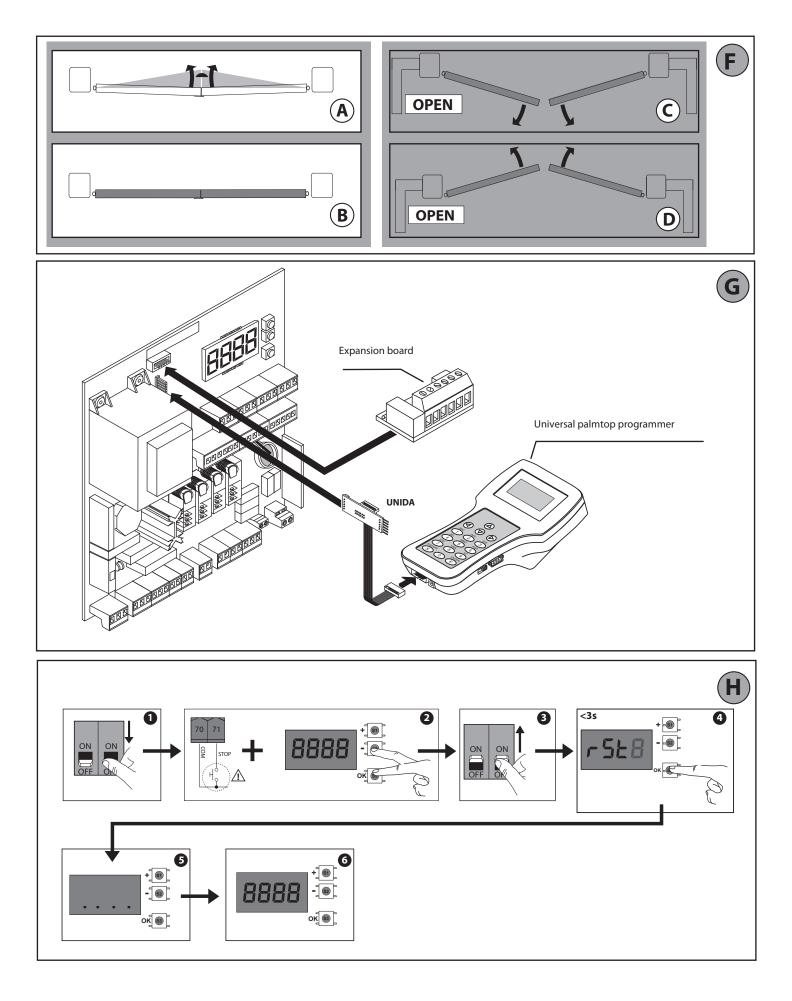








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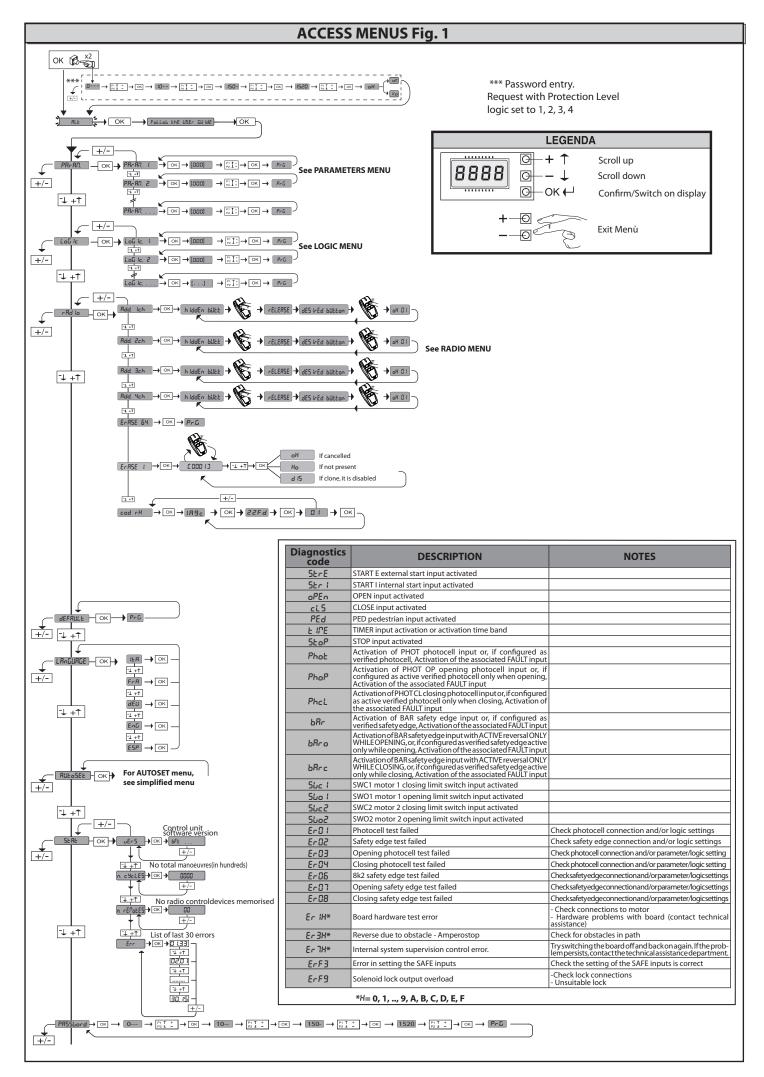
TIMER MENU PROGRAMMING

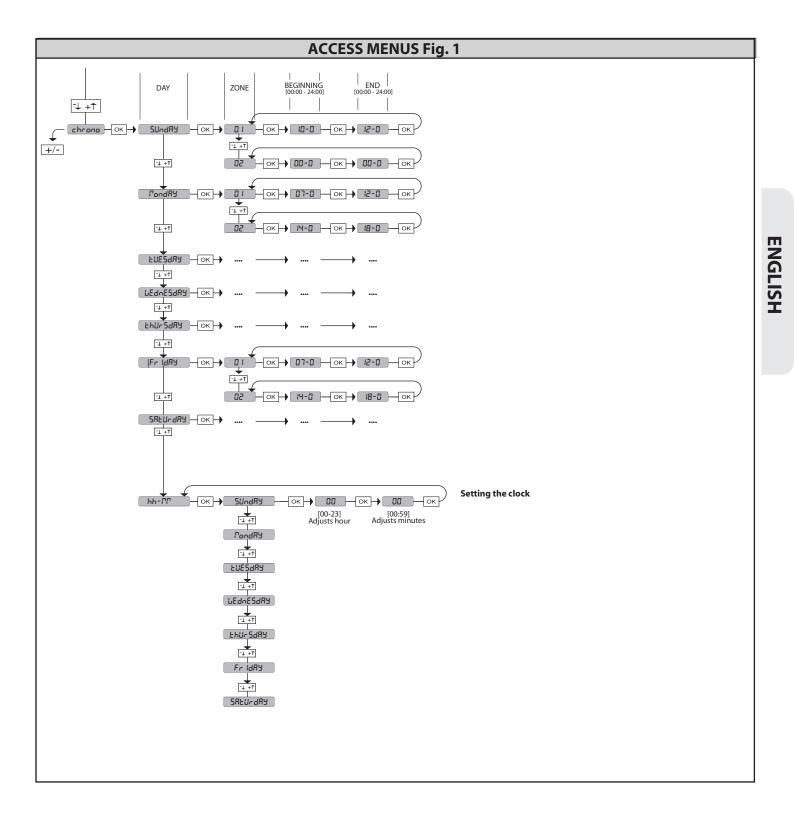
Values are programmable in 10 minutes' steps

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
00:00							
01:00							
02:00							
03:00							
04:00							
05:00							
06:00							
07:00							
08:00							
09:00							
10:00							
11:00							
12:00							
13:00							
14:00							
15:00							
16:00							
17:00							
18:00							
19:00							
20:00							
21:00							
22:00							
23:00							

	Monday	Tuesday	Wednesday	ednesday Thursday		Saturday	Sunday
	Beginning	Beginning	Beginning	Beginning	Beginning	Beginning	Beginning
Time band 1	07.00	07.00	06.00	07.00	07.00	10.00	10.00
	End	End	End	End	End	End	End
	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	Beginning	Beginning	Beginning	Beginning	Beginning	Beginning	Beginning
Time band 2	14.00	00.00	14.00	00.00	14.00	00.00	00.00
	End	End	End	End	End	End	End
	18.00	00.00	18.00	00.00	18.00	00.00	00.00

No scheduled time zone. It is left at 0





2) GENERAL INFORMATION The RIGEL 6 control panel comes with standard factory settings. Any change must be made using the programmer with built-in display or universal handheld programmer. The Control unit completely supports the EELINK protocol. Its main features are:

Its main features are:
- Check of 1 or 2 single-phase motors fitted with thermostat
- Control of 1 or 2 single phase motors
Note: 2 motors of the same type must be used.
- Opening/closing limit switch control inputs, separate for each motor
- Separate inputs for safety devices
- Time band management
- Integrated obstacle detection
- Motor pre-heating with integrated sensor reading
- Adjustable electrodynamic braking
- Approach speed slow-down
- 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 or replacement easier. It comes with a series of prewired jumpers to make the installer's job on site easier.

The jumpers concern terminals: 41-42, 41-43, 41-44, 41-45, 70-71, 70-72, 70-74, 76-77, 76-79, 81-82, 81-84. If the above-mentioned terminals are being used, remove the relevant jumpers.

TESTING

The **RIGEL 6** panel controls (checks) the run relays, triacs and safety devices (pho-tocells and edges), 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. **ATTENTIONI** if the leaf is installed in a public area or if an automatic operating mode is enabled, we recommend a pair of photocells is installed at a height of 5 cm together with another pair at a height of 40-50 cm. Automatic mode means any control not voluntarily activated by the user (example: TCA function chrono etc.) control not voluntarily activated by the user (example: TCA function, chrono, etc.)

3) TECHNICAL SPECIFICATIONS						
Power supply	220-230V 50/60Hz(*)					
Low voltage/mains insulation	> 2MOhm 500V	> 2MOhm 500V				
Dielectric rigidity	mains/LV 3750V~ for 1 m	ninute				
Accessories power supply	24V~ (demand max. 1A) 24V~safe					
AUX 0	NO 220-230V~(80W MAX) powered contact					
AUX 1	NO220-230V~ (80WMAX) powered contact	AUX0+ AUX1+				
AUX 2	NO contact (MAX 220-230V~ 80W) 80W MAX					

AUX 3	NO contact (Max 24V~)	10W MAX	
LOCK	Output for 12V sole- 10W MAX noid lock:		
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)

Use cycle	continuous	continuous	1 min. ON/ 2 min. OFF	1 min. ON/ 2 min. OFF
Operating temperature range	-20°C/+50°C	-20°C/+55°C	-20°C/+50°C	-20°C/+55°C
Maximum motor power 220-230V	2x375 W 1x750 W	2x250 W 1x500 W	2x650 W 1x750 W	2x500 W 1x750 W
Maximum motor power110-120V	2x320 W 1x390 W			

/!\ M1+M2+AUX0+AUX1+AUX2+AUX3+LOCK= 1300W MAX T=+50°C

Usable transmitter versions:

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

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.

	Terminal	Definition	Description							
er Iv	L	LINE								
Power supply	N	NEUTRAL	Single-phase power supply 220-230V 50/60Hz(*)							
e is	GND	EARTH								
	10	MOT1 RUN								
	11	MOT 1 COM	Connection motor 1. Time lag during closing.							
Motor	12	MOT1 RUN								
Ŵ	14	MOT2 RUN	Connection motor 2. Time lag during opening.							
	15	MOT 2 COM								
	16	MOT2 RUN	<u>/ال</u> Note: if " المعـَّام." = 1 do not connect any wires to terminals 14-15-16							
	20	AUX 1 - 220-230V~ POWERED CONTACT	AUX 0 configurable output - Default setting FLASHING LIGHT. MONOSTABLE RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTE-							
	21		NANCE / GATE STATUS / BISTABLE RADIO CHANNEL / TIMED RADIO CHANNEL. Refer to "AUX output configuration" table.							
	22	AUX 1 - 220-230V~ POWERED CONTACT	AUX 1 configurable output - Default setting ZONE LIGHT Output. MONOSTABLE RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTE-							
	23		NANCE / GATE STATUS / BISTABLE RADIO CHANNEL / TIMED RADIO CHANNEL. Refer to "AUX output configuration" table.							
Aux	24	AUX 2 - FREE CONTACT	AUX 2 configurable output - Default setting SCA GATE OPEN LIGHT Output. MONOSTABLE RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTENANCE / GATE STATUS / BISTABLE RADIO CHANNEL / TIMED RADIO CHANNEL. Refer to "AUX output configuration" table.							
	25	(N.O.)								
	26	AUX 3 - FREE CONTACT (N.O.)	AUX 3 configurable output - Default setting MONOSTABLE RADIO CHANNEL Output. MONOSTABLE RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTE- NANCE / GATE STATUS / BISTABLE RADIO CHANNEL / TIMED RADIO CHANNEL.							
	27		Refer to "AUX output configuration" table.							
	28	LOCK 12V	Type of lock logic= 0 - 12V solenoid latch output. Output activated with a pulse each time gate is opened or closed (MODEL ECB)							
	29		Type of lock logic= 1 - 12V magnetic lock output. Output activated when gate is closed or closing							
	40		Not used							
tch	41	+ REF SWE	Limit switch common							
Limit switch	42	SWC 1	Motor 1 closing limit switch SWC1 (N.C.).							
nit	43	SWO 1	Motor 1 opening limit switch SWO1 (N.C.).							
Ľ.	44	SWC 2	Motor 2 closing limit switch SWC2 (N.C.).							
	45	SWO 2	Motor 2 opening limit switch SWO2 (N.C.).							
ies	50	24V-	Accessories neuron supply output							
ccessorie power supply	51	24V+	Accessories power supply output.							
Accessories power supply	52	24 Vsafe+	Tested safety device power supply output (photocell transmitter and safety edge transmitter). Output active only during operating cycle.							

	Terminal	Definition	Description					
	60	Common	IC 1 and IC 2 inputs common					
	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.					
Commands	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.					
L L	63	Common	IC 3 and IC 4 inputs common					
Ŭ	64	IC 3	Configurable command input 3 (N.O.) - Default OPEN. START E / START I / OPEN / CLOSE / PED / TIMER / TIMER PED Refer to the "Command input configuration" table.					
	65	IC 4	Configurable command input 4 (N.O.) - Default CLOSE. 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.)					
	72	SAFE 1	If not used, leave jumper inserted. Configurable safety input 1 (N.C.) - Default PHOT. PHOT / PHOT TEST / PHOT OP TOP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR 8K2/ BAR OP / BAR OP TEST / BAR 8K2 OP/ BAR CL / BAR CL / BAR CL / BAR 8K2 CL. Refer to the "Safety input configuration" table.					
	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/ BAR OP / BAR OP TEST / BAR 8K2 OP/ BAR CL / BAR CL TEST / BAR 8K2 CL Refer to the "Safety input configuration" table.					
	75	FAULT 2	Test input for safety devices connected to SAFE 2.					
	76	Common	SAFE 3 and SAFE 4 inputs common					
Safety devices	77	SAFE 3	Configurable safety input 3 (N.C.) - Default PHOT OP. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR OP / BAR OP TEST / BAR CL / BAR CL TEST / Refer to the "Safety input configuration" table.					
y de	78	FAULT 3	Test input for safety devices connected to SAFE 3.					
Safet	79	SAFE 4	Configurable safety input 4 (N.C.) - Default PHOT CL. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR OP / BAR OP TEST / BAR CL / BAR CL TEST / Refer to the "Safety input configuration" table.					
	80	FAULT 4	Test input for safety devices connected to SAFE 4.					
	81	Common	SAFE 5 and SAFE 6 inputs common					
	82	SAFE 5	Configurable safety input 5 (N.C.) - Default PHOT. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR OP / BAR OP TEST / BAR CL / BAR CL TEST / Refer to the "Safety input configuration" table.					
	83	FAULT 5	Test input for safety devices connected to SAFE 5.					
	84	SAFE 6	Configurable safety input 6 (N.C.) - Default BAR. PHOT / PHOT TEST / PHOT OP / PHOT OP TEST / PHOT CL / PHOT CL TEST / BAR / BAR TEST / BAR OP / BAR OP TEST / BAR CL / BAR CL TEST / Refer to the "Safety input configuration" table.					
	85	FAULT 6	Test input for safety devices connected to SAFE 6.					
Antenna	Y	ANTENNA	Antenna input. Use an antenna tuned to 433MHz. Use RG58 coax cable to connect the Antenna and Receiver. Metal bodies close to the					
	#	SHIELD	antenna can interfere with radio reception. If the transmitter's range is limited, move the antenna to a more suitable position.					
NTC		NTC	Input for temperature sensor connection					

AUX output configuration
Aux logic= 0 - MONOSTABLE RADIO CHANNEL output. Contact stays closed for 1s when radio channel is activated.
Aux logic= 1 - SCA GATE OPEN LIGHToutput. Contact stays closed during opening and with leaf open, intermittent during closing, open with leaf closed.
Aux logic= 2 - COURTESY LIGHT command output. Contact stays on for 90 seconds after the last operation.
Aux logic= 3 - ZONE LIGHT command output. Contact stays closed for the full duration of operation.
Aux logic= 4 - STAIR LIGHT output. Contact stays closed for 1 second at start of operation.
Aux logic= 5 - GATE OPEN ALARM output. Contact stays closed if the leaf stays open for double the set TCA time.
Aux logic= 6 - FLASHING LIGHT output. Contact stays closed while leaves are operating.
Aux logic= 7 - SOLENOID LATCH output. Contact stays closed for 2 seconds each time gate is opened or closed.
Aux logic= 8 - MAGNETIC LOCK output. Contact stays closed when gate is closed and while it is closing.
Aux logic= 9 - MAINTENANCE output. Contact stays closed once the value set for the Maintenance parameter is reached, to report that maintenance is required.
Aux logic= 10 - FLASHING LIGHT AND MAINTENANCE output. Contact stays closed while leaves are operating. If the value set for the Maintenance parameter is reached, once the gate has finished moving and the leaf is closed, the contact closes for 10 sec. and opens for 5 sec. 4 times to report that maintenance is required.

AUX output configuration
Aux logic= 11 - Not available
Aux logic= 12 - Not available
Aux logics= 12 - Kot available Aux logics= 13 - GATE STATUS output Contact stays closed while gate is closed.
AUX logics= 14 - BISTABLE RADIO CHANNEL output The contact changes status (open-closed) when the radio channel is activated
AUX logics= 15 - TIMED RADIO CHANNEL output The contact remains closed for a programmable length of time when the radio channel is activated (output time) If, during this time, the button is pressed again, counting starts all over again.
If, during this time, the button is pressed again, counting starts all over again. Command input configuration
IC logic= 0 - Input configured as Start E. Operation according to 5٤ΕΡ-۵ט-5٤ΕΡ. אים, logic. External start for traffic light control.
IC logic= 0 - input configured as Start E. Operation according to $5EEP - by - 5EEP - \rho_{out}$. logic. External start for traffic light control.
IC logic= 1 - Input configured as Start Operation according to SEC 7 BD. logic. Internal start of traine light control. 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 5とЕР-ЬУ-5とЕР. 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) non tested (*). (fig.F, ref.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, ref.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) non tested (*). (fig.F, ref.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, ref.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 photo- cell beam stays broken.
SAFE logic= 4 - Input configured as Phot cl (photocell active during closing only) non tested (*). (fig.F, ref.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, move- ment 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, ref.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) non tested (*). (fig.F, ref.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, ref.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, ref.5). Input for resistive edge 8K2. The command reverses movement for 2 sec.
SAFE logic=9 Input configured as Bar op, safety edge with active inversion only while opening, if activated while closing, the automation stops (STOP) (Fig. F, ref. 3). Allows connecting devices not fitted with supplementary test contact. The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop. If not used, leave jumper inserted.
SAFE logic=10 Input configured as Bar op test, safety edge checked with active inversion only while opening, if activated while closing, the automation stops (STOP) (Fig. F, ref. 4). Activates testing safety edges when starting operation. The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop.
SAFE logic=11 Input configured as Bar 8k2 op, 8k2 safety edge with active inversion only while opening, if activated while closing, the automation stops (STOP) (Fig. F, ref. 5). The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop.
SAFE logic=12 Input configured as Bar cl, safety edge with active inversion only while closing, if activated while opening, the automation stops (STOP) (Fig. F, ref. 3). Allows connecting devices not fitted with supplementary test contact. The operation while closing causes the movement to be reversed for 2 seconds, the operation while opening causes the automation to stop. If not used, leave jumper inserted.
SAFE logic=13 Input configured as Bar cl test, safety edge checked with active inversion only while closing, if activated while opening, the automation stops (STOP) (Fig. F, ref. 4). Activates testing safety edges when starting operation. The operation while closing causes the movement to be reversed for 2 seconds, the operation while opening causes the automation to stop.
SAFE logic=14 Input configured as Bar 8k2 cl, safety edge with active inversion only while closing, if activated while opening, the automation stops (STOP) (Fig. F, ref. 5). The operation while closing causes the movement to be reversed for 2 seconds, the operation while opening causes the automation to stop.

(*) If "D" type devices are installed (as defined by EN12453), connect in unverified mode, foresee mandatory maintenance at least every six months.

6) SAFETY DEVICES

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

6.1) TESTED DEVICES Fig. F

6.2) CONNECTION OF 1 PAIR OF NON-TESTED PHOTOCELLS FIG. D

7) CALLING UP MENUS: FIG. 1

7.1) PARAMETERS MENU (PRc RC) (PARAMETERS TABLE "A")

7.2) LOGIC MENU (டல் டே) (LOGIC TABLE "B")

7.3) RADIO MENU (*r Rd ia*) (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.
 If a 4-channel remote control is used, keep one for the STOP function.

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

.5) LANGUAGE MENU (៤ គិតជ័ដគឺចំដ

7.5) LANGUAGE MENU (בהחטטחעב) Used to set the programmer's language on the display.

7.6) AUTOSET MENU (RUEoSEE)

- 7.6) AUTOSET MENU (Hild 2525)
 Autoset for motors with limit switches (Fig. E1):
 1 Place the leaves at the closing limit switch.
 2 Start an autoset from the relative menu, press the OK button start motor 1's opening manoeuvre.
 3 The display shows "M1.o".
 4 Wait for the opening limit switch to be triggered to finish motor 1's opening manoeuvre.
- Wait for the opening limit switch to be triggered to mish motor 12 opening manoeuvre. Motor 2 starts opening automatically. A displays "M2.o". Wait for the opening limit switch to be triggered to finish motor 2's opening manoeuvre, the display shows the message "CLOSE". Press the OK button to start motor 2's closing manoeuvre. A displays "M2.c". Wait for the closing limit switch to be triggered to finish motor 2's closing manoeuvre. 6 -
- 8 -
- manoeuvre.
- Motor 1 starts closing automatically. A displays "M1.c".
 10 Wait for the closing limit switch to be triggered to finish motor 1's closing manoeuvre.
- If the work time has been stored correctly, the display shows "OPEN".
 Press the OK button to start the second cycle and calculate the torque value required for the leaf/ves to move, the display shows "M1.o".
 Wait for the opening limit switch to be triggered to finish motor 1's opening monocurrent. 11
- Motor 2 starts opening automatically. A displays "M2.0"
- 14 Wait for the opening limit switch to be triggered to finish motor 2's opening manoeuvre, the display shows the message "CLOSE".
 15 Press the OK button to start motor 2's closing manoeuvre. A displays "M2.c".
 16 Wait for the closing limit switch to be triggered to finish motor 2's closing manoeuvre.
- manoeuvre. 17 Motor 1 starts closing automatically. A displays "M1.c". 18 Wait for the closing limit switch to be triggered to finish motor 1's closing manoeuvre.
- If the autoset has completed correctly, the display shows "OK", if autoset fails, the display shows the message "KO" and the operation must be repeated from phase 1. If motor 1 is set to active, the phases relative to motor 2 are not performed.

Autoset for motors with no limit switches (Fig. E2):

Place the leaves at the closing stops. start an autoset from the relative menu, pressing the OK button start motor ż-

- 4 -
- start an autoset from the relative menu, pressing the OK button start motor 1's opening manoeuvre. The display shows "M1.o". ress the OK button to finish motor 1's opening manoeuvre. A displays "M2.o". Motor 2 starts opening automatically. Press the OK button to finish motor 2's opening manoeuvre, the display shows "CLOSE". Press the OK button to start motor 2's closing manoeuvre. A displays "M2.c" Press the OK button to finish motor 2's closing manoeuvre. A displays "M2.c" Press the OK button to finish motor 2's closing manoeuvre. A displays "M1.c" Motor 1 starts closing automatically. 6 -7 -

- 10
- Motor 1 starts closing automatically. Press the OK button to finish motor 1's closing manoeuvre. If the work time has been stored correctly, the display shows "OPEN". Press the OK button to start the second cycle and calculate the torque value required for the leaf/ves to move, the display shows "M1.o". Wait for motor 1's work time to intervene to finish motor 1's opening ma-negure 11
- noeuvre
- 13 Motor 2 starts opening automatically. A displays "M2.o".
 14 Wait for Motor 2's work time to intervene to finish motor 2's opening mano-euvre, the display shows the message "CLOSE".
 15 Press the OK button to start motor 2's closing manoeuvre. A displays "M2.c"
 16 Wait for motor 2's work time to intervene to finish motor 2's closing mano-euvre.
- euvre.
- 17 Motor 1 starts closing automatically. A displays "M1.c" 18 Wait for motor 1's work time to intervene to finish motor 1's closing manoeuvre.
- 19 If the autoset has completed correctly, the display shows "OK", if autoset fails, the display shows the message "KO" and the operation must be repeated from phase 1.

If motor 1 is set to active, the phases relative to motor 2 are not performed

During this stage, it is important to avoid breaking the photocells' beams, causing the safety devices to intervene, and not to use the START, STOP, OPEN and CLOSE controls or the display. Once this operation is completed, the control unit will have automatically set the optimum parameters and work times. 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.

The impact forces must be limited with the use of active coasts accordance with EN12978

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 of the automated system.

7.7) INSTALLATION TEST PROCEDURE

- Apply pressure-sensitive or electro-sensitive protective devices (such as a safety edge)
- Run the AUTOSET cycle (*)
 Check the impact forces: if they fall within the limits. Skip to point 5 of the procedure, otherwise
 Allow the drive to move only in "Deadman" mode
- 5. Make sure all devices designed to detect obstacles within the system's operat-

(*) Before running the autoset function, make sure you have performed all the assembly and make-safe operations correctly, as set out in the installation warnings in the drive's manual and have set the opening/closing strength, slow-down and slow-down time parameters.

7.8) 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 most recent.

7.9) PASSWORD MENU

Used to set a password for the board's wireless programming via the U-link network. With "PROTECTION LEVEL" logic set to 1,2,3,4, the password is required to access the programming menus. After 10 consecutive failed attempts to log in, you will need to wait 3 minutes before trying again. During this time, whenever an attempt is made to log in, the display will read "BLOC". The default password is 1234.

7.10) CHRONO MENU Fig.J Allows setting the operation by time bands. Up to two daily time bands during which the gate remains open (from Monday to Sunday) can be set.

Within the time slot opening of the doors is performed that remain open until the end of the time slot.

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

9) CONNECTION WITH EXPANSION BOARDS AND UNIVERSAL HANDHELD PROGRAMMER. Refer to specific manual.

10) U-LINK OPTIONAL MODULES

Refer to the U-link instructions for the modules. The use of some models causes lowered radio capacity. Adjust the system using an appropriate antenna tuned to 433MHxz.

11) RESTORING FACTORY SETTINGS (Fig.I) WARNING: this operation will restore the control unit's factory settings and all transmitters stored in its memory will be deleted. WARNING! Incorrect settings can result in damage to property and injury to

WARNING! Incorrect settings can result in damage to property and injury to people and animals.
- Cut off power to the board (Fig.I ref.1)
- Open the Stop input and press the - and OK keys together (Fig.I ref.2)
- Switch on the board's power (Fig.I ref.3)
- The display will read RST; confirm within 3 sec. by pressing the OK key (Fig.I ref.4)
- Wait for the procedure to finish (Fig.I ref.5)
- Procedure finished (Fig.I ref.6)

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

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.

Impact forces can be reduced by using deformable edges.

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 - (PRr R())

Parameter	min.	max.	Default	Personal	Definition	Description
uor H. E. Not. I	3.0	180.0	60.0		Operation time motor 1 [s]	
uorH. L. Not.2	3.0	180.0	60.0		Operation time motor 2 [s]	Sets the value of motor 1 / 2 work time in seconds At the end of an autoset it is set with the actual motor work value
PRrt IRL oPEn InG	3	90	6		Partial opening M1 [s]	Time of partial opening following the activation of motor M1 PED pedestrian control
oPEn dELRY E INE	0	10	3		Motor 2 opening delay time [s]	Motor 2 opening delay time with respect to motor 1.
els dELAY E INE	0	25	3		Motor 1 closing delay time [s]	Motor 1 closing delay time with respect to motor 2.
SLou - doun E. Not. I	0	30	0		Slow-down time motor 1 [s]	Sets the approach slow-down time. The slow-down time is subtracted from the work time. NOTE: Use this function only if a limit switch is installed.
SLou - doun t. Not.2	0	30	0		Slow-down time motor 2 [s]	NOTE: Do not use with hydraulic motors. (***)
ŁcR	0	120	10		Automatic closing time [s]	Waiting time before automatic closing.
ErFLühtelrt	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.
OUEPUE E IRE	1	240	10		Activation time of the timed output [s]	Activation length of timed radio channel output in seconds
oPForcE	1	99	50		Leaf force during opening [%]	Force exerted by leaf/leaves during opening. Represents the percentage of force delivered at speed in comparison with the maximum value. WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). If necessary, install anti-crushing safety devices (**).
cLSForcE	1	99	50		Leaf force during closing [%]	Force exerted by leaf/leaves during closing. Represents the percentage of force delivered at speed in comparison with the maxi- mum value. WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). If necessary, install anti-crushing safety devices (**).
SLudForcE	1	99	50		Forza motori in rallentamento [%]	Force exerted by leaf / and slowdown. It represents the percentage of power supplied to slow down. WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). If necessary, install anti-crushing safety devices (**).
br RHE	0	99	0		Braking [%]	Set the braking value from 0% (min.) to 99% (max.) according to the gate weight and the mechanical demands involved.
ENEr. brRHE	0	99	60		Emergency braking [%]	Sets the value between 0% (min.) and 99% (max.) of emergency braking, that is performed by activating the safety controls present at the inputs configured as BAR safety edge.
PrEhERL.	0	99	30		Preheating [%]	Set the percentage value of the current from 0 (deactivated pre-heating) to 99% which can be made to pass through the motor windings to keep them at the right temperature. NOTE: the NTC temperature sensor must be connected The sensor must be placed and fixed in contact with the motor to detect the outside temperature
obSt.SEnS.	0	99	0		Obstacle sensitivity	It allows activating obstacle detection. The function is disabled when the parameter is set to 0, setting the value between 1 and the maximum value, obstacle sensitivity can be increased (max value = max sensitivity). It works only with the limit switches. ATTENTION: This obstacle detection function does not guarantee com- pliance with the safety regulations in force (*). To comply with the current safety regulations, install adequate anti-crushing safety devices (**). ATTENTION: The system detects the obstacle only if the leaf is stopped; no obstacles breaking the leaf without managing to stop it are detected. Detection takes place only if the leaf meeting the obstacle is moving at normal speed. The obstacle is not detected during slow-down. (***)
PR IntEnRoce	0	250	0		Programming number of operations for maintenance threshold [in hundreds]	Allows you to set a number of operations after which the need for maintenance will be reported on the AUX output configured as Maintenance or Flashing Light and Maintenance .

(*) In the European Union, apply standard EN 12453 for force limitations, and standard EN 12445 for measuring method. (**) The impact forces must be limited using active coasts comply with EN12978

(***) CAUTION: After a parameter change will need to run an autoset function if the "obstacle sensitivity" is active.

TABLE "B" - LOGIC MENU - (ໄດນ໌ ໄດ

Logic	Definition	Default	Cross out setting used	t Optional extras						
EcA	Automatic Closing	0	0	Logic not enabled						
<u> </u>	Time	0	1	Switches automatic closing on						
FRSE CLS.	Fast closing	0	0	Logic not enabled						
			1	Closes 3 seconds after the photocells are	e cleared before	waiting for t	the set TCA to el	apse.		
			0	Inputs configured as Start E, Start I, Ped operate with 4-step logic. step-by-step mov.						
			1	Inputs configured as Start E, Start I, Ped operate with 3-step logic. Pulse		2 STEP	3 STEP	4 STEP		
				during closing reverses movement.	CLOSED			OPENS		
SEEP-by-SEEP PouEPne	Step-by-step movement	0			DURING CLOSING	OPENS	OPENS	STOPS		
,			2	Inputs configured as Start E, Start I, Ped operate with 2-step logic. Move-	OPEN		CLOSES	CLOSES		
			-	ment reverses with each pulse.	DURING OPENING	CLOSES	STOP + TCA	STOP + TCA		
					AFTER STOP	OPENS	OPENS	OPENS		
			0	The flashing light comes on at the same	time as the mot	or(s) start	I	<u>, </u>		
PrE-RLRrP	Pre-alarm	0	1	The flashing light comes on approx. 3 se			tart			
			0	Pulse operation.	conds before the					
				Deadman mode.						
				Input 61 is configured as OPEN UP. Input 62 is configured as CLOSE UP.						
			1	Operation continues as long as the OPEN	N UP or CLOSE U	P keys are h	eld down.			
				WARNING: safety devices are n	ot enabled.					
hold-lo-rUn	Deadman	0		Emergency Deadman mode. Usually pul	se operation.					
				If the board fails the safety device tests (switched to Deadman mode, which will						
			2	Input 61 is configured as OPEN UP.	stay active until	the OPEN U	P OF CLOSE UP K	eys are released.		
				Input 62 is configured as CLOSE UP.						
WARNING: with the device set to E						Emergency Deadman mode, safety devices are not enabled.				
IbL oPEn	Block pulses during	0	0	Pulse from inputs configured as Start E, S						
.02 0, 2,,	opening		1	Pulse from inputs configured as Start E, S						
16L EcA	Block pulses during TCA	0	1	Pulse from inputs configured as Start E, S Pulse from inputs configured as Start E, S						
IBL cLoSE	Block pulses during	0	0	Pulse from inputs configured as Start E, S	Start I, Ped has e	ffect during	closing.			
	closing	0	1	Pulse from inputs configured as Start E, S	Start I, Ped has n	o effect dur	ing closing.			
	Hammer during		0	Logic not enabled Before opening completely, the gate pushes for approx. 2 seconds as it closes. This allows the sole						
rRP blob c.oP	opening	0	1	lock to be released more easily.						
	l			IMPORTANT - Do not use this function if suitable mechanical stops are not in place.						
	Hammer during		0	Logic not enabled Before closing completely, the gate push	es for approx ?	seconds as	it opens. This all	ows the solenoid		
rAP blob c.cl	closing	0	1	to be released more easily.			·			
			0	IMPORTANT - Do not use this function	it suitable mec	nanical sto	ps are not in pl	ace.		
			0	Logic not enabled If motors stay idle in fully open or fully cl	losed position fo	or more than	n one hour. thev	are switched on i		
bLoc PErS ISt	Stop maintenance	0		If motors stay idle in fully open or fully closed position for more than one hour, they are switched on in the direction of the stop for approx. 3 seconds. This operation is performed every hour.						
			1	NB: In hydraulic motors, this function ser to a drop in temperature during extende						
	l			IMPORTANT - Do not use this function						
			0	Movement is stopped only when the clo limit switch must be adjusted accurately	(Fig.G Ref.B).	ı trips: in thi	s case, the trippi	ng of the closing		
PrESS Suc	Closing limit switch	0		Use when there is a mechanical stop in c This function allows leaves to press again		cal stop witl	hout the Amper	ostop sensor inte		
11233 300	pressure		1	This function allows leaves to press against the mechanical stop without the Amperostop sensor inter- preting this as an obstacle.						
				Thus the rod continues its stroke for a few seconds after meeting the closing limit switch or as far as the mechanical stop. In this way, the leaves come to rest perfectly against the stop by allowing the closing						
				limit switches to trip slightly earlier (Fig.	G Ref.A).					
l Pot.on	1 Pot on 1 motor active 0		0	Both motors active (2 leaves).						
	l		1	Only motor 1 active (1 leaf).						
oPEn in othEr	Open in other direction	0	0	Standard operating mode (See Fig.G Ref. C).						
d IrEct.	urection		1	Opens in other direction to standard operating mode (See Fig. G Ref.D)						
	Configuration of		0	Input configured as Phot (photocell).						
SRFE I	safety input SAFE 1. 72	0	1	Input configured as Phot test (tested photocell).						
			2	Input configured as Phot op (photocell active during opening only).						

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Logic	Definition	Default	Cross out setting used	Optional extras		
5055 3	Configuration of		3	Input configured as Phot op test (tested photocell active during opening only).		
SRFE 2	safety input SAFE 2. 74	6	4	Input configured as Phot cl (photocell active during closing only).		
	Configuration of		5	Input configured as Phot cl test (tested photocell active during closing only).		
SRFE 3	safety input SAFE 3. 77	2	6	Input configured as Bar, safety edge.		
	Configuration of		7	Input configured as Bar, tested safety edge.		
SRFE 4	safety input SAFE 4.	4				
	79		8	Input configured as Bar 8k2 (Inactive on SAFE 3,4,5,6).		
SRFE 5	Configuration of safety input SAFE 4.	0	9	Input configured as Bar OP, safety edge with inversion active only while opening. If while closing, the movement stops.		
	79		10	Input configured as Bar OP TEST, safety edge tested with inversion active only while opening. If while closing, the movement stops.		
			11	Input configured as Bar OP 8k2, safety edge with inversion active only while opening. If while closing, the movement stops. (Inactive on SAFE 3,4,5,6).		
	Configuration of		12	Input configured as Bar CL, safety edge with inversion active only while closing. If while opening, the movement stops.		
SRFE 6	safety input SAFE 6. 84	6	13	Input configured as Bar CLTEST, safety edge tested with inversion active only while closing. If while opening, the movement stops.		
			14	Input configured as Bar CL 8k2, safety edge with inversion active only while closing. If while opening, the movement stops. (Inactive on SAFE 3,4,5,6).		
lc I	Configuration of command input IC 1.	0	0	Input configured as Start E.		
	61	0	1	Input configured as Start I.		
lc 2	Configuration of command input IC 2.	4	2	Input configured as Open.		
	62 Configuration of		3	Input configured as Close.		
lc 3	command input IC 3.	2	4	Input configured as Ped.		
	64 Configuration of		2	Input configured as Timer.		
1 <u>c</u> 4	command input IC 4. 65	mand input IC 4. 3 6 Input configured		Input configured as Timer Pedestrian.		
<i>(</i>)	Configuration of the		0	Radio control configured as START E.		
lch	1st radio channel command	0	1	Radio control configured as Start I. Radio control configured as Open.		
			3	Radio control configured as Open.		
	Configuration of the		4	Radio control configured as Ped		
Zch	2nd radio channel command	9	5	Radio control configured as STOP		
	command		6	Radio control configured as AUX0 **		
	Configuration of the		7	Radio control configured as AUX1 **		
3 ch	3rd radio channel	2	8	Radio control configured as AUX2 **		
	command		9	Radio control configured as AUX3 **		
4 ch	Configuration of the 4th radio channel	5	10	Radio control configured as EXPO1 **		
1 211	command	5	11	Radio control configured as EXPO2 **		
	Confirmation of		0	Output configured as monostable Radio Channel.		
RUH D	Configuration of AUX 0 output. 20-21	6	1	Output configured as SCA (gate open light).		
	-		2	Output configured as Courtesy Light command.		
	Configuration of	_	3	Output configured as Zone Light command.		
RUH I	AUX 1 output. 22-23	3	4	Output configured as Stair Light		
			5	Output configured as Alarm		
яин г	Configuration of AUX 2 output.	1	6 7	Output configured as Flashing light Output configured as Latch		
HUN C	24-25		8	Output configured as Laten Output configured as Magnetic lock		
			° 9	Output configured as Magnetic lock Output configured as Maintenance		
			10	Output configured as Maintenance Output configured as Flashing Light and Maintenance.		
<i>В</i> ИН Э	Configuration of		11	Not used		
	AUX 3 output.	0	12	Not used		
	26-37		13	Output configured as Gate Status		
			14	Output configured as Bistable Radio Channel		
			15	Output configured as timed Radio Channel		
	Type of lock.	2	0	Output configured as 12V solenoid latch.		
LocH	28-29	0	1	Output configured as 12V magnetic lock.		
5 0 / F / · · · · · · · ·		_	0	Receiver is configured for operation in rolling-code mode. Fixed-Code Clones are not accepted.		
F IHEd codE	Fixed code	0	1	Receiver is configured for operation in fixed-code mode. Fixed-Code Clones are accepted.		

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Logic	Definition	Default	Cross out setting used	Optional extras
ProtEct Ion LEuEL	Setting the protection level	0	0	 A - The password is not required to access the programming menus B - Enables wireless memorizing of transmitters. Operations in this mode are carried out near the control panel and do not require access: Press in sequence the hidden key and normal key (T1-T2-T3-T4) of a transmitter that has already been memorized in standard mode via the radio menu. Press within 10 sec. the hidden key and normal key (T1-T2-T3-T4) of a transmitter to be memorized. The receiver exits programming mode after 10 sec.: you can use this time to enter other new transmitters by repeating the previous step. C - Enables wireless automatic addition of clones. Enables clones generated with the universal programmer and programmed Replays to be added to the receiver's memory. D - Enables wireless automatic addition of replays. Enables programmed Replays to be added to the receiver's memory. E - The board's parameters can be edited via the U-link network
			1	A - You are prompted to enter the password to access the programming menus The default password is 1234. No change in behaviour of functions B - C - D - E from 0 logic setting
			2	A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wireless automatic addition of clones is disabled. No change in behaviour of functions D - E from 0 logic setting
			3	 A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. D - Wireless automatic addition of Replays is disabled. No change in behaviour of functions C - E from 0 logic setting
			4	 A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wireless automatic addition of clones is disabled. D - Wireless automatic addition of Replays is disabled. E - The option of editing the board's parameters via the U-link network is disabled. Transmitters are memorized only using the relevant Radio menu. IMPORTANT: This high level of security stops unwanted clones from gaining access and also stops radio interference, if any.
	Serial mode		0	Standard SLAVE: board receives and communicates commands/diagnostics/etc.
SEr IRL PodE	(Identifies how board is configured in a BFT network connection).	0	1	Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.
RddrESS	Address	0	[]	Identifies board address from 0 to119 in a local BFT network connection. (see U-LINK OPTIONAL MODULES section)
	The second se	0	0	Logic not enabled
chrono	Time bands		1	Activates the time bands configured as timer Activates the time bands configured as pedestrian timer
			0	Input configured as Start E command.
			1	Input configured as Start L command.
		1	2	Input configured as Open command.
			3	Input configured as Close command.
	Configuration of EXPI1 input on input-output expan- sion board. 1-2		4	Input configured as Ped command.
			5	Input configured as Timer command.
			6	Input configured as Timer Pedestrian command.
			7	Input configured as Phot (photocell) safety. 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).
EHPII			11	Input configured as safety Bar OP, safety edge with inversion active only while opening, if while closing the movement stops.
			12	Input configured as safety Bar CL, safety edge with inversion active only while closing, if while opening
				the movement stops. Input configured as Phot test safety, tested photocell. Input 3 (EXPI2) on input/output expansion board is
			13	switched automatically to safety device test input, EXPFAULT1. Input configured as Phot op test safety, tested photocell active only while opening. Input 3 (EXPI2) on input/
			14	output expansion board is switched automatically to safety device test input, EXPFAULT1 Input configured as Phot cl test safety, tested photocell active only while closing. Input 3 (EXPI2) on input/
			15	output expansion board is switched automatically to safety device test input, EXPFAULT1
			16	Input configured as Bar safety, tested safety edge. Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
			17	Input configured as safety Bar OP test, safety edge with inversion active only while opening, if while closing the movement stops. Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.
			18	Input configured as safety Bar CL test, safety edge with inversion active only while closing, if while opening the movement stops. Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1.

Logic	Definition	Default	Cross out setting used	Optional extras
ЕНР 12	Configuration of EXPI2 input on input-output expansion board. 1-3	0	0	Input configured as Start E command.
			1	Input configured as Start I command.
			2	Input configured as Open command.
			3	Input configured as Close command.
			4	Input configured as Ped command.
			5	Input configured as Timer command.
			6	Input configured as Timer Pedestrian command.
			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).
			11	Input configured as safety Bar OP, safety edge with inversion active only while opening, if while closing the movement stops.
			12	Input configured as safety Bar CL, safety edge with inversion active only while closing, if while opening the movement stops.
		11	0	Output configured as monostable Radio Channel.
	Configuration of		1	Output configured as SCA (gate open light).
5.40 A	EXPO2 output on input-output expansion board 4-5		2	Output configured as Courtesy Light command.
EHPo I			3	Output configured as Zone Light command.
			4	Output configured as Stair Light.
			5	Output configured as Alarm.
	Configuration of EXPO2 output on input-output expansion board 6-7	11	6	Output configured as Flashing light.
			7	Output configured as Latch.
			8	Output configured as Magnetic lock.
			9	Output configured as Maintenance.
EHPo2			10	Output configured as Flashing Light and Maintenance.
chroc			11	Output configured as Traffic Light control with TLB board.
			12	Not used
			13	Output configured as Gate Status
			14	Output configured as Bistable Radio Channel
			15	Output configured as timed Radio Channel
ErRFF Ic L IGhE PrEFLRSh InG	Traffic light pre- flashing	0	0	Pre-flashing switched off.
			1	Red lights flash, for 3 seconds, at start of operation.
ErREE In L. IGHE			0	Red lights off when gate closed.
rEd LAPP ALLAYS on		0	1	Red lights on when gate closed.

* Only active on FW > 1.12

Radio channel control configuration
CH logic= 0 - Control configured as Start E. Operation according to 5٤٤٩-٤٤٢ ، معالي logic. External start for traffic light control.
CH logic= 1 - Control configured as Start I. Operation according to 5٤٤٣-٢٢ אים logic. Internal start for traffic light control.
CH logic= 2 - Control configured as Open. The command causes the leaves to open.
CH logic= 3 - Control configured as Closed. The command causes the leaves to close.
CH logic= 4 - Control configured as Ped. The command causes the leaf to open to the pedestrian (partial) opening position. Operation according to 5とEP-ЬУ-5とEP. logic
Logica CH= 5- Control configured as STOP. The command performs a STOP
CH logic= 6 - Control configured as AUX0. (**) The control activates the AUX0 output
CH logic= 7 - Control configured as AUX1. (**) The control activates the AUX1 output
CH logic= 8 -Control configured as AUX2. (**) The control activates the AUX2 output
CH logic= 9 - Control configured as AUX3. (**) The control activates the AUX3 output
CH logic= 10 - Control configured as EXPO1. (**) The control activates the EXPO1 output
CH logic= 11 - Control configured as EXPO2. (**) The control activates the EXPO2 output

(**) Active only if the output is configured as Monostable Radio Channel, Courtesy Light, Zone Light, Stair Light, Bistable Radio Channel or Timed Radio Channel.

TABLE "C" - RADIO MENU (r Rd io)

Logic	Description	
Rdd Ich	Add 1ch Key associates the desired key with the 1nd radio channel command.	
Rdd Zch	Add 2ch Key associates the desired key with the 2nd radio channel command.	
Rdd 3ch	Add 3ch Key associates the desired key with the 3nd radio channel command.	
Rdd Ych	Add 4ch Key associates the desired key with the 4nd radio channel command.	
ErRSE 64	Erase List WARNING! Erases all memorized transmitters from the receiver's memory.	
ErRSE I	Eliminates individual radio control Removes a radio control (if clone or replay is disabled) To select the radio control to be deleted, enter the position or press a button on the radio control to be deleted (the position is displayed)	
cod rH	Read receiver code Displays receiver code required for cloning transmitters.	