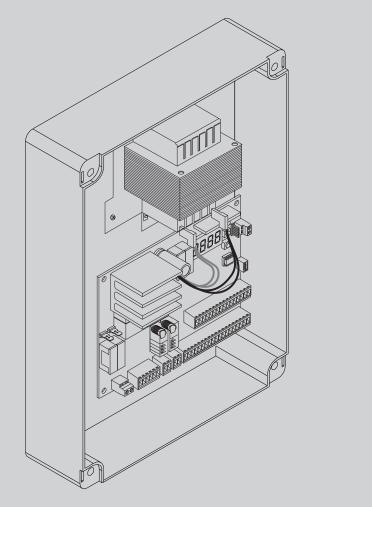




**CONTROL PANEL** 







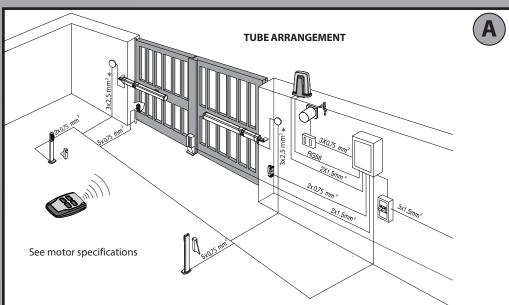


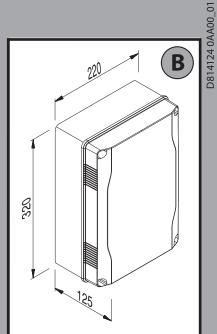


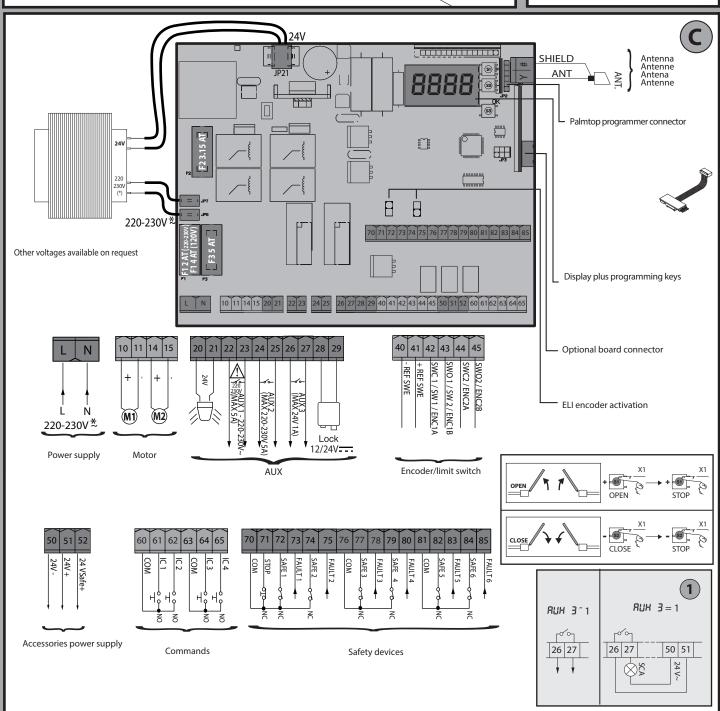


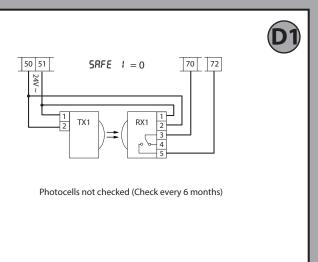


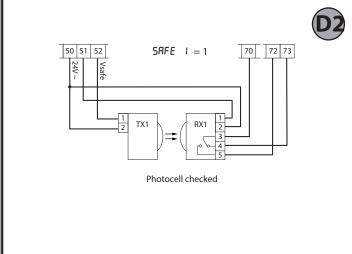
## **QUICK INSTALLATION**











### **ENGLISH**

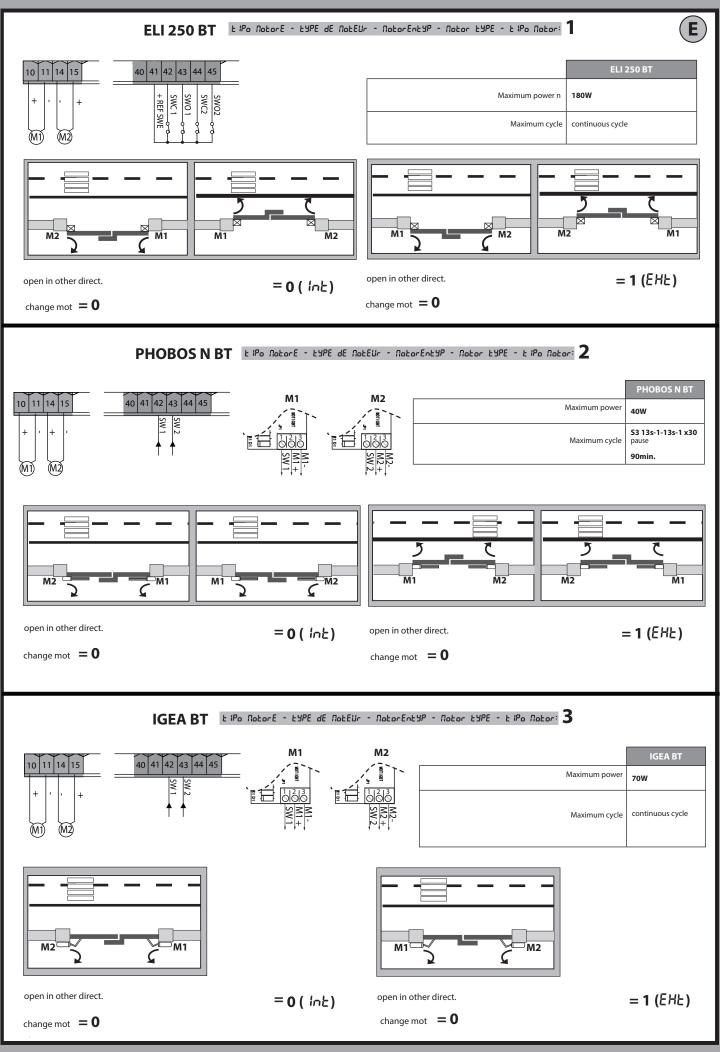
### IT IS NECESSARY TO FOLLOW THIS SEQUENCE OF ADJUSTMENTS:

D8141240AA00\_01

- 1 Adjusting the limit switches2 Autoset3 Programming remote controls4 Setting of parameters/logic, where necessary

After each adjustment of the end stop position a new autoset is required. After each modification of the motor type, a new autoset must be carried out

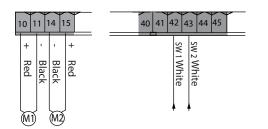
If the simplified menu is used:
- In GIUNO ULTRA BT A 20 - GIUNO ULTRA BT A 50 - E5 BT A18 - E5 BT A12 motors: phase 1 (end stop adjustment) is included in the simplified menu.
- In other motors: phase 1 (end stop adjustment) must be carried out before activating the simplified menu

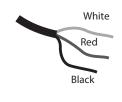




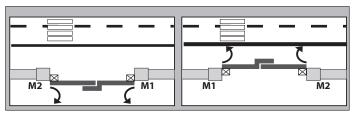
ElPo PotorE - EYPE dE PotEUr - PotorEntYP - Potor EYPE - ElPo Potor:

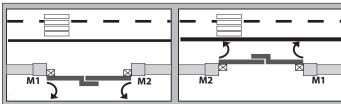
## SUBBT | LIPO POLOTE - LYPE dE POLEUr - POLOTENLYP - POLOT LYPE - LIPO POLOT: 6





	SUB BT
Maximum power	90W
Maximum cycle	<b>S3 17s-1-17s-1 x21</b> pause <b>90 min.</b>
LEAF MAX	400 kg
LLAT WIAX	2 m
TYPE OF USE - SEMI-INTENSIVE	Semi-intensive





open in other direct.

change mot = 0

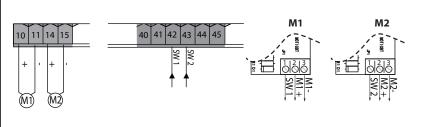
= 0 ( int)

open in other direct.

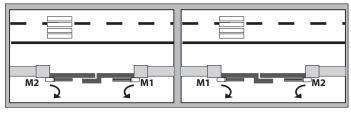
change mot = 0

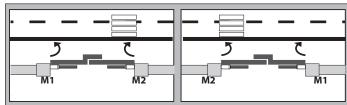
= 1 (EHE)

# PHOBOS BT A / KUSTOS BT A | E IPO ROLORE - EMPE DE ROLEUR - ROLORENEMP - ROLOR EMPE - E IPO ROLORE 7



	PHOBOS BT A	KUSTOS BT A
Maximum power -	40W	40W
Maximum cycle	<b>S3 13s-1-13s-1 x30</b> pause <b>90min.</b>	<b>S3 13s-1-13s-1 x30</b> pause <b>90min.</b>





open in other direct.

= 0 (lnt)

open in other direct.

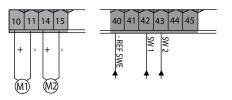
= 1 (EXE)

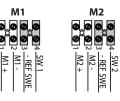
change mot = 0

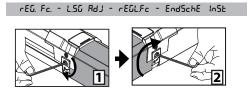
change mot = 0

## GIUNO ULTRA | E IPO POLORE - EMPE DE POLEUR - POLORENEMP - POLOR EMPE - E IPO POLORE 8

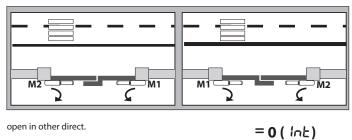


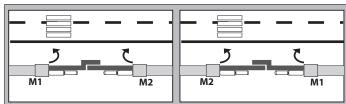






	GIUNO ULTRA BT A 20	GIUNO ULTRA BT A 50
Maximum power	90W	90W
Maximum cycle	<b>S3 10s-5-14s-5 x40</b> - pause <b>90 min.</b>	<b>S3 10s-5-14s-5 x40</b> pause <b>90 min.</b>
LEAF MAX	150 kg	150 - 400 kg
LEAFWIAA	2 m	5 - 2 m
TYPE OF USE - SEMI-INTENSIVE	Semi-intensive	





open in other direct.

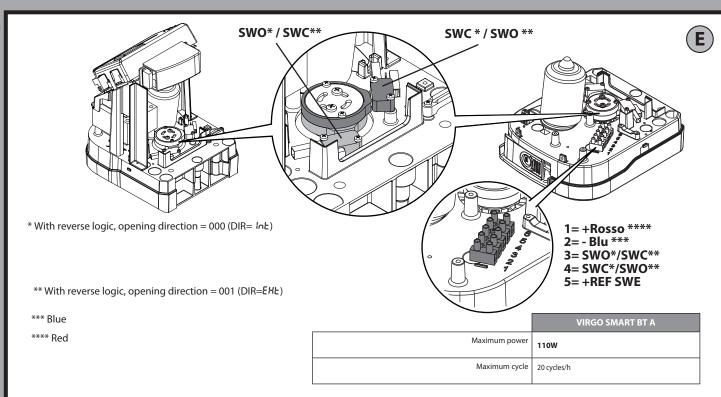
change mot = 0

open in other direct.

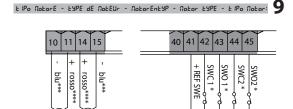
change mot / = 0

= 1 (EHE)

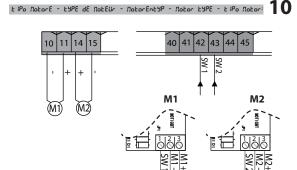
**ATTENTION:** with actuators with integrated locks, the permanently active slowdown to a value higher than 5 is mandatory.

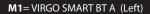


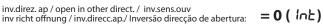


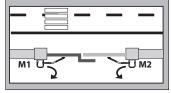






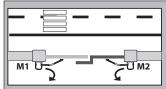






inv.mot / change mot / inv.mot mot.tausch / inv.mot / inv.mot = **0** 

open in other direct.

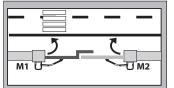


inv.mot / change mot / inv.mot mot.tausch / inv.mot / inv.mot = 1

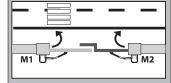
### M2= VIRGO SMART BT A SQ (Right)

M2= VIRGO SMART BT A SQ (Left)

inv.direz. ap / open in other direct. / inv.sens.ouv inv richt offnung / inv.direcc.ap./ Inversão direcção de abertura : = 1 (EHE)



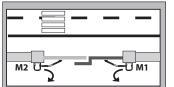
inv.mot / change mot / inv.mot mot.tausch / inv.mot / inv.mot = **0** 



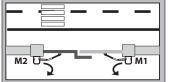
inv.mot / change mot / inv.mot mot.tausch / inv.mot / inv.mot = 1

### M1= VIRGO SMART BT A (Right)

## = 1 (EXL)

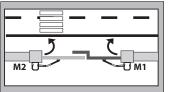


inv.mot / change mot / inv.mot mot.tausch / inv.mot / inv.mot = **0** 

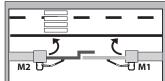


inv.mot / change mot / inv.mot
mot.tausch / inv.mot / inv.mot

## open in other direct.



inv.mot / change mot / inv.mot mot.tausch / inv.mot / inv.mot = **0** 



= 0 (lnt)

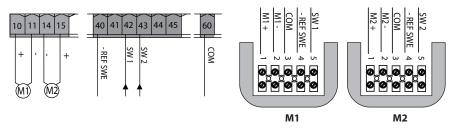
inv.mot / change mot / inv.mot
mot.tausch / inv.mot / inv.mot

**ATTENTION:** with actuators with integrated locks, the permanently active slowdown to a value higher than 5 is mandatory.

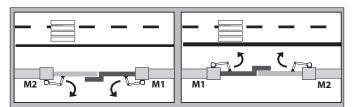


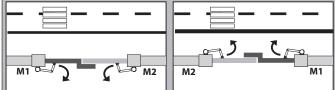
E5 BT A18 | E1Po NotorE - EYPE dE NotEUr - NotorEnEYP - Notor EYPE - E1Po Notor: 11 E5 BT A12 E IPO NOTORE - EYPE DE NOTEUR - NOTORENTYP - NOTOR EYPE - E IPO NOTORE

Select the correct



	E5 BT A18	E5 BT A12
Maximum power	40W	40W
Maximum cycle	20 cycles/h	100 cycles/h
LEAF MAX	see the motor's manual	see the table below
Maximum cable length	30m	30m





open in other direct.

= 0 ( lnb)

open in other direct.

= 1 (EHL)

change mot = 0

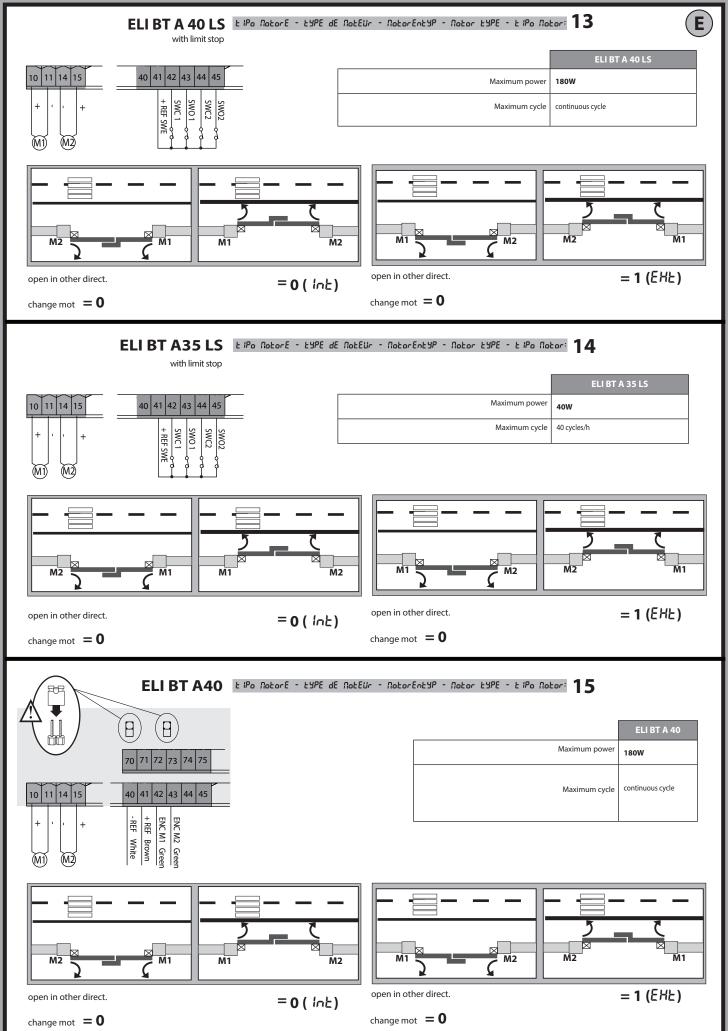
change mot = **0** 

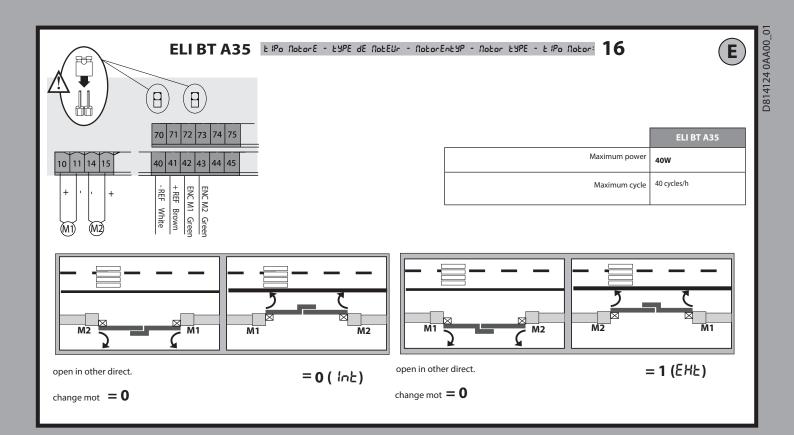
### **E5 BT A12**

ON pedestrian gates, adjust the speed so as to limit the energy of the leaf within a maximum value of 1.69 Joule (as required by the EN16005 regulation). Use the table to determine the minimum closing times between 90° and 10°.

Table with the leaf manoeuvre minimum times T								
Leaf width (mm)	Leaf weight (kg) P							
	50	60	70	80	90			
750 mm	3,0 s	3,0 s	3,0 s	3,0 s	3,5 s			
850 mm	3,0 s	3,0 s	3,5 s	3,5 s	4,0 s			
1000 mm	3,5 s	3,5 s	4,0 s	4,0 s	4,5 s			
1200 mm	1200 mm 4,0 s 4,5 s 4,5 s 5,0 s 5,5 s							

The approaching phase (from 10° to the limit switch position) must take place in at least 1.5 s. **Example:** if the leaf weighs 80 kg and has a width of 1000 mm, adjust the manoeuvre speed from 90° and 10° in at least 4.0 s. For intermediate values, use the higher value: if the leaf weighs 75 kg consider a value of 80 kg, if its width is 1100 mm use a value of 1200 mm. **IMPORTANT: Low-energy operation** is not considered a proper safety measure if the leaf is used by elderly, invalid, disabled people and children. In this case, provide additional safety measures, according to the provisions of the legislation in force and your local on-site risk assessment.





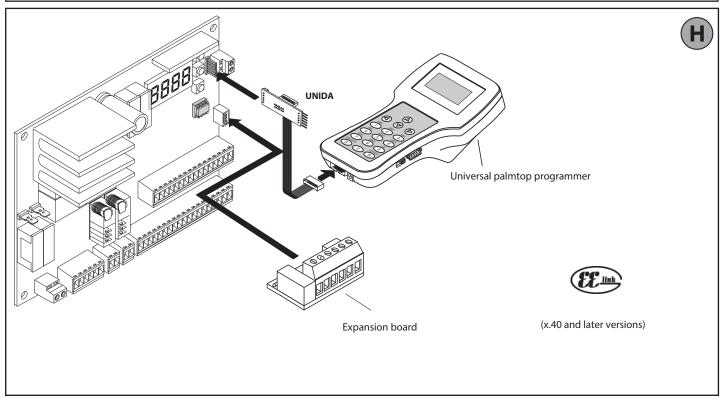
OK

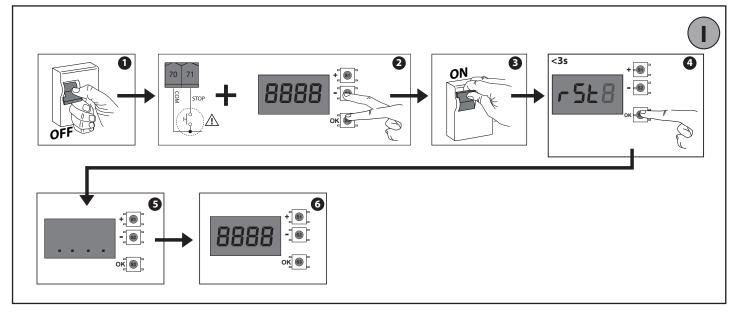
D814124 0AA00\_01

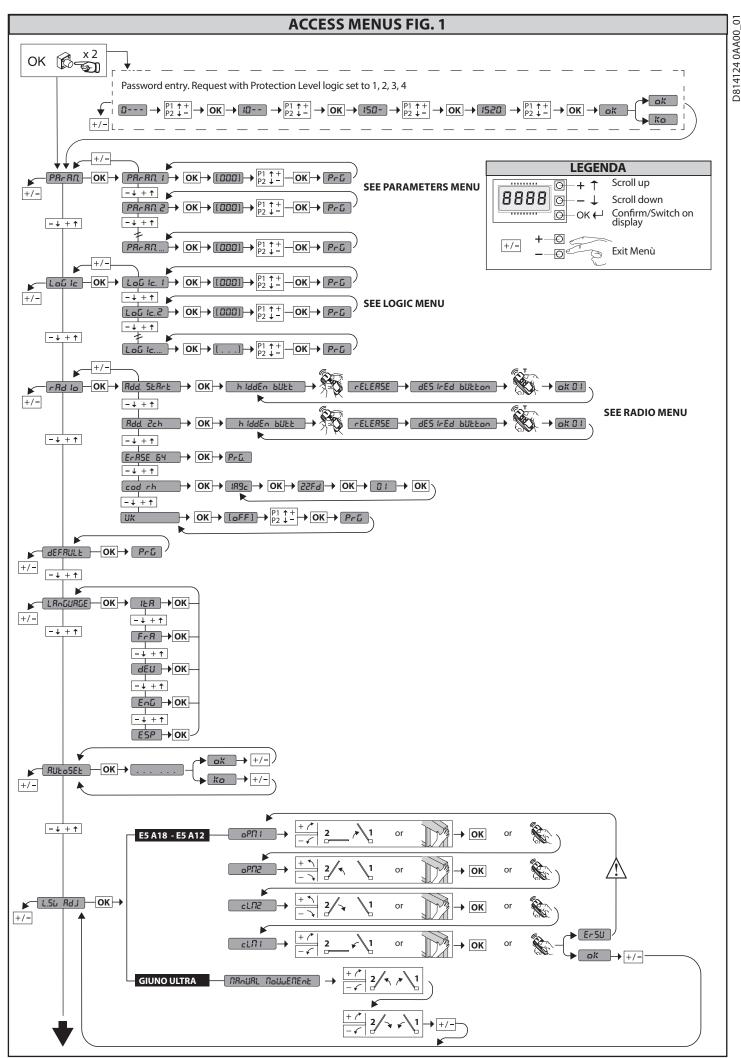
End

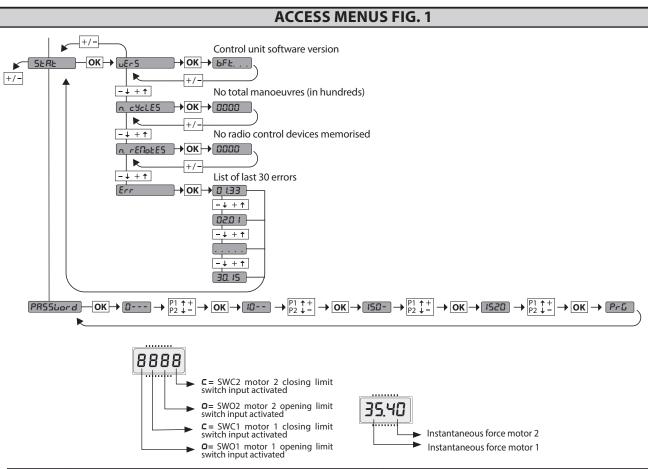
OK











Diagnostics		
code	DESCRIPTION	NOTES
SERE	START E external start input activated	
Str 1	START I internal start input activated	
oPEn	OPEN input activated	
cL5	CLOSE input activated	
PEd	PED pedestrian input activated	
F ILE	TIMER input activated	
StoP	STOP input activated  Activation of PHOT photocell input or, if configured as verified photocell, Activation	
Phot	of the associated FAULT input	
PhoP	Activation of PHOT OP opening photocell input or, if configured as active verified photocell only when opening, Activation of the associated FAULT input	
PhcL	Activation of PHOT CL closing photocell input or, if configured as active verified photocell only when closing, Activation of the associated FAULT input	
bAr	Activation of BAR safety edge input or, if configured as verified safety edge, Activation of the associated FAULT input	
bRro	Activation of BAR safety edge input with ACTIVE reversal ONLY WHILE OPENING, or, if configured as verified safety edge active only while opening, Activation of the associated FAULT input	
bArc	Activation of BAR safety edge input with ACTIVE reversal ONLY WHILE CLOSING, or, if configured as verified safety edge active only while closing, Activation of the associated FAULT input	
SEŁ	The board is standing by to perform a complete opening-closing cycle uninter- rupted by intermediate stops in order to acquire the torque required for movement. WARNING! Obstacle detection not active	
ErO1	Photocell test failed	Check photocell connection and/or logic settings
Er02	Safety edge test failed	Check safety edge connection and/or logic settings
Er03	Opening photocell test failed	Check photocell connection and/or parameter/logic setting
Er04	Closing photocell test failed	Check photocell connection and/or parameter/logic setting
Er06	8k2 safety edge test failed	Check safety edge connection and/or parameter/logic settings
Er07	Opening safety edge test failed	Check safety edge connection and/or parameter/logic settings
Er08	Closing safety edge test failed	Check safety edge connection and/or parameter/logic settings
Er IH*	Board hardware test error	- Check connections to motor - Hardware problems with board (contact technical assistance)
Er2H*	Encoder error	- Motor or encoder signal power cables inverted/disconnected or incorrect programming (see Fig. E) - Actuator movement is too slow or stopped with respect to programmed operation.
Er 3H*	Reverse due to obstacle - Amperostop	Check fo r obstacles in path
Er4H*	Thermal cutout	Allow automated device to cool
Er5H*	Communication error with remote devices	Check connection with serial-connected accessory devices and/or expansion boards
Er70, Er71 Er74, Er75	Internal system supervision control error.	Try switching the board off and back on again. If the problem persists, contact the technical assistance department.
Er 72	Consistency error of the control unit's parameters (Logics and Parameters)	Pressing OK the detected settings are confirmed. The board will keep on working with the detected settings.  \( \triangle \) The board settings must be checked (Parameters and Logics)
Er 73	D-track parameter error	Pressing OK, the board will keep on working with D-track as a default.  An autoset is required
ErSb	Error during limit switch adjustment Only for E5 BT A18 / E5 BT A12	Motor or encoder signal power cables inverted/disconnected or incorrect programming, (see Fig. E)
ErF3	Error in the configuration of the logics (SAFE inputs, motor type)	Check that the SAFE logic or motor type configuration is correct.
ErF9	Solenoid lock output overload	- Check lock connections - Unsuitable lock
	*H= 0, 1,, 9, A, B, C, D, E, F	

### 2) GENERAL INFORMATION

The **THALIA P** 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:

- 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, 76-77, 76-79, 81-82, 81-84. If the above-mentioned terminals are being used, remove the relevant jumpers.

The THALIA P 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	220-230V 50/60Hz(*)				
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	240W + 240W (24V; max. 50°C)
Accessories power supply	24V~ (demand max. 1A) 24V~safe
AUX 0	NO 24Vpowered contact (max.1A)
AUX 1	NO 220-230V~ powered contact (max.5A)
AUX 2	NO contact (220-230V~/max.5A)
AUX 3	NO contact (24V~/max.1A)
LOCK	Output for 12/24V <del></del> solenoid lock: Solenoid latch (max. 30 W) Magnetic (max. 15 W)
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 ((ER-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.

			All connecting cables must be kept far enough away from the dissipater.			
	Terminal	Definition	Description			
	L	LINE	Single-phase power supply 220-230V 50/60Hz(*)			
, lq	N	NEUTRAL	. 3. p p. p			
Power supply	JP5 JP7	TRANSF PRIM	ransformer primary winding connection, 220-230V.			
Роме	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 -	Check connections shown in Fig.E			
Mo	14	MOT2+	Connection motor 2. Time lag during opening.			
	15	MOT2 -	Check connections shown in Fig.E			
	20	AUX 0 - 24V POWERED CONTACT	AUX 0 configurable output - Default setting FLASHING LIGHT. 2ND RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN			
	21	(N.O.) (MAX. 1A)	ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTENANCE. Refer to "AUX output configuration" table.			
	22	AUX 1 - 220-230V~ POWERED	AUX 1 configurable output - Default setting ZONE LIGHT Output.			
Aux	CONTACT 2NI	2ND RADIO CHANNEL/ SCA GATE OPEN LIĞHT/ COURTESY LIĞHT/ ZONE LIGHT/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK. Refer to "AUX output configuration" table.				
∢	24	AUX 2 - FREE CONTACT (N.O.)	AUX 2 configurable output - Default setting SCA GATE OPEN LIGHT Output. 2ND RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK.			
	25	(Max. 220-230V 5A)	Refer to "AUX output configuration" table.			
	26	AUX 3 - FREE CONTACT (N.O.) (Max. 24V 1A)	AUX 3 configurable output - Default setting 2ND RADIO CHANNEL Output. 2ND RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK. Refer to "AUX output configuration" table.			
	2/	(Max. 24V 17t)	Type of lock logic= 0 - 12V= solenoid latch output (max. 30W). Output activated with a pulse each time gate is opened.			
	28		Type of lock logic= 1 - 12V anguetic lock output (max. 15W). Output activated when gate is closed.			
	29	LOCK 12V/24 ===	Type of lock logic= 2 - 24V== magnetic lock output (max. 15W). Output activated with a pulse each time gate is opened.  Type of lock logic= 3 - 24V== solenoid latch output (max. 30W). Output activated with a pulse each time gate is opened.  Type of lock logic= 3 - 24V== magnetic lock output (max. 15W). Output activated when gate is closed.			
_ <	41	+ REF SWE	Limit switch common			
h fo	42	SWC 1	Motor 1 closing limit switch SWC1 (N.C.).			
vitcl S50 E MAR A35 A40 vires	43	SWO 1	Motor 1 opening limit switch SWO1 (N.C.).			
nit sv ELI 2 50 SI LI BT LI BT 5 w	44	SWC 2	Motor 2 closing limit switch SWC2 (N.C.).			
Limit switch for ELI 250 BT VIRGO SMART BT A ELI BT A35 LS ELI BT A40 LS 5 wires	45	SWO 2	Motor 2 opening limit switch SWO2 (N.C.).			
	42	SW 1	Limit switch control motor 1. For actuators with single-wire limit switch control.			
Limit switch for PHOBOS N BT - IGEA BT SUB BT PHOBOS BT A - KUSTOS BT A - KUSTOS BT A - VIRGO SMART BT / 3 wires	43	SW 2	Limit switch control motor 2. For actuators with single-wire limit switch control.			

	Terminal	Definition	Description			
or . A20 . A50	40	- REF SWE	Limit switch common			
Limit switch for GIUNO ULTRA BT A GIUNO ULTRA BT A ES BT A18 ES BT A12	42	SW 1	Limit switch control motor 1.			
Limit GIUNO U GIUNO U ES	43	SW 2	Limit switch control motor 2.			
<u> </u>	40	- REF SWE	Encoder power supply, white cable			
ch fc 35 40	41	+ REF SWE	Encoder power supply, brown cable			
it switch for LI BT A35 LI BT A40	42	ENC M1	Engine 1 encoder signal, green cable  Close the jumper JP30			
Limit s ELI ELI	43	ENC M2	Engine 2 encoder signal, green cable  ! Close the jumper JP31			
ies	50	24V-	Accessories power supply output.			
ssor	51	24V+				
Accessories power supply	52	24 Vsafe+	Tested safety device power supply output (photocell transmitter and safety edge transmitter). Output active only during operating cycle.			
	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.			
omr	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. ITART 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.			
	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 / BAR OP / BAR OP TEST / BAR 8K2 OP / BAR CL / BAR CL TEST / 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.			
aty o	78	FAULT 3	Test input for safety devices connected to SAFE 3.			
Saf	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 an-			
Ante	#	SHIELD	tenna can interfere with radio reception. If the transmitter's range is limited, move the antenna to a more suitable position.			

AUX output configuration					
Aux logic= 0 - 2ND RADIO CHANNEL output. Contact stays closed for 1s when 2nd 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.

Aux logic= 8 - MAGNETIC LOCK output.

Contact stays closed while gate is closed

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

### **Command input configuration**

IC logic= 0 - Input configured as Start E. Operation according to 5ŁEP-by-5ŁEP Pou. logic. External start for traffic light control.

IC logic= 1 - Input configured as Start I. Operation according to 5とEP-by-5とEP アロル. 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.

IC logic= 4 - Input configured as Ped.

The command causes the leaf to open to the pedestrian (partial) opening position. Operation according to 5EEP-by-5EEP, 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 photocell 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, 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, 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 cI 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) 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-CHECKED PHOTOCELLS FIG. D1
- 7.3) CONNECTION OF 1 PAIR OF CHECKED PHOTOCELLS FIG. D2
- 8) CALLING UP MENUS: FIG. 1
- 8.1) PARAMETERS MENU (PRc RG) (PARAMETERS TABLE "A")
- 8.2) LOGIC MENU (ಓoū ែ) (LOGIC TABLE "B")

8.3) RADIO MENU (rAd lo) (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 (LRAGURGE)

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

### 8.6) AUTOSET MENU (RUŁoSEŁ)

6) AUTOSET MENU (Ril-o5EŁ)
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.

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.

Impact forces can be reduced by using deformable edges.

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.

- 8.7) INSTALLATION TEST PROCEDURE
  1. Run the AUTOSET cycle (\*)
  2. Check the impact forces: if they fall within the limits (\*\*) skip to point 10 of the procedure, otherwise
- Where necessary, adjust the speed and sensitivity (force) parameters: see parameters

0

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table.
4. Check the impact forces again: if they fall within the limits (\*\*) skip to point 10 of the

procedure, otherwise

5. Apply a shock absorber profile

6. Check the impact forces again: if they fall within the limits (\*\*) skip to point 10 of the

7. Apply pressure-sensitive or electro-sensitive protective devices (such as a safety edge) (\*\*)

Check the impact forces again: if they fall within the limits (\*\*) skip to point 10 of the 9. Allow the drive to move only in "Deadman" mode
10. Make sure all devices designed to detect obstacles within the system's operating range

(\*\*) Based on the risk analysis, you may find it necessary to apply sensitive protective devices anyway

### 8.8) LIMIT STOP ADJUSTMENT MENU (- Eū. Fc)

Used to adjust the limit stops for motors equipped with encoder; moreover, for motors equipped with independent limit stop wiring harness allows the correct positioning of the leaf for the subsequent limit stop adjustment. For motors not specified, the menu is not active and the message" unavailable" is shown as the disclary.

NOTE: these manoeuvres are performed in person preset mode, at slow speed, without the intervention of the safety devices.

**8.8.1) GIUNO ULTRA BT A20, GIUNO ULTRA BT A50** Using the "+/-" buttons on the display, bring the leaf in the desired position. To adjust the limit stops, refer to the settings for limit stop adjustment provided in the GIUNO ULTRA motor manual.

**8.8.2) E5 BT A12, E5 BT A18**Using the "+/-" buttons on the display, bring the leaf in the position indicated by the display (opening or closing). Once the desired position is reached, confirm the position by pressing the OK button. For E5 motors, the leaf can be manually positioned close to the limit stops by pushing the gate; then move the gate using the "+/-" button until it is against the mechanical stopper. To confirm the position, or use the OK button or the radio control (previously stored).

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.

### 8.10) 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.

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

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

### 11) 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.

12) 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 properly an injury to properly and injury to properly an injury to properly and injury to properly an injury to properly and injury to properly and injury to properly an injury to properly and injury to prope

warking: 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 a 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

MARNING: 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 - (PRc 80)

ABLE "A" - PAKAMETEKS MENU - (FRERII)						
Parameter	min.	max.	Default	Personal	Definition	Description
oPEn dELRY E INE	0	10	3		Motor 2 opening delay time [s]	Motor 2 opening delay time with respect to motor 1.
cLS dELRY E INE	0	25	6		Motor 1 closing delay time [s]	Motor 1 closing delay time with respect to motor 2. <b>NOTE:</b> if the time is set to maximum, before starting, engine 1 waits for the complete shut down of engine 2.
EcR	0	120	10		Automatic closing time [s]	Waiting time before automatic closing.
ErFLüht. 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 ISE. 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. ATTENTION: with actuators with integrated locks, the permanently active slowdown to a value higher than 5 is mandatory. WARNING: in GIUNO, the slow-down distance is set with the sliding sensors ATTENTION: for the ELI BT A35 engine type, the slowing cannot be excluded; values below 10% will be considered to be 10%.
cL.d ISE. SLoUd	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.  ATTENTION: with actuators with integrated locks, the permanently active slowdown to a value higher than 5 is mandatory.  WARNING: in GIUNO, the slow-down distance is set with the sliding sensors.  ATTENTION: for the ELI BT A35 engine type, the slowing cannot be excluded; va- lues below 10% will be considered to be 10%.
d ISE.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.
PArt IAL oPEn InG	10	99	99		Partial opening M1 [%]	Partial opening distance as a percentage of total opening following activation of PED pedestrian command.
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 anti-crush safety devices where necessary (**).

Parameter	min.	max.	Default	Personal	Definition	Description
cL5.ForcE	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 anti-crush 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. ATTENTION: for motor type ELI BT A35 it is not possible to exclude the deceleration; values greater than 50% will be considered at 50%.
NA Inte- nAnce	0	250	0		Programming number of operations for maintenan- ce 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 .

<sup>(\*)</sup> In the European Union, apply standard EN 12453 for force limitations, and standard EN 12445 for measuring method. (\*\*) Impact forces can be reduced by using deformable edges.

### TABLE "B" - LOGIC MENU - (ಓಂಟ್ ಓಂ)

Logic	Definition	Default	Cross out setting used		Optional e	extras				
			0	Motors not active						
			1	ELI 250 BT						
			2	PHOBOS N BT						
			3	IGEA BT						
	Motor type		4	NOT MANAGED						
			5	NOT MANAGED						
			6	SUB BT						
			7 8	KUSTOS BT A - PHOBOS BT A	F A FO					
Notor EYPE	(Set the type of motor	0	9	GIUNO ULTRA BT A20 - GIUNO ULTRA BT A 50  VIRGO SMART BT A - 5 wires						
	connected to the board).		10							
	board).			VIRGO SMART BT A - 3 wires						
			11	E5 BT A18						
			12	E5 BT A12						
			14	ELI BT A40 LS						
			15	ELIBT A35 LS						
			16	ELIBT A35						
			0	ELI BT A40						
EcR	Automatic Closing Time	0	1	Logic not enabled						
	111110			Switches automatic closing on						
FRSE cLS.	Fast closing	0	0	Logic not enabled						
			1	Closes 3 seconds after the photocells are cleared before waiting for the set TCA to elapse.						
	Step-by-step movement	0	0	Inputs configured as Start E, Start I, Ped operate with 4-step logic.	configured as Start E, Start I, erate 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		
				Inputs configured as Start E, Start I, Ped operate with 2-step logic. Movement reverses with each pulse.	CLOSED	OPENS	OPENS	OPENS		
SEEP-BY-SEEP			2		DURING CLOSING			STOPS		
NouErnt					OPEN	CLOSES	CLOSES	CLOSES		
					DURING OPENING		STOP + TCA	STOP + TCA		
						<del>                                     </del>	<u> </u>	-		
					AFTER STOP	OPENS	OPENS	OPENS		
			0	The flashing light comes on at the same time as the motor(s) start.						
PrE-ALA-N	Pre-alarm	0	1	The flashing light comes on approx. 3 seconds before the motor(s) start.						
			0	Pulse operation.						
hoLd-to-rün	Deadman	0	1	Deadman mode. 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 operation. If the board fails the safety device tests (photocell or safety edge, Er0x) 3 times in a row, the device is switched to Deadman mode, which will stay active until the OPEN UP or CLOSE UP keys are released. Input 61 is configured as OPEN UP. Input 62 is configured as CLOSE UP.  WARNING: with the device set to Emergency Deadman mode, safety devices are not enabled.						

Logic	Definition	Default	Cross out setting used	Optional extras
IbL oPEn	Block pulses during opening	0	0	Pulse from inputs configured as Start E, Start I, Ped has effect during opening.
	<u> </u>		0	Pulse from inputs configured as Start E, Start I, Ped has no effect during opening.  Pulse from inputs configured as Start E, Start I, Ped has effect during TCA pause.
* IBL EcA	Block pulses during TCA	0	1	Pulse from inputs configured as Start E, Start I, Ped has no effect during TCA pause.
	Block pulses during	0	0	Pulse from inputs configured as Start E, Start I, Ped has effect during closing.
IbL cLoSE	closing	0	1	Pulse from inputs configured as Start E, Start I, Ped has no effect during closing.
			0	Logic not enabled
rAN bLob c.oP	Hammer during opening	0	1	Before opening completely, the gate pushes for approx. 2 seconds as it closes. This allows the solenoid lock to be released more easily.  IMPORTANT - Do not use this function if suitable mechanical stops are not in place.
	l		0	Logic not enabled
rRN blob ccl	Hammer during closing	0	1	Before closing completely, the gate pushes for approx. 2 seconds as it opens. This allows the solenoid lock to be released more easily.  IMPORTANT - Do not use this function if suitable mechanical stops are not in place.
			0	Logic not enabled
bLoc PEr5 ISt	Stop maintenance	0	1	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.  NB: In hydraulic motors, this function serves to compensate a possible reduction in the volume of oil due to a drop in temperature during extended pauses, such as during the night, or due to internal leakage.  IMPORTANT - Do not use this function if suitable mechanical stops are not in place.
			0	Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing
			0	limit switch must be adjusted accurately (Fig.G Ref.B).
PrESS Suc	Closing limit switch pressure	0	1	Use when there is a mechanical stop in closed position. This function allows leaves to press against the mechanical stop without the Amperostop sensor interpreting 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).
			0	The Amperostop safety trip threshold stays at the same set value.
lcE	Ice feature	0	1	The controller automatically adjusts the obstacle alarm trip threshold at each start up. 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. If in doubt, use auxiliary safety devices. This feature is useful when dealing with installations running at low temperatures. WARNING: once this feature has been activated, you will need to perform an autoset opening and closing cycle.
l Notion	1 motor active	0	0	Both motors active (2 leaves).
1 1102.011			1	Only motor 1 active (1 leaf).
chRnGE Not	Inversion of the mo- tor's phase shift	0	0	Open: M1 starts in advance compared to M2 (opening phase shift). (See Fig.E) Closure: M2 starts in advance compared to M1 (closing phase shift). (See Fig.E) Pedestrian manoeuvre is performed by M1
2777702 7702			1	Open: M2 starts in advance compared to M1 (opening phase shift). (See Fig.E) Closure: M1 starts in advance compared to M2 (closing phase shift). (See Fig.E) Pedestrian manoeuvre is performed by M2
oPEn in othEr	Open in other	0	0	Standard operating mode (See Fig.E).
d IrEct.	direction		1	Opens in other direction to standard operating mode (See Fig. E)
	Configuration of		0	Input configured as Phot (photocell).
SRFE 1	safety input SAFE 1. 72  Configuration of safety input SAFE 2.	6	1	Input configured as Phot test (tested photocell).
			2	Input configured as Phot op (photocell active during opening only).
SRFE 2			3	Input configured as Phot op test (tested photocell active during opening only).
3/1/ 2 2	74		4	Input configured as Phot cl (photocell active during closing only).
58FE 3	Configuration of		5	Input configured as Phot cl test (tested photocell active during closing only).
שרכ 5	safety input SAFE 3. 77		6	Input configured as Bar, safety edge.
COCC 11	Configuration of	4	7	Input configured as Bar, tested safety edge.
SAFE 4	safety input SAFE 4. 79	4	8	Input configured as Bar 8k2 (Inactive on SAFE 3,4,5,6).
SRFE S	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.  Input configured as Bar OP TEST, safety edge tested with inversion active only while opening. If while
	79		10	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).
SRFE 6	Configuration of safety input SAFE 6. 84	6	12	Input configured as Bar CL, safety edge with inversion active only while closing. If while opening, the movement stops.
anre o			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	0	0	Input configured as Start E.
	command input IC 1. 61		1	Input configured as Start I.
	Configuration of		2	Input configured as Open.
lc 2	command input IC 2.	4	3	Input configured as Close.
	Configuration of		4	Input configured as Ped.
lc 3	command input IC 3. 64	2	5	Input configured as Timer.
1c 4	Configuration of command input IC 4.	3	6	Input configured as Timer Pedestrian.

Logic	Definition	Default	Cross out setting	Optional extras
Logic	Deminion	Delauit	used	Optional extras
			0	Output configured as 2nd Radio Channel.
RUH D	Configuration of AUX 0 output. 20-21	6	1	Output configured as SCA (gate open light).
	Nox o output 20 21		2	Output configured as Courtesy Light command.
Вин (	Configuration of		3	Output configured as Zone Light command.
	AUX 1 output.	3	4	Output configured as Stair Light
	22-23		5	Output configured as Alarm
	Configuration of		6	Output configured as Flashing light
RUH 2	AUX 2 output. 24-25	1	7	Output configured as Latch
			8	Output configured as Magnetic lock
RUH 3	Configuration of AUX 3 output.	0	9	Output configured as Maintenance
כ חטח	26-37	0	10	Output configured as Flashing Light and Maintenance.
			0	Output configured as 12V=== solenoid latch.
,	Type of lock.		1	Output configured as 12V=== magnetic lock.
LocH	28-29	0	2	Output configured as 24V=== solenoid latch.
	l .		3	Output configured as 24V magnetic lock.
5 11 15	Fixed code		0	Receiver is configured for operation in rolling-code mode. Fixed-Code Clones are not accepted.
F IHEd codE		0	1	Receiver is configured for operation in fixed-code mode. Fixed-Code Clones are accepted.
	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
ProtEct Ion			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  A - You are prompted to enter the password to access the programming menus
LEUEL			2	A - tou 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 NodE	(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.
RddrE55	Address	0	[]	Identifies board address from 0 to 119 in a local BFT network connection. (see U-LINK OPTIONAL MODULES section)
81151 5	Push&Go		0	Logic not active
PUSh Go	(Only for E5 BT A12)	0	1	Manually pushing the stopped leaf toward the opening direction determines the automatic opening.

Logic	Definition	Default	Cross out setting used	Optional extras		
			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 6	Input configured as Timer command.		
			7	Input configured as Timer Pedestrian command. 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).		
	Configuration of EXPI1 input on	1	11	Input configured as safety Bar OP, safety edge with inversion active only while opening, if while closing the movement stops.		
EHPII	input-output expan- sion board.		12	Input configured as safety Bar CL, safety edge with inversion active only while closing, if while opening the movement stops.		
	1-2		13	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.		
			14	Input configured as Phot op test safety, tested photocell active only while opening. Input 3 (EXPI2) on input/output expansion board is switched automatically to safety device test input, EXPFAULT1		
			15	Input configured as Phot cl test safety, tested photocell active only while closing. Input 3 (EXPI2) on input/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.		
	Configuration of		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.		
	EXPI2 input		6	Input configured as Timer Pedestrian command.		
EHP 12	on input-output expansion board. 1-3	0	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.		
	Configuration of EXPO1 output on input-output expansion board 4-5	11	0	Output configured as 2 <sup>nd</sup> Radio Channel.		
			1	Output configured as SCA (gate open light).		
EHPo I			2	Output configured as Courtesy Light command.		
2,0,01			3	Output configured as Zone Light command.		
			4	Output configured as Stair Light.		
			5	Output configured as Alarm.		
		11	6	Output configured as Flashing light.		
ЕНРо2	Configuration of EXPO2 output on input-output expansion board 6-7		7	Output configured as Latch.		
			8	Output configured as Magnetic lock.		
			9	Output configured as Maintenance.		
			10	Output configured as Flashing Light and Maintenance.		
			11	Output configured as Traffic Light control with TLB board.		
ECREE IS LIGHT	Traffic light pre-	0 -	0	Pre-flashing switched off.		
Preflash Ind	flashing		1	Red lights flash, for 3 seconds, at start of operation.		
ErRFF Ic L IGHE		0	0	Red lights off when gate closed.		
rEd LANP ALUAYS on	Steadily lit red light		1	Red lights on when gate closed.		

## TABLE "C" - RADIO MENU (c 8d lo)

Logic	Description
Rdd StRrt	Add Start Key associates the desired key with the Start command
Rdd Zch	Add 2ch Key associates the desired key with the 2nd radio channel command. Associates the desired key with the 2nd radio channel command. If no output is configured as 2nd Radio Channel Output, the 2nd radio channel controls the pedestrian opening.
ErRSE 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.
υK	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.