



CONTROL PANEL



IINSTALLATION MANUAL

ALLF

BFL



AZIENDA CON SISTEMA DI GESTIONE CERTIFICATO DA DUY GL =ISO 9001= =ISO 14001=

Attenzione! Leggere attentamente le "Avvertenze" all'interno! Caution! Read "Warnings" inside carefully! Attention! Veuillez lire attentivement les Avertissements qui se trouvent à l'intérieur! Achtung! Bitte lesen Sie aufmerksam die "Hinweise" im Inneren! ¡Atención; Leer atentamente las "Advertencias" en el interior! Let op! Lees de "Waarschuwingen" tigre aan de binnenkant zorgvuldig!

QUICK INSTALLATION





Photocells not checked (Check every 6 months)



Photocell checked

ENGLISH

IT IS NECESSARY TO FOLLOW THIS SEQUENCE OF ADJUSTMENTS:

- Adjusting the limit switches
 Autoset
 Programming remote controls
 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





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ENGLISH



10 - THALIA





THALIA - 17





ENGLISH



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D814123 0AA00_

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

- Control of 1 or 2 24V BT motors

Control of 1 or 2 24V B1 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 ich on site asiar. installer's job on site easier.

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

TESTING

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D814123 0AA00_

The THALIA panel controls (checks) the start relays and safety devices (photocells) before performing each opening and closing cycle. If there is a malfunction, make sure that the connected devices are working

properly and check the wiring.

3) TECHNICAL SPECIFICATIONS						
Power supply	220-230V 50/60 Hz*					
Low voltage/mains insulation	> 2MOhm 500V					
Operating temperature range	-20 / +55°C					
Thermal overload protection	Software					
Dielectric rigidity	mains/LV 3750V~ for 1 minute					
Motor output current	max. 7.5A+7.5A					

Motor relay switching current	10A
Maximum motor power	180W + 180W (24V)
Accessories power supply	24V~ (demand max. 1A) 24V~safe
AUX 0	NO 24V powered contact (max.1A)
AUX 3	NO contact (24V~/max.1A)
Fuses	see Fig. C
N° of combinations	4 billion
Max.n° of transmitters that can be memorized	63
(*other voltages to order)	

$\begin{array}{l} \textbf{Usable transmitter versions:} \\ \textbf{All ROLLING CODE transmitters compatible with } \left((\in \text{R-Ready}) \right) \end{array}$

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 1 mm of additional insulation.
Wires must be secured with additional fastening near the terminals, using devices such as cable clamps.
All connecting cables must be kept far enough away from the dissipater.
WARNING! For connection to the mains power supply, use a multicore cable with a cross-sectional area of at least 3x1.5mm2 of the kind provided for by the regulations in force. To connect the motors, use a cable with a cross-sectional area of at least 1.5mm2 of the kind provided for by the regulations in force. The cable must be type H05RN-F at least.

	Terminal	Definition	Description
	L	LINE	
<u>></u>	N	NEUTRAL	Single-phase power supply 220-230V 50/60 Hz*
ddns	JP5	TRANSF PRIM	Transformer primary winding connection, 220-230V.
ver	JP7		
Ρον	JP21	TRANSF SEC	Board power supply: 24V~ Transformer secondary winding 24V= Buffer battery power supply
	10	MOT1 +	Connection motor 1. Time lag during closing.
tor	11	MOT1 -	Check connections shown in Fig.E
Wo	14	MOT2 +	Connection motor 2. Time lag during opening.
	15	MOT2 -	Check connections shown in Fig.E
	20	AUX 0 - 24V POWERED	AUX 0 configurable output - Default setting FLASHING LIGHT. 2ND RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE
×	21	(MAX. 1A)	NANCE. Refer to "AUX output configuration" table.
Aı	26	AUX 3 - FREE CONTACT (N.O.)	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.
	27	(Max. 24V 1A)	Refer to "AUX output configuration" table.
or S S	41	+ REF SWE	Limit switch common
s Cch f s Cch f s Cch f	42	SWC 1	Motor 1 closing limit switch SWC1 (N.C.).
vit MAI A3 A3 Vire	43	SWO 1	Motor 1 opening limit switch SWO1 (N.C.).
5 v BT	44	SWC 2	Motor 2 closing limit switch SWC2 (N.C.).
Limi El Ell Ell	45	SWO 2	Motor 2 opening limit switch SWO2 (N.C.).
for BT T A VIRGO	42	SW 1	Limit switch control motor 1. For actuators with single-wire limit switch control.
Limit switch PHOBOS N IGEA BT SUB BT SUB BT PHOBOS BT AV SMART BT 3 wires	43	SW 2	Limit switch control motor 2. For actuators with single-wire limit switch control.
, A20 A50	40	- REF SWE	Limit switch common
tch for RA BT RA BT A BT A 12 A 12	42	SW 1	Limit switch control motor 1.
Limit swi GIUNO ULT GIUNO ULT ES BT ES BT	43	SW 2	Limit switch control motor 2.
51010	40	- REF SWE	Encoder power supply, white cable
5 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	41	+ REF SWE	Encoder power supply, brown cable
t switc 3T A3 3T A4	42	ENC M1	Engine 1 encoder signal, green cable
ELLIE	43	ENC M2	Engine 2 encoder signal, green cable Close the jumper JP29
s V	50	24\/-	
orie upp	51	241/1	Accessories power supply output.
Access power s	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
nmands	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.
Con	62	IC 2	Configurable command input 2 (N.O.) - Default PED. START E / START I / OPEN / CLOSE / PED / TIMER / TIMER PED Refer to the "Command input configuration" table.
	70	Common	STOP, SAFE 1 and SAFE 2 inputs common
	71	STOP	The command stops movement. (N.C.) If not used, leave jumper inserted.
devices	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.
ety	73	FAULT 1	Test input for safety devices connected to SAFE 1.
Sai	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.
enna	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
Ante	#	SHIELD	antenna 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 5EEP-by-5EEP Pau. logic. External start for traffic light control.

IC logic= 1 - Input configured as Start I. Operation according to 5٤٤٣-٢٦ ... logic. Internal start for traffic light control.

IC logic= 2 - Input configured as Open.

The command causes the leaves to open. If the input stays closed, the leaves stay open until the contact is opened. When the contact is open, the automated device closes following the TCA time, where activated.

IC logic= 3 - Input configured as Closed.

The command causes the leaves to close IC logic= 4 - Input configured as Ped.

The command causes the leaf to open to the pedestrian (partial) opening position. Operation according to 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

Safety input configuration

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) 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 80) (PARAMETERS TABLE "A")

8.2) LOGIC MENU (Lou le) (LOGIC TABLE "B")

8.3) RADIO MENU (r Ad Io) (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 (RULoSEL)

- 6) AUTOSET MENU (HULDSEE) 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.

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. /!\

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

- Run the AUTOSET cycle (*)
 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
- Where necessary, adjust the speed and sensitivity (lote) parameters: see parameters table.
 Check the impact forces again: if they fall within the limits (**) skip to point 10 of the procedure, otherwise
 Apply a shock absorber profile
 Check the impact forces again: if they fall within the limits (**) skip to point 10 of the procedure, otherwise
 Apply a receive or experiment of the procedure of the 4.
- 6.
- 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 procedure, otherwise
 Allow the drive to move only in "Deadman" mode
 Make sure all devices designed to detect obstacles within the system's operating range are working property.

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

8.8) LIMIT STOP ADJUSTMENT MENU (r ξ Ω 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 on the display

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) stored)

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) SOLENOID LOCK Fig. I SOLENOID LOCK WARNING: In the case of leaves longer than 3m, it is essential to install

WARNING: In the case of leaves longer than 3m, it is essential to install a solenoid lock. Fig. 1 shows a sample connection of an ECB 24V~ solenoid latch connected to the THALIA control panel. In order to control the solenoid lock, the THALIA panel needs a special board mod. ME BT.

13) RESTORING FACTORY SETTINGS (Fig.J) 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 people and animals

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

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



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).

「ABLE "A" - PARAMETERS MENU - (PRr R们)						
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.
els dELAY E INE	0	25	6		Motor 1 closing delay time [s]	Motor 1 closing delay time with respect to motor 2. NOTE: if the time is set to maximum, before starting, engine 1 waits for the complete shut down of engine 2.
ŁсЯ	0	120	10		Automatic closing time [s]	Waiting time before automatic closing.
ErFLüht. clrt	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%.
cLd 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; values below 10% will be considered to be 10%.
d ISE.dEcEL	o	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.
PRrt IRL oPEn Inŭ	10	99	99		Partial opening M1 [%]	Partial opening distance as a percentage of total opening following activation of PEC 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 events are met with the set value (*). Install anti-crush safety devices where necessary (**).
cLSForcE	1	99	50		Leaf force during closing [%]	Force exerted by leaf/leaves during closing. This is the percentage of force delivered, beyond the force stored during the autoset cycle (and subsequently updated), before an obstacle alarm is generated. The parameter is set automatically by the autoset function. WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). Install 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 the ELI BT A35 engine type, the slowing cannot be excluded; values below 50% will be considered to be 50%.
NR Inte- nRnce	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. (**) Impact forces can be reduced by using deformable edges.

TABLE "B" - LOGIC MENU - (ໄດຍົ ໄດ)

Logic

Definition

INSTALLATION MANUAL

Motors not active

ELI 250 BT

Cross out setting used

0

1

Default

Optional extras

			2	PHOBOS N BT
Motor type		3	IGEA BT	
		3		
		5		
		5		
		0		
	0	/		
NOCOF COFC	connected to the	0	0	VIDCO CMADT DT A _ C uting
board).		9	VIRGO SMART BLA - 5 WIRES	
			10	VIRGU SMART BLA - 3 WIRES
			12	
			12	
			13	ELIBIA40LS
			14	ELIBIASS LS
			15	
			16	
FcB	Automatic Closing	0	0	Logic not enabled
~~~~	lime	-	1	Switches automatic closing on
	Frank also da un		0	Logic not enabled
FH56 cl5.	Fast closing	0	1	Closes 3 seconds after the photocells are cleared before waiting for the set TCA to elapse.
			0	Inputs configured as Start E Start L Ped operate with 4-step logic
SEEP-BY-SEEP	Step-by-step	0	1	Inputs configured as Start E, Start I. Pad operate with 2 stap logic.
ΠουξΠηξ	movement	Ū	2	Inputs configured as Start E, Start I, Ped operate with 3 step logic. Puise during closing reverses movement.
			2	The declared as start E, start E, Ped operate with 2-step logic. Movement reverses with each puise.
PrE-ALArD	Pre-alarm	0	0	The flashing light comes on at the same time as the motor(s) start.
			1	The flashing light comes on approx. 3 seconds before the motor(s) start.
			0	Pulse operation.
				Deadman mode.
				Input 61 is configured as OPEN UP.
			1	Operation continues as long as the OPEN UP or CLOSE UP keys are held down.
bol d-ho-cilo	Deadman	0		WARNING: safety devices are not enabled.
		-		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.
			2	Input 61 is configured as OPEN UP.
			_	$\Lambda$
				WARNING: with the device set to Emergency Deadman mode, safety devices are not enabled
lbi oPEn	Block pulses during	ng ₀	0	Pulse from inputs configured as Start E, Start I, Ped has effect during opening.
	opennig		1	Pulse from inputs configured as Start E, Start I, Ped has no effect during opening.
ibi EcB	Block pulses during	0	0	Pulse from inputs configured as Start E, Start I, Ped has effect during TCA pause.
	ICA		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.
101 61036	closing	0	1	Pulse from inputs configured as Start E. Start I. Ped has no effect during closing.
				······································
-90 List -9			0	Logic not enabled
rAN 6Lob c.oP	Hammer during	0	0	Logic not enabled Before opening completely, the gate pushes for approx. 2 seconds as it closes. This allows the solenoid
	Hammer during opening	0	0	Logic not enabled Before opening completely, the gate pushes for approx. 2 seconds as it closes. This allows the solenoid lock to be released more easily.
	Hammer during opening	0	0	Logic not enabled 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.
	Hammer during opening Hammer during	0	0 1 0	Logic not enabled 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. Logic not enabled Defore a place in the second stops are not in the second stops are not in place.
rRN blob c.cl	Hammer during opening Hammer during closing	0	0 1 0	Logic not enabled 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. Logic not enabled Before closing completely, the gate pushes for approx. 2 seconds as it opens. This allows the solenoid lock to be released more easily.
rAN blob c.cl	Hammer during opening Hammer during closing	0	0 1 0 1	Logic not enabled 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. Logic not enabled 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.
rAN blob c.cl	Hammer during opening Hammer during closing	0	0 1 0 1 1 0	Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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.         Logic not enabled
rAN blob c.cl	Hammer during opening Hammer during closing	0	0 1 0 1	Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         Logic not enabled         If motors stay idle in fully open or fully closed position for more than one hour, they are switched on in
rAN bLob c.c.L bLoc PErS 15t	Hammer during opening Hammer during closing Stop maintenance	0		Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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.         NP: In budgenultic metric this function is not in prover to compute a possible reduction in the uplumo of all due.
rAN bLob c.c.L bLoc PErS ISE	Hammer during opening Hammer during closing Stop maintenance	0	0 1 0 1 1 0 1	Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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.
rAN bLob c.c.L bLoc PErS ISE	Hammer during opening Hammer during closing Stop maintenance	0	0 1 0 1 1 0 1	Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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.
rRN blob c.cl bloc PErS ISt	Hammer during opening Hammer during closing Stop maintenance	0		Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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 if suitable mechanical stops are not 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.         Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing
rRN bLob c.cl bloc PErS ISE	Hammer during opening Hammer during closing Stop maintenance	0	0 1 0 1 1 0 1 1 0	Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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 if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing limit switch must be adjusted accurately (Fig.G Ref.B).
rRN bLob c.cl bloc PErS ISE	Hammer during opening Hammer during closing Stop maintenance	0	0 1 0 1 1 0 1 1 0	Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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 if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops or not use the solenoid lock to a propin 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.         Novement is stopped only when the closing limit switch trips: in this case, the tripping of the closing limit switch must be adjusted accurately (Fig.G Ref.B).         Use when there is a mechanical stop in closed position.
PrESS Suc	Hammer during opening Hammer during closing Stop maintenance Closing limit switch pressure	0 0 0 0		Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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 if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         Mo
PrESS Suc	Hammer during opening Hammer during closing Stop maintenance Closing limit switch pressure	0 0 0 0	1 0 1 0 1 1 0 1	Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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 if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         Mo
PrESS Suc	Hammer during opening Hammer during closing Stop maintenance Closing limit switch pressure	0 0 0 0	1 0 1 0 1 1 0 1 1	Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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 if suitable mechanical stops are not in place.         IMPORTANT - Do not use 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.         Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing limit switch must be adjusted accurately (Fig.G Ref.B).         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 red continues its stroke for a few seconds after meeting the closing limit switch or as far as the mechanical stop. I
rRN bLob c.cl bloc PEr5 ISE PrESS Sbc	Hammer during opening Hammer during closing Stop maintenance Closing limit switch pressure	0 0 0 0		Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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 if suitable mechanical stops are not in place.         IMPORTANT - Do not use 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.         Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing limit switch must be adjusted accurately (Fig.G Ref.B).         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 red continues its stroke for a few seconds after meeting the closing limit switch or as far as the mechanical stop. I
rRN bLob c.cl bloc PErS ISE PrESS Sbc	Hammer during opening Hammer during closing Stop maintenance Closing limit switch pressure	0 0 0 0	0 1 0 1 1 0 1 1 0	Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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 if suitable mechanical stops are not in place.         IMPORTANT - Do not use 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.         Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing limit switch must be adjusted accurately (Fig.G Ref.B).         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 red continues its stroke for a few seconds after meeting the closing limit switch or as far as the mechanical stop. I
rRN bLob c.cl bLoc PErS ISE PrESS Sbc	Hammer during opening Hammer during closing Stop maintenance Closing limit switch pressure	0	1 0 1 0 1 0 1 0	Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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 if suitable mechanical stops are not in place.         IMPORTANT - Do not use 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.         Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing limit switch must be adjusted accurately (Fig.G Ref.B).         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. I
rRN bLob c.cl bLoc PErS ISE PrESS Sbc	Hammer during opening Hammer during closing Stop maintenance Closing limit switch pressure	0 0 0 0 0 0		Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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 if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         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.         Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing limit switch must be adjusted accurately (Fig.G Ref.B).         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 t
rRN bLob c.cl bLoc PErS ISE PrESS Sbc	Hammer during opening Hammer during closing Stop maintenance Closing limit switch pressure Ice feature	0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 1	Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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 if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         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.         Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing limit switch must be adjusted accurately (Fig.G Ref.B).         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 t
rRN bLob c.cl bLoc PErS ISE PrESS Sbc	Hammer during opening Hammer during closing Stop maintenance Closing limit switch pressure	0 0 0 0 0 0		Logic not enabled 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. Logic not enabled 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. Logic not enabled 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. Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing limit switch must be adjusted accurately (Fig.G Ref.B). Use when there is a mechanical stop in closed position. 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). The Amperostop safety trip threshold stays at the same set value. 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 fe
rRN bLob c.cl bLoc PErS ISE PrESS Sbc IcE	Hammer during opening Hammer during closing Stop maintenance Closing limit switch pressure Ice feature	0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 1 1 0 1 1 0	Logic not enabled         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.         Logic not enabled         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.         Logic not enabled         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 if suitable mechanical stops are not in place.         IMPORTANT - Do not use this function if suitable mechanical stops are not in place.         Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing limit switch must be adjusted accurately (Fig.G Ref.B).         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.         The Amperostop safety trip threshold stays at the same set value.         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.

Only motor 1 active (1 leaf).

1

Logic	Definition	Default	Cross out setting used	Optional extras
	Inversion of the		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
chRnū£ Not	motor's phase shift	0	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	, in the second	1	Opens in other direction to standard operating mode (See Fig. E)
	Configuration of		0	Input configured as Phot (photocell).
SRFE (	safety input SAFE 1.	0	1	Input configured as Phot test (tested photocell).
	72		2	Input configured as Phot op (photocell active during opening only).
			4	Input configured as Phot of test (tested photocell active during opening only).
			5	Input configured as Phot cl test (tested photocell active during closing only).
			6	Input configured as Bar, safety edge.
			7	Input configured as Bar, tested safety edge.
			8	Input configured as Bar 8k2.
			9	Input configured as Bar OP, safety edge with inversion active only while opening. If while closing, the movement stops.
SRFE 2	Configuration of safety input SAFE 2. 74	6	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.
			12	Input configured as Bar CL, safety edge with inversion active only while closing. If while opening, the movement stops.
			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.
			0	Input configured as Start E.
le l	configuration of command input IC 1.	0	1	Input configured as Start I.
· · · ·	61		2	Input configured as Open.
			3	Input configured as Close.
10 2	Configuration of	1	5	
	62		6	Input configured as Timer Pedestrian.
			0	Output configured as 2nd Radio Channel.
ח עונים	Configuration of AUX 0 output. 20-21	6	1	Output configured as SCA, gate open light.
י הטה ט			2	Output configured as Courtesy Light command.
			3	Output configured as Zone Light command.
			4	Output configured as Stair Light
			6	Output configured as Flashing light
808 3	Configuration of AUX 3 output.	0	7	Output configured as Latch
	26-27		8	Output configured as Magnetic lock
			9	Output configured as Maintenance
			10	Output configured as Flashing Light and Maintenance.
		0	0	Receiver is configured for operation in rolling-code mode. Fixed-Code Clones are not accepted.
F IHEd codE	Fixed code		1	Receiver is configured for operation in fixed-code mode. Fixed-Code Clones are accepted.
			0	<ul> <li>A - The password is not required to access the programming menus</li> <li>B - Enables wireless memorizing of transmitters.</li> <li>Operations in this mode are carried out near the control panel and do not require access:</li> <li>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.</li> <li>Press within 10 sec. the hidden key and normal key (T1-T2-T3-T4) of a transmitter to be memorized.</li> <li>The receiver exits programming mode after 10 sec.: you can use this time to enter other new transmitters by repeating the previous step.</li> <li>C - Enables wireless automatic addition of clones.</li> <li>Enables vireless automatic addition of replays.</li> <li>Enables wrecks automatic addition of replays.</li> <li>Enables programmed Replays to be added to the receiver's memory.</li> <li>E - The board's parameters can be edited via the U-link network</li> </ul>
Problem (an	Catting the		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
ProtEct ion LEUEL protection lev	protection level	0	2	<ul> <li>A - You are prompted to enter the password to access the programming menus</li> <li>The default password is 1234.</li> <li>B - Wireless memorizing of transmitters is disabled.</li> <li>C - Wireless automatic addition of clones is disabled. No change in behaviour of functions D - E from 0 logic setting</li> </ul>
			3	<ul> <li>A - You are prompted to enter the password to access the programming menus The default password is 1234.</li> <li>B - Wireless memorizing of transmitters is disabled.</li> <li>D - Wireless automatic addition of Replays is disabled.</li> <li>No change in behaviour of functions C - E from 0 logic setting</li> </ul>
			4	<ul> <li>A - You are prompted to enter the password to access the programming menus The default password is 1234.</li> <li>B - Wireless memorizing of transmitters is disabled.</li> <li>C - Wireless automatic addition of clones is disabled.</li> <li>D - Wireless automatic addition of Replays is disabled.</li> <li>E - The option of editing the board's parameters via the U-link network is disabled.</li> <li>Transmitters are memorized only using the relevant Radio menu.</li> <li>IMPORTANT: This high level of security stops unwanted clones from gaining access and also stops radio interference, if any.</li> </ul>

# **INSTALLATION MANUAL**

Logic	Definition	Default	Cross out setting used	Optional extras
SEc IBL DodE	Serial mode (Identifies how board	0	0	Standard SLAVE: board receives and communicates commands/diagnostics/etc.
20,	network connection).		1	Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.
RddrESS	Address	0	[]	Identifies board address from 0 to 119 in a local BFT network connection. (see U-LINK OPTIONAL MODULES section)
	Push&Go		0	Logic not active
Püsh Lo	(Only for E5 BT A12)	0	1	Manually pushing the stopped leaf toward the opening direction determines the automatic opening.
			0	Input configured as Start E command.
			1	Input configured as Start I command.
			3	Input configured as Open command.
			4	Input configured as Ped command.
			5	Input configured as Timer command.
			7	Input configured as Timer Pedestrian command.
			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).
	EXPI1 input on		11	the movement stops.
ERPII	input-output expan- sion board.	1	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.
			0	Input configured as Start E command.
			1	Input configured as Start I command.
			3	Input configured as Close command.
			4	Input configured as Ped command.
	Configuration of		5	Input configured as Timer command.
EHP IZ	EXPI2 input on input-output	0	7	Input configured as Phot (photocell) safety.
	expansion board. 1-3		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
			0	the movement stops. Output configured as 2 nd Badio Channel
	Configuration of		1	Output configured as SCA (gate open light).
EHPo I	on input-output	11	2	Output configured as Courtesy Light command.
	expansion board 4-5		3	Output configured as Zone Light command.
			4	Output configured as Stair Light.
			5	Output configured as Alarm.
	Configuration of		6	Output configured as Flashing light.
EHP-2	EXPO2 output	11	/	Output configured as Laten.
	expansion board		9	Output configured as magnetic lock. Output configured as Traffic Light control with TLB board.
6-	6-7		10	Output configured as Flashing Light and Maintenance.
			11	Output configured as Traffic Light control with TLB board.
ECREE IC L IGHE	Traffic light pre-		0	Pre-flashing switched off.
PrEFLRSh InG	flashing	0	1	Red lights flash, for 3 seconds, at start of operation.
			0	Red lights off when gate closed.
rEd LAAP RLUAYS on	Steadily lit red light	0	1	Red lights on when gate closed.

#### TABLE "C" - RADIO MENU (r Rd la)

Logic	Description
Rdd SERrE	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	<ul> <li>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.</li> <li>OFF= W LINK programming disabled.</li> </ul>

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