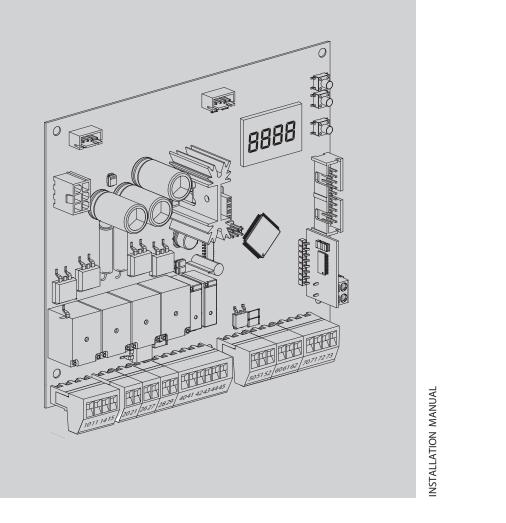




THALIA BT A80

CONTROL PANEL

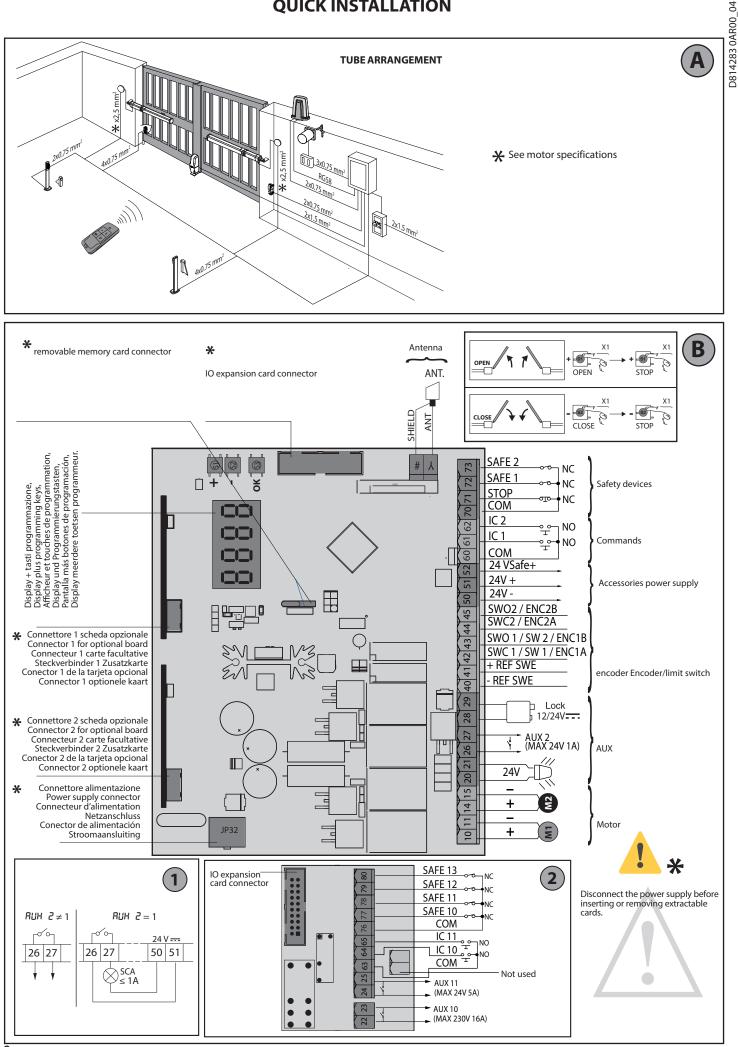


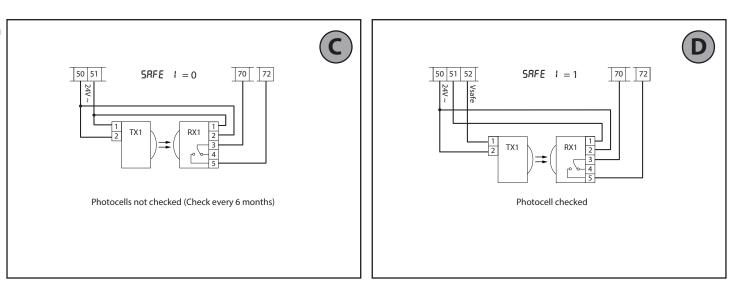


AZIENDA CON SISTEMA DI GESTIONE CERTIFICATO DA DNV GL = ISO 9001 = = ISO 14001 =



QUICK INSTALLATION





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IT IS NECESSARY TO FOLLOW THIS SEQUENCE OF ADJUSTMENTS:

1 - Adjusting the limit switches

- 2 Autoset 3 Programming remote controls 4 Setting of parameters/logic, where necessary

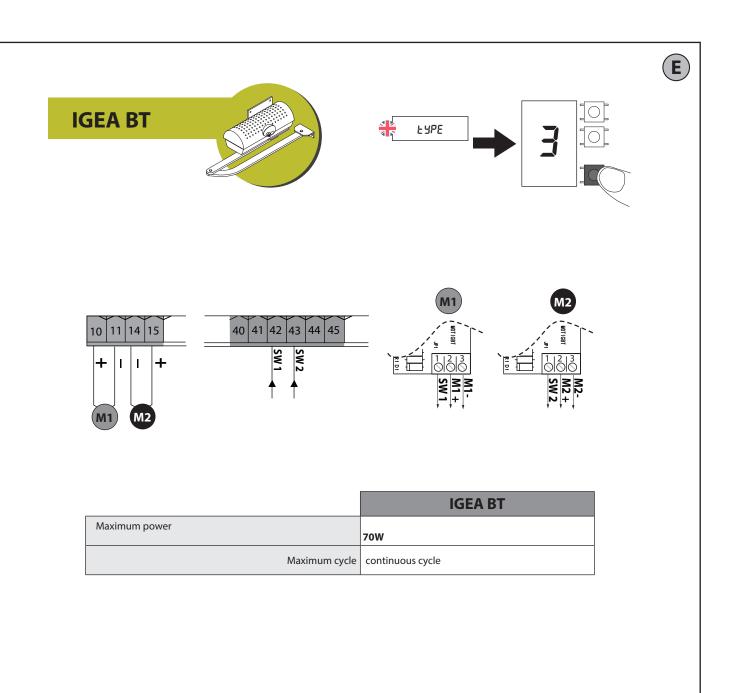
After each adjustment of the end stop position a new autoset is required. After each modification of the motor type, a new autoset must be carried out

- 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

MOTOR COMPATIBILITY

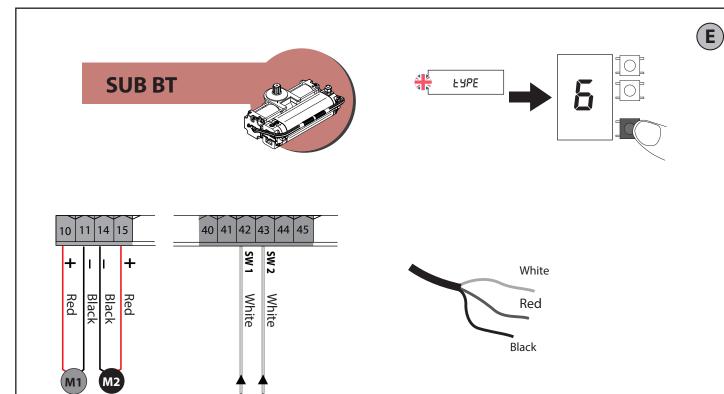
	ELI 250 BT	×
	LUX BT	×
	LUX G BT	×
	IGEA BT	> 01/03/2022 *
	SUB BT	
	PHOBOS BT A 25/40	
THALIA BT A80	PHOBOS BT B 25/40	
0	PHOBOS N BT	
	KUSTOS BT A 25/40	
8888	KUSTOS BT B 25/40	
	GIUNO ULTRA BT A 20	
	GIUNO ULTRA BT A 50	
	VIRGO SMART BT A	
	E5 BT A18	
O consider the second second particular	E5 BT A12	
annus and and and	ELI BT A40 + FCE	> 01/04/2022 *
	ELI BT A40	> 01/04/2022 *
	ELI BT A35 V + FCE	> 01/04/2022 *
	ELI BT A 35 V	> 01/04/2022 *
	PHOBOS VELOCE BT B35	⊘

* Motor only compatible if produced after this date

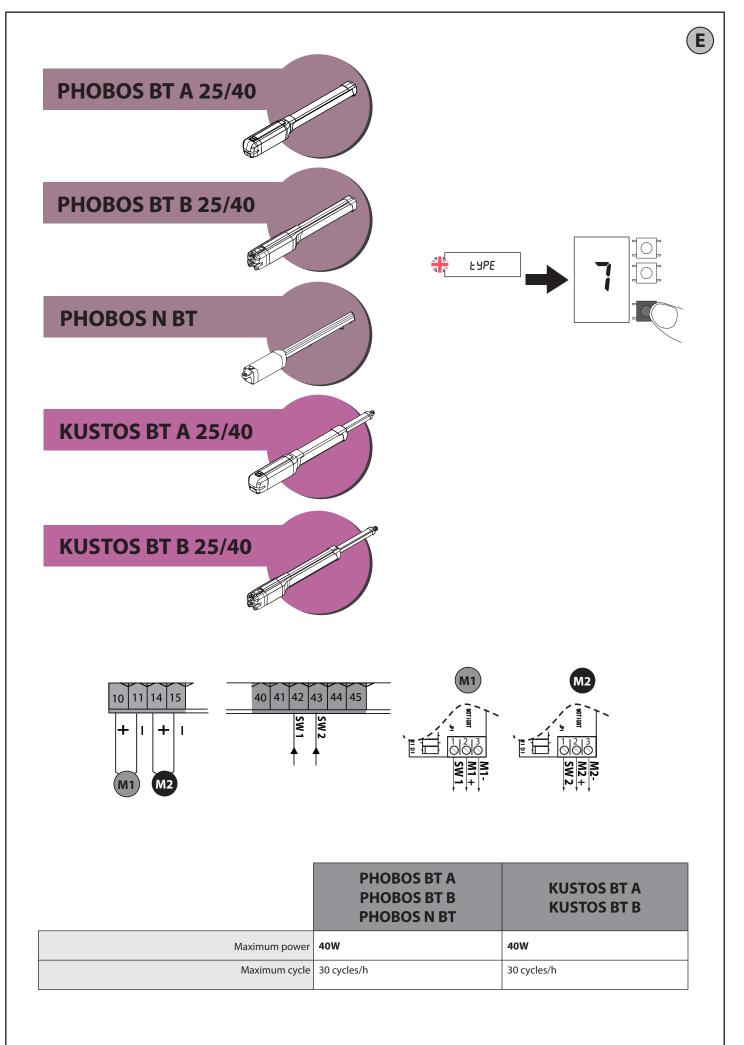


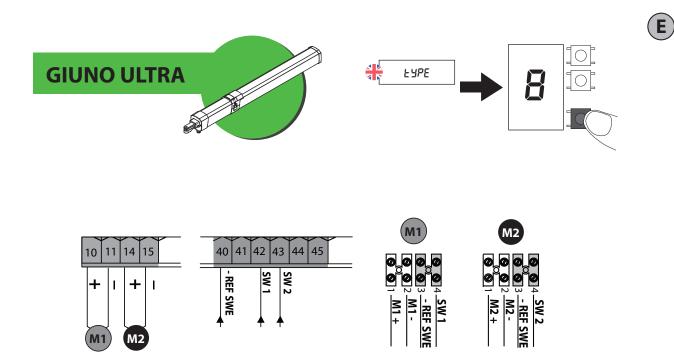
WARNING: The Thalia BT A80 board is only compatible with IGEA motors manufactured after 01/03/2022. Models prior to 01/03/2022 ARE NOT COMPATIBLE WITH the Thalia BT A80" board.





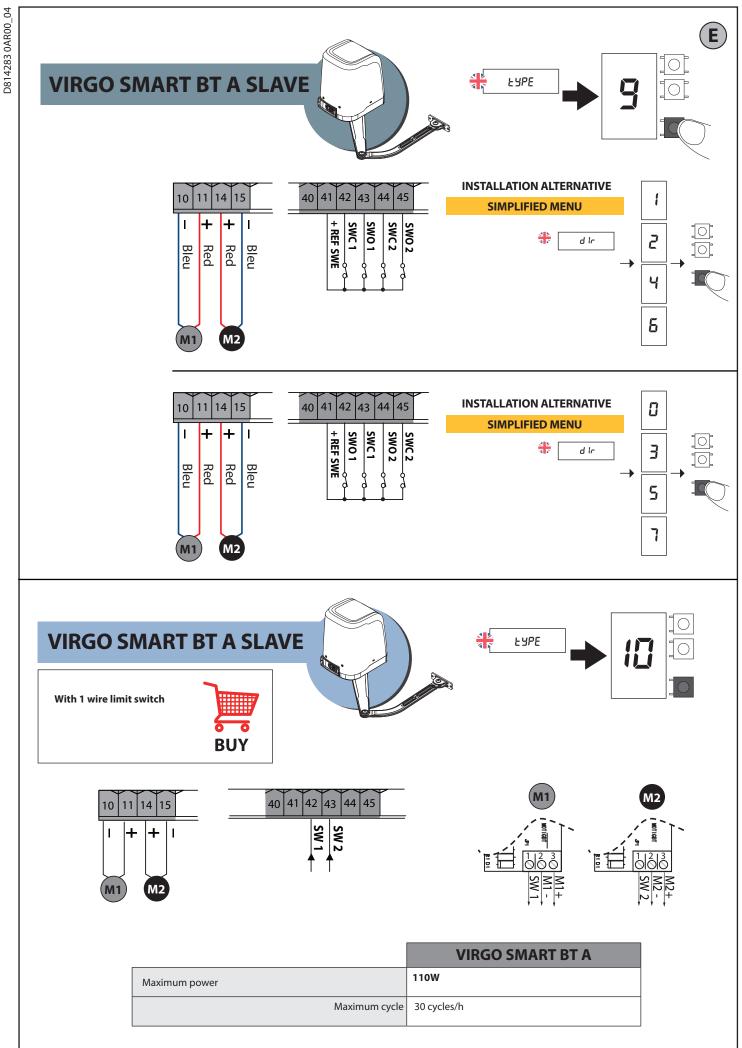
	SUB BT
Maximum power	90W
Maximum cycle	40 cycles/h



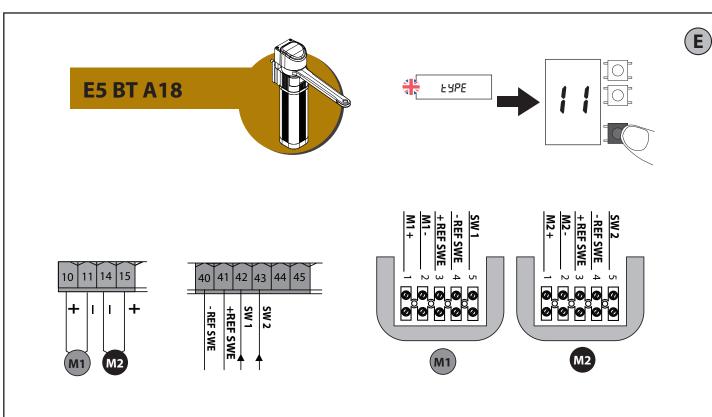


	GIUNO ULTRA BT A 20 GIUNO ULTRA BT A 50
Maximum power	90W
Maximum cycle	30 cycles/h

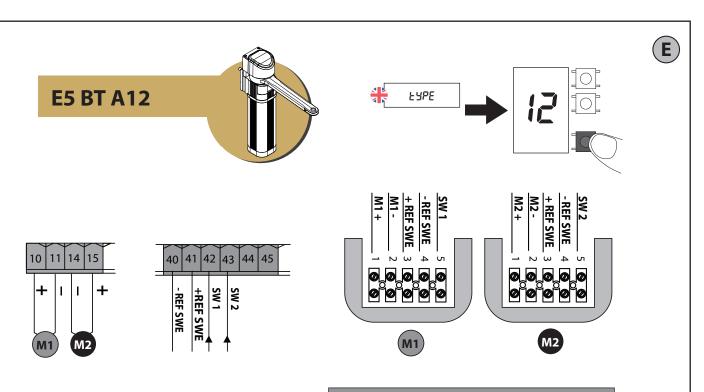
(M2)



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	E5 BT A18
Maximum power	100W
Maximum cycle	20 cycles/h
Maximum cable length	30m



	E5 BT A12
Maximum power	100W
Maximum cycle	100 cycles/h
Maximum cable length	30m

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					
Leaf width (mm)	Leaf weight (kg)				
	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	4,0 s	4,5 s	4,5 s	5,0 s	5,5 s

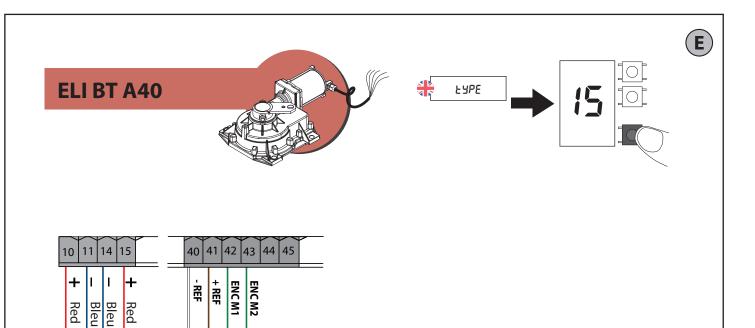
The approaching phase (from 10° to the limit switch position) must take place in at least 1.5 s. **Example:** if the leaf weighs 80 kg and has a width of 1000 mm, adjust the manoeuvre speed from 90° and 10° in at least 4.0 s. For intermediate values, use the higher value: if the leaf weighs 75 kg consider 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.**

E ELI BT A40 + FCE ЕЗРЕ Only with limit switch kit **BUY INSTALLATION ALTERNATIVE** 40 41 42 44 10 11 14 15 43 45 **SIMPLIFIED MENU** + L SWC 1 SWO 1 SWC2 SW02 + REF SWE d Ir Bleu Red Bleu Red 3 M2 **M1 INSTALLATION ALTERNATIVE** 10 11 14 15 40 41 42 43 44 45 **SIMPLIFIED MENU** + + L SWO 1 SWC 1 + REF SWE SWO 2 SWC 2 Bleu Bleu Red Red d Ir ł -2 M2 **M1** ELI BT A40 + FCE 180W Maximum power Maximum cycle | continuous cycle

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WARNING: The Thalia BT A80 board is only compatible with motors manufactured after 01/04/2022. The compatibility of the board with the motor can be checked both by the date of manufacture and by the colour of the wiring harnesses: Motors with RED-BLUE cables are COMPATIBLE. Models prior to 01/04/2022 with RED-BLACK motor cables ARE NOT COMPATIBLE WITH the Thalia BT A80 board.



	ELI BT A40
Maximum power	180W
Maximum cycle	continuous cycle

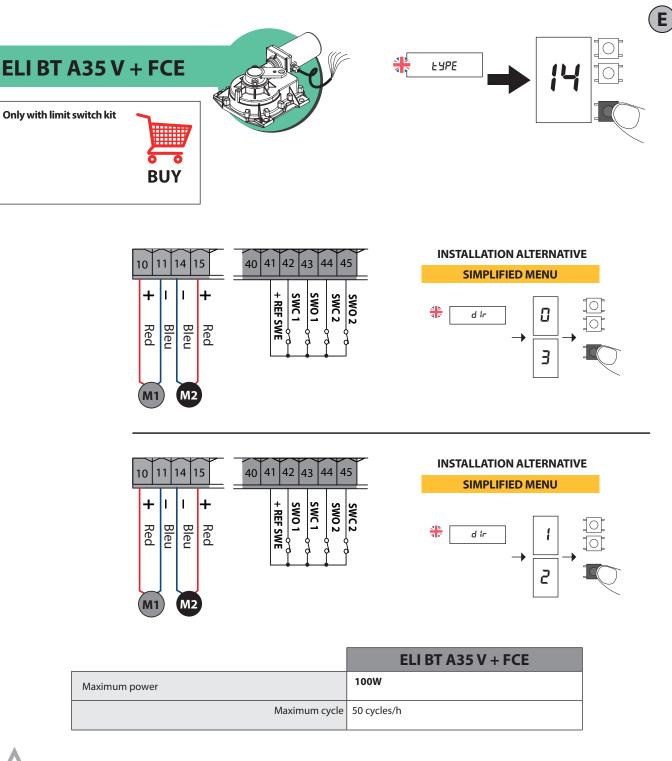
Green Green Brown

White



Μ2

WARNING: The Thalia BT A80 board is only compatible with motors manufactured after 01/04/2022. The compatibility of the board with the motor can be checked both by the date of manufacture and by the colour of the wiring harnesses: Motors with RED-BLUE cables are COMPATIBLE. Models prior to 01/04/2022 with RED-BLACK motor cables ARE NOT COMPATIBLE WITH the Thalia BT A80 board.



D814283 0AR00_04



WARNING: The Thalia BT A80 board is only compatible with motors manufactured after 01/04/2022. The compatibility of the board with the motor can be checked both by the date of manufacture and by the colour of the wiring harnesses: Motors with RED-BLUE cables are



	10 1	11	4 1	5	 40	41	42	43	44	45	
	÷	I	I	+	 - REF	+ REF	ENC M1	ENC M2			
	Red	Bleu	Bleu	Red			LN LN	M2			
					White	Brown	Green	Green			
(M1) (M2								

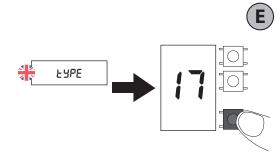
	ELI BT A35 V
Maximum power	100W
Maximum cycle	50 cycles/h

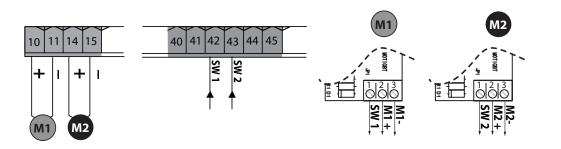


WARNING: The Thalia BT A80 board is only compatible with motors manufactured after 01/04/2022. The compatibility of the board with the motor can be checked both by the date of manufacture and by the colour of the wiring harnesses: Motors with RED-BLUE cables are COMPATIBLE. Models prior to 01/04/2022 with RED-BLACK motor cables ARE NOT COMPATIBLE WITH the Thalia BT A80 board.

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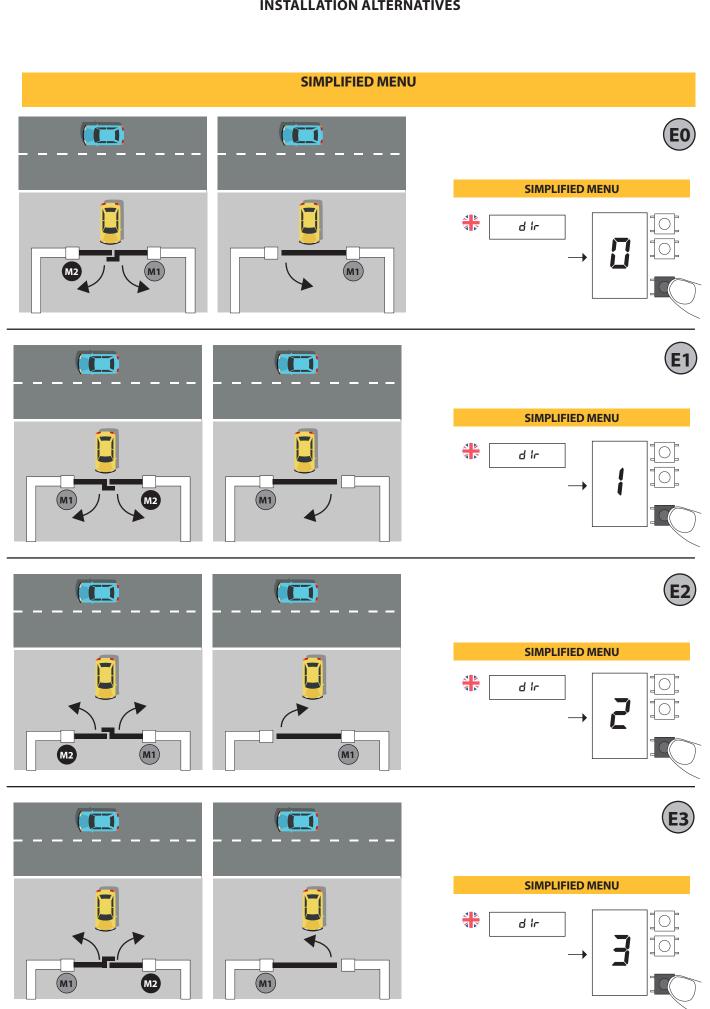


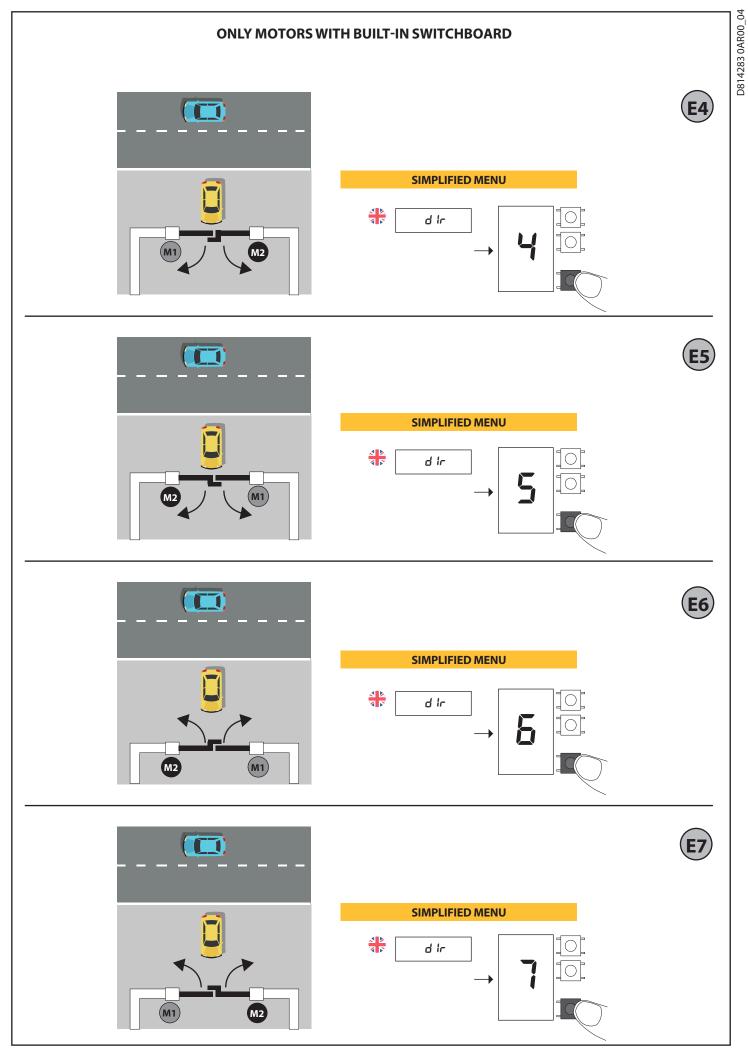




	PHOBOS VELOCE BT B35
Maximum power	60W
Maximum cycle	25 cycles/h

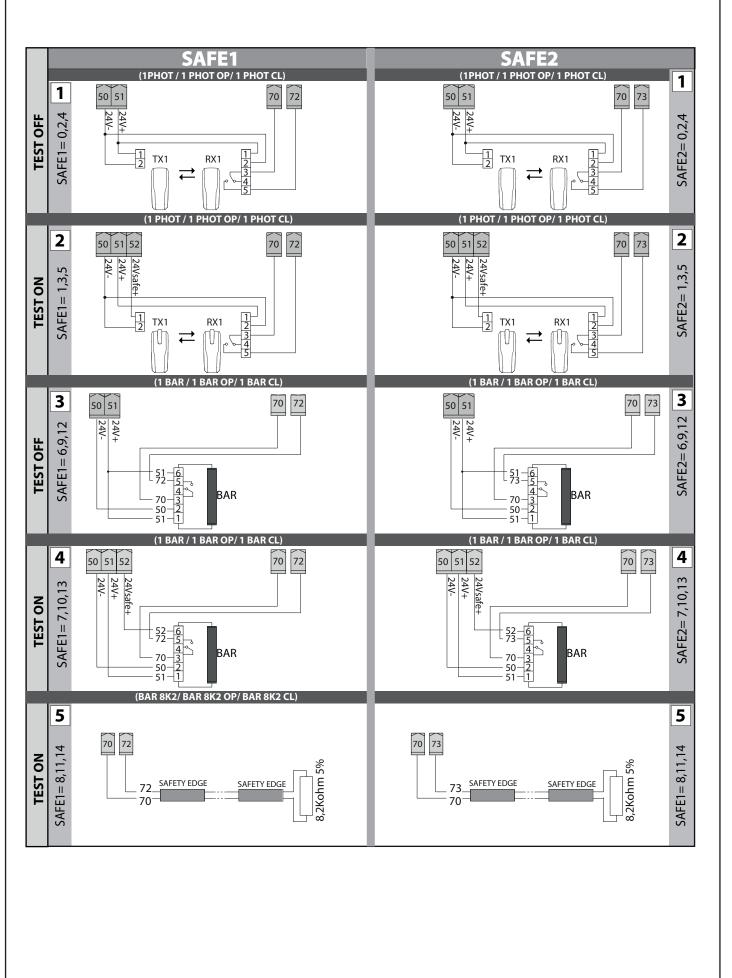
INSTALLATION ALTERNATIVES



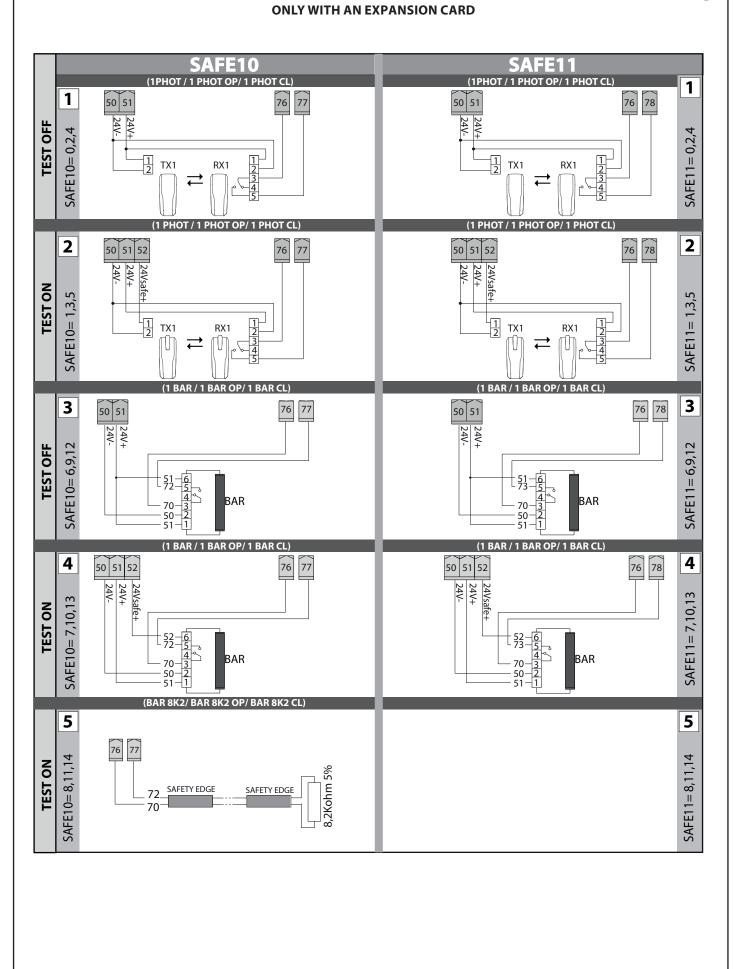


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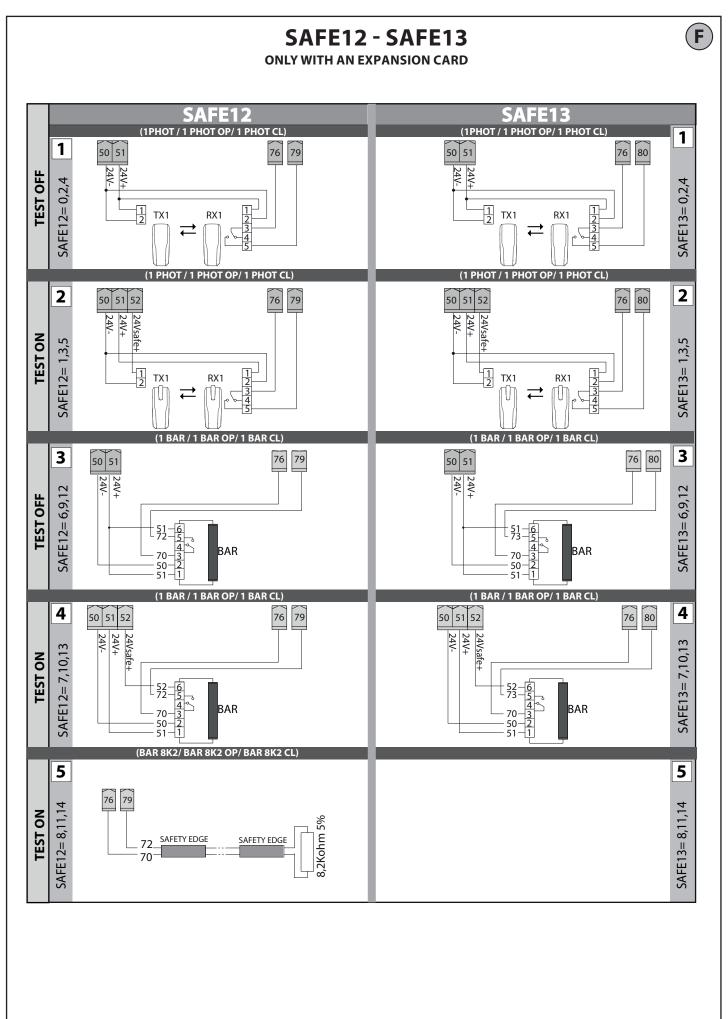
F



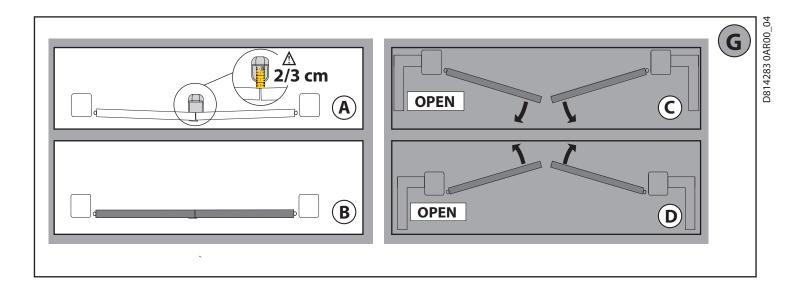
SAFE10 - SAFE11

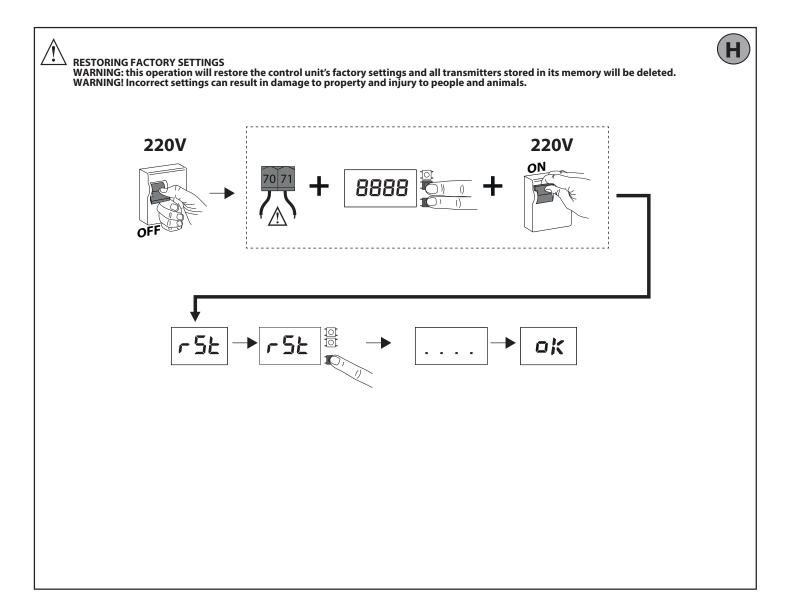
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F

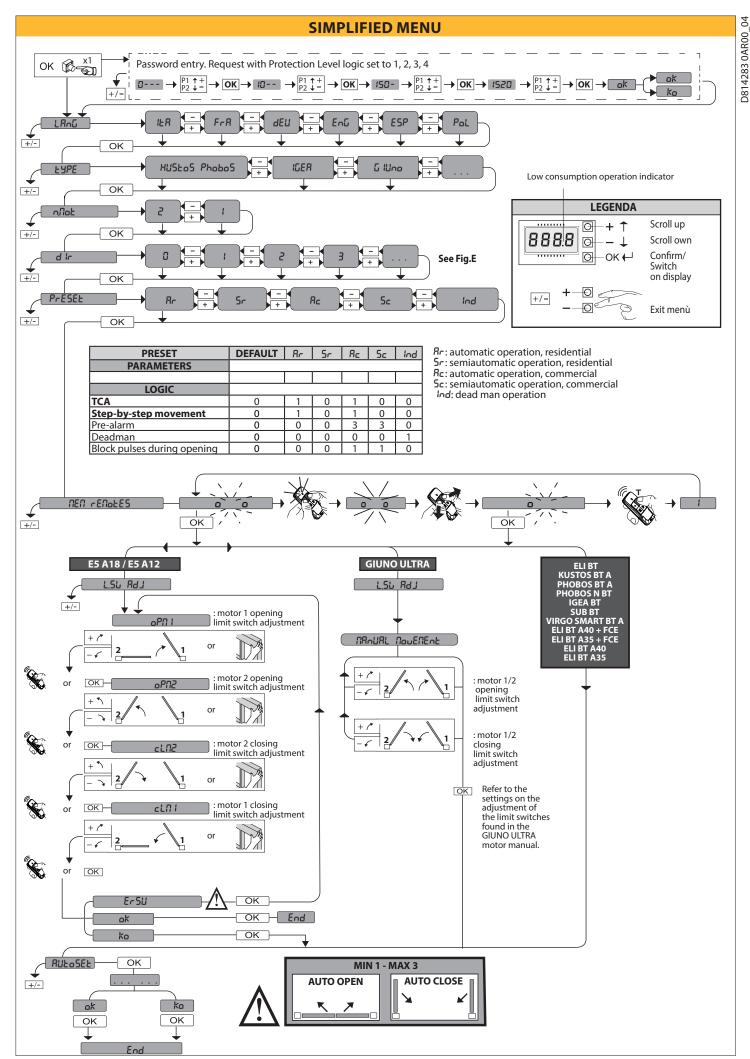


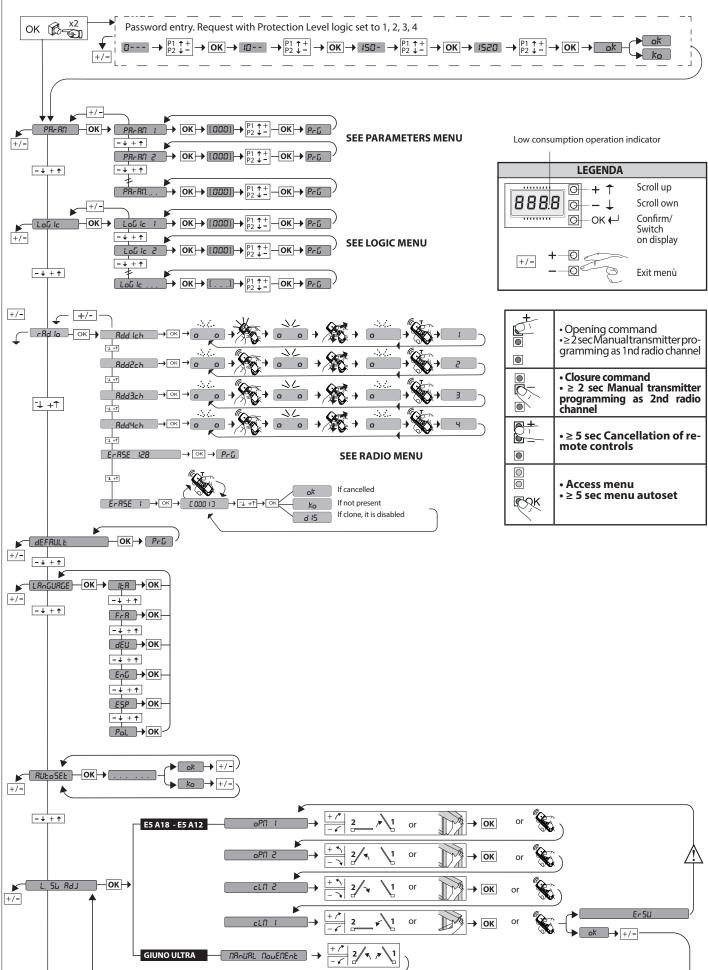
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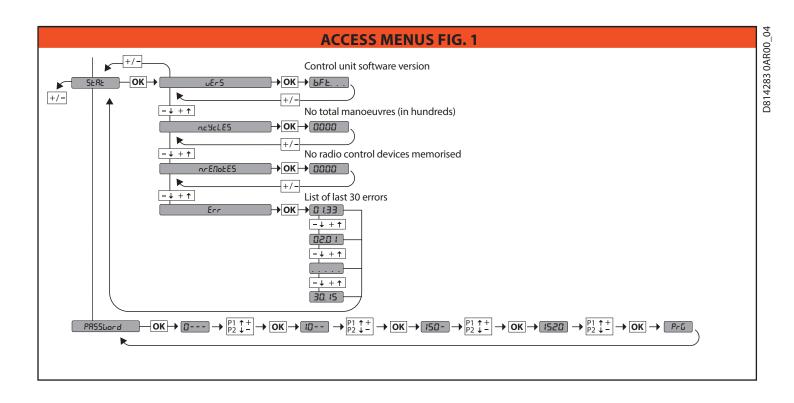


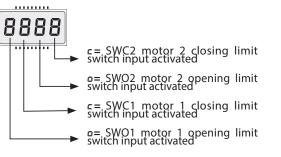


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ACCESS MENUS FIG. 1

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Instantaneous force motor 2
 Instantaneous force motor 1

SEr 1	DESCRIPTION	NOTES
SEr 1		
	START E external start input activated	
	START I internal start input activated	
oPEn	OPEN input activated	
cLS	CLOSE input activated	
РЕЗ	PED pedestrian input activated	
E IFE	TIMER input activated	
Stop	STOP input activated	
rnoc	Activation of PHOT photocell input or, if configured as verified photocell, Activation 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	
Phel	Activation of PHOT CL closing photocell input or, if configured as active verified photocell only when closing, Activation of the associated FAULT input	
onr	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	
	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 uninterrupted by intermediate stops in order to acquire the torque required for movement. WARNINGI Obstacle detection not active	
	Photocell test failed	Check photocell connection and/or logic settings
50 <i>-</i> 3	Safety edge test failed	Check safety edge connection and/or logic settings
		Check photocell connection and/or parameter/logic setting
	Closing photocell test failed	Check photocell connection and/or parameter/logic setting
	8k2 safety edge test failed	Check safety edge connection and/or parameter/logic settings
	Opening safety edge test failed	Check safety edge connection and/or parameter/logic settings
	Closing safety edge test failed	Check safety edge connection and/or parameter/logic settings
	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
	Thermal cutout	Allow automated device to cool
Er SH*	Communication error with remote devices	Check connection with serial-connected accessory devices and/or expansion boards
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. <u>A</u> The board settings must be checked (Parameters and Logics)
Er 73		Pressing OK, the board will keep on working with D-track as a default. \bigwedge An autoset is required
Er83	EEPROM memory error	Check that the memory card has been inserted correctly, try turning the card off and on again. If the problem persists, contact technical assistance.
	Internal system supervision control error.	Try switching the board off and back on again. If the problem persists, contact the technical assistance department.
	Power supply overload	
ErF3	Error in the configuration of the logics (SAFE inputs, motor type)	Check that the SAFE logic or motor type configuration is correct.
	Solenoid lock output overload	-Check lock connections - Unsuitable lock
ErSU	Error during limit switch adjustment Only for E5 BT A18 / E5 BT A12 *#= 0, 1,, 9, A, B, C, D, E, F	Motor or encoder signal power cables inverted/disconnected or incor- rect programming. (see Fig. E)

1) GENERAL INFORMATION The **THALIA BT A80** control panel is supplied by the manufacturer with standard settings. Any variation must be set using the built-in on-screen programmer.

- 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.

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, 70-73. If the above-mentioned terminals are being used, remove the relevant jumpers.

2) TESTING The THALIA BT A80 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) TUBE ARRANGEMENT Fig. A

4) TERMINAL BOARD WIRING Fig. B
WARNINGS - When performing wiring and installation, refer to the standards in force and, whatever the case, apply good practice principles.
Wires carrying different voltages must be kept physically separate from each other, or they must be suitably insulated with at least 1mm of additional insulation.
Wires must be secured with additional fastening near the terminals, using devices such as cable clamps.
All connecting cables must be kept far enough away from the dissipater.
WARNING! For connection to the mains power supply, use a multicore cable with a cross-sectional area of at least 1.5mm² 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 HOSRN-F at least.

5) TECHNICAL SPECIFICATIONS

S) TECHNICAE STECH TCATIONS		
Power supply	220-230V 50/60 Hz	
Power	200W	
Operating temperature range	-20 / +60°C	
Thermal overload protection	Software	
IP	45	
Accessories power supply	24V (≤ 0.5 A)	
AUX 1	NO 24V powered contact (\leq 1A)	
AUX 2	NO contact (24V \approx /\leq 1A)	
Max.n° of transmitters that can be	128	
memorized	2048 (only with expansion kit)	

Usable transmitter versions: All ROLLING CODE transmitters compatible with U-Security

	Terminal	Definition	Description
er oly	L	LINE	
Power supply	Ν	NEUTRAL	Single-phase power supply 220-230V 50/60 Hz
	10	MOT1 +	Connection motor 1. Time lag during closing.
Motor	11	MOT1 -	Check connections shown in Fig.E
Ψ	14	MOT2 +	Connection motor 2. Time lag during opening.
	15	MOT2 -	Check connections shown in Fig.E
	20	AUX 1-POWERED CONTACT	AUX1 configurable output - Default setting FLASHING LIGHT. 2ND RADIO CHANNEL/ SCA GATE OPEN LIGHT/ COURTESY LIGHT command/ ZONE LIGHT command/ STAIR LIGHT/ GATE OPEN ALARM/ FLASHING LIGHT/ SOLENOID LATCH/ MAGNETIC LOCK/ MAINTENANCE/ FLASHING LIGHT AND MAINTE-
	21	24V (≤ 1A)	NANCE. Refer to "AUX output configuration" table.
×	26	AUX 2 - FREE CONTACT (N.O.)	AUX 2 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.
Aux	27	(24V ≂ /≤ 1A)	Refer to "AUX output configuration" table.
	28		Lock type Logic = 0 - 12V snap action electric lock output (max 30W). Pulse activated output on each opening.
			Lock type Logic = 1 - 12V magnet electric lock output (max 15W). Output Activated with gate closed.
		LOCK 12/24V	Lock type Logic = 2 - 24V snap action electric lock output (max 30W). Pulse activated output on each opening. Lock type Logic = 3 - 24V magnet electric lock output (max 15W). Output Activated with gate closed.
	29		Lock type Logic = $4 - \text{Traction lock: active throughout the manoeuvre.}$
			Max.: 1 A for 1S, 0.2 A for the rest of the manoeuvre.
for + A	41	+ REF SWE	Limit switch common
s + 1 S V BTT	42	SWC 1 SWO 1	Motor 1 closing limit switch SWC1 (N.C.).
wit A40 Wir	43 44	SWC 2	Motor 1 opening limit switch SWO1 (N.C.).
Limit switch for Liu 250 BT NEGO SMARTBT A ELI BT A35 V + FCE ELI BT A40 + FCE 5 wires	45	SWO 2	Motor 2 opening limit switch SWO2 (N.C.).
or BT A A	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 VIRGO SMART BT A 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
A BT A BT A BT 18 12	42	SW 1	Limit switch control motor 1.
Limit switch for GIUNO ULTRA BT A20 GIUNO ULTRA BT A50 ES BT A12 ES BT A12 ES BT A12	43	SW 2	Limit switch control motor 2.
4 % t	40	- REF SWE	Encoder power supply, white cable
Limit switch for ELI BT A35 ELI BT A40	41	+ REF SWE	Encoder power supply, brown cable
ELL B16 66 ELL B16	42	ENC M1	Engine 1 encoder signal, green cable
		ENC M2	Engine 2 encoder signal, green cable

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	Terminal	Definition	Description
sories supply	50 51	24V- 24V+	Accessories power supply output.
Accessories power supply	52	24 Vsafe+	Tested safety device power supply output (photocell transmitter and safety edge transmitter). Output active only during operating cycle.
	60	Common	IC 1 and IC 2 inputs common
Commands	61	IC 1	Configurable command input 1 (N.O.) - Default START E. START E / START I / OPEN / CLOSE / PED / TIMER / TIMER PED Refer to the "Command input configuration" table.
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
s	71	STOP	The command stops movement. (N.C.) If not used, leave jumper inserted.
Safety 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.
Sai	73	SAFE 2	Configurable safety input 2 (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.
nna	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
Antenna	#	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 - MONOSTABLE RADIO CHANNEL output. The contact remains closed for 1s when the 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 control output. The contact remains closed for the time set at ይደ በይከት
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 - Not used
Aux logic= 8 - Not used
Aux logic= 9 - MAINTENANCE output. Contact stays closed once the value set for the Maintenance parameter is reached, to report that maintenance is required.
Aux logic= 10 - FLASHING LIGHT AND MAINTENANCE output. Contact stays closed while leaves are operating. If the value set for the Maintenance parameter is reached, once the gate has finished moving and the leaf is closed, the contact closes for 10 sec. and opens for 5 sec. 4 times to report that maintenance is required.
Aux Logic= 11 - Not used
Aux Logic= 12 - Not used
Aux Logic = 13 - CLOSED GATE STATUS output. The contact remains closed when the gate is closed.
AUX logic = 14 - BISTABLE RADIO CHANNEL output. The contact changes status (open-closed) when the radio channel is activated
AUX Logic = 15 - TIMED RADIO CHANNEL output. The contact remains closed for a programmable time when the Radio channel is activated (oULPUL E ITE). If the key is pressed again during this time, the time count restarts
Aux logic = 16 - OPEN GATE STATUS output. The contact remains closed when the gate is open.
Command input configuration
IC logic= 0 - Input configured as Start E. Operation according to 5とEP በወፈደበሳት logic. External start for traffic light control.
IC logic= 1 - Input configured as Start I. Operation according to 5とEP- มีระยา กิณะยีกะะ 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 5とEP-bሄ-5とEP በወሀደበስት 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.r, 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.

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SAFE logic= 4 - Input configured as Phot cl (photocell active during closing only) non tested (*). (fig.F, ref.1). Enables connection of devices not engineed 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 of the operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation of the operation o ses 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.

Radio channel control configuration
CH logic= 0 - Control configured as Start E. Operation according to 5とEP- ხყ-5とEP ითლისანი External start for traffic light control.
CH logic= 1 - Control configured as Start I. Operation according to 5EEP-by-5EEP RoveRnet logic. Internal start for traffic light control.
CH logic= 2 - Control configured as Open. The command causes the leaves to open.
CH logic= 3 - Control configured as Closed. The command causes the leaves to close.
CH logic= 4 - Control configured as Ped. The command causes the leaf to open to the pedestrian (partial) opening position. Operation according to SEEP-by-SEP ПацЕПас. logic
Logica CH= 5- Control configured as STOP. The command performs a STOP
CH logic= 6 - Control configured as AUX1. (**) The control activates the AUX1 output
CH logic= 7 - Not used
CH logic = 8- Radio command configured as AUX11 (**). The command activates the AUX11 output (only with expansion card)
CH logic= 9 - Control configured as AUX2. (**) The control activates the AUX2 output
CH logic= 10 - Control configured as EXPO1. (**) The control activates the EXPO1 output
CH logic= 11 - Control configured as EXPO2. (**) The control activates the EXPO2 output
CH logic = 12- Command set up as COURTESY LIGHT The command enables the light with bi-stable logic. At least one auxiliary output must be set as a courtesy light.

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

6) MOTOR WIRING Fig. E

7) SAFETY DEVICES

7.1) TESTED DEVICES Fig. F

7.2) CONNECTION OF 1 PAIR OF NON-CHECKED PHOTOCELLS FIG.C

7.3) CONNECTION OF 1 PAIR OF CHECKED PHOTOCELLS FIG. D

8) CALLING UP MENUS: FIG. 1

8.1) PARAMETERS MENU (PRr 部) (PARAMETERS TABLE "A")

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

8.3) RADIO MENU (c Rd lo) (RADIO TABLE "C")

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 (RUE oSEE)
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.

SOLENOID LOCK

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

8.7) INSTALLATION TEST PROCEDURE

- 1.
- Run the AUTOSET cycle (*) Check the impact forces: if they fall within the limits (**) skip to point 10 of the 2. procedure, otherwise Where necessary, adjust the speed and sensitivity (force) parameters: see 3.
- Where the speed and sensitivity (lotter) 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
 Check the impact forces again: if they fall within the limits (**) skip to point 10 of the procedure, otherwise
 Apply pressure-sensitive or electro-sensitive protective devices (such as a sensitive protective devices (such as a sensitive
- 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
- 10. Make sure all devices designed to detect obstacles within the system's operating
- Make suite and encession and encess
- protective devices anyway

8.8) LIMIT STOP ADJUSTMENT MENU (L.54, *Rd.1*) 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

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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 *a*+/-" 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).

8.9) STATISTICS MENU

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

8.10) PASSWORD MENU

Used to set a password for the board's wireless programming via the U-link

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

TABLE "A" - PARAMETERS MENUL - (28-80)

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) 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.

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

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

Impact forces can be reduced by using deformable edges.

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

TABLE "A" - PARAMETERS MENU - (PR- Rii)							
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.	
ŁcA	0	120	10		Automatic closing time [s]	Waiting time before automatic closing.	
PEd EcR	0	120	0		Automatic closure time from pedestrian manoeuvre [s]	Waiting time before automatic closure after a pedestrian manoeuvre, ONLY if different from 0. If the parameter is set to 0, the waiting time after a pedestrian manoeuvre is the same as the non-pedestrian manoeuvre.	
ErF. Lühtelr. E	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.	
£. L IGHE	30	300	90		Lighting time of the courtesy light [s]	Lighting duration of the courtesy light [s]	
oUEPUE E INE	1	240	10		Activation time of the timed output [s]	Timed radio channel output activation time in seconds	
oP. d ISt. SLoUd	0	100	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	100	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	0	100	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.	
PEd oPEn InG	10	100	100		Partial opening M1 [%]	Partial opening distance as a percentage of total opening following activation of PED pedestrian command.	
oP. ForcE	1	100	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 (**).	
cL5. ForcE	1	100	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 (**).	

Parameter	min.	max.	Default	Personal	Definition	Description
Suc PrESSUrE ForcE	0	100	100		Leaf pressure force on the closure limit-switch [%]	The force exerted by the leaf during the pressure on the closure limit-switch.
oP SPEEd	15	100	100		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	100	100		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.
SLou SPEEd	15	100	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 deceler- ation; values greater than 50% will be considered at 50%.
NR IntEnRocE	0	250	0		Programming number of operations for maintenance threshold [in hundreds]	Allows you to set a number of operations after which the need for maintenance will be reported on the AUX output configured as Maintenance or Flashing Light and Maintenance .

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

TABLE "B" - LOGIC MENU - (ಓಂದ್ ಸಿಂ)

Logic	Definition	Default	Cross out setting used		Optional	l extras			
			0	Motors not active					
			1	NOT MANAGED					
			2	NOT MANAGED					
			3	IGEA BT					
			4	NOT MANAGED					
			5	NOT MANAGED					
			6	SUB BT					
	Motor type		7	KUSTOS BT A - PHOBOS BT					
Notor type	(Set the type of motor	0	8	GIUNO ULTRA BT A 20 - GIU VIRGO SMART BT A - 5 wire:					
	connected to the board).		10	VIRGO SMART BT A - 3 wires					
	bourd).		10	E5 BT A18					
			12	E5 BT A12					
			12	ELI BT A40 + FCE					
			14	ELI BT A35 V + FCE					
			15	ELI BT A40					
			16	ELI BT A35					
			17	PHOBOS VELOCE BT B35					
			0	Logic not enabled					
			1	Switches automatic closing	on				
ŁcA	Automatic Closing Time	0	2	It activates automatic closure also after a reversal due to an obstacle when closing. In case of a reversal during opening, it retries opening after 2 seconds; if it finds an obstacle during opening 4 consecutive times, it closes. Configuration can only be activated with the E5 BT A12 motor (motor type 12). () The logic can only be used with pedestrian doors the energy of which is limited to within 1.69J.					
	Power Down		0	Power Down DEACTIVATED, i.e. the power supply of the accessories is always present.					
PSRuE	Power Down activation	1	1	Power Down ACTIVE, i.e. the power supply of the accessories is deactivated with the gate stopped.					
			0 Both U-Link connectors support the new U-Link2.0 protocol.				5 11		
UL INH I	Activates ULink Protocol	0	1	Enabling of the U-Link protocol (previous version) on the optional card connector 1. The previous version of the U-Link protocol can be activated on connector 1.					
505) <u>)</u> 5			0	Logic not enabled					
FRSE cl. <u>s</u>	Fast closing	0	1	Closes 3 seconds after the photocells are cleared before waiting for the set TCA to elapse.					
			0	No operative change.					
	Detter f	0	1	Total opening and waiting for the power to come back on.					
bRtt conf lû	Battery config.		2	Partial opening based on the "partial opening" parameter, and waiting for the power to come back on.					
			3	Total closure and waiting fo	r the power to come back on.				
			0	Inputs configured as Start E, Start I, Ped operate with 4-step logic.		step-by-st	ep mov.		
				Inputs configured as Start		2 STEP	3 STEP	4 STEP	
	Step-by-step movement		1	E, Start I, Ped operate with 3-step logic. Pulse	CLOSED			OPENS	
SEEP-BY-SEEP				during closing reverses	DURING CLOSING	OPENS	OPENS	STOP	
NouENnt		0		movement.	DURING CLUSING			STOPS	
				Inputs configured as Start	OPEN	CLOSES	CLOSES	CLOSES	
			2	E, Start I, Ped operate with 2-step logic. Movement	DURING OPENING		STOP + TCA	STOP + TCA	
				reverses with each pulse.	AFTER STOP	OPENS	OPENS	OPENS	

Logic	Definition	Default	Cross out setting used	Optional extras
		1	0	The flashing light comes on at the same time as the motor(s) starts.
PrE-RLRrN	Pre-alarm	0	1-10	The pre-alarm function is activated: The flashing light comes on before the motor(s) starts. The value of the parameter indicates the duration of the pre-flashing in seconds.
			0	Pulse operation.
			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.
hold-to-rUn	Deadman	0	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.
			3	Dead-man function during closing. The input 61 is configured as OPEN UP. The input 62 is configured as CLOSE UP. The opening manoeuvre occurs automatically, the closing manoeuvre continues until the control button (CLOSE) is pressed.
			0	WARNING: safety devices are not active during the closure. Pulse from inputs configured as Start E, Start I, Ped has effect during opening.
oPEn IbL	Block pulses during opening	0	1	Pulse from inputs configured as Start E, Start I, Ped has enect during opening. Pulse from inputs configured as Start E, Start I, Ped has no effect during opening.
EcR IBL	Block pulses during	0	0	Pulse from inputs configured as Start E, Start I, Ped has effect during TCA pause.
	TCA		1	Pulse from inputs configured as Start E, Start I, Ped has no effect during TCA pause.
cloSE Ibl	Block pulses during closing	0	0	Pulse from inputs configured as Start E, Start I, Ped has effect during closing. Pulse from inputs configured as Start E, Start I, Ped has no effect during closing.
	closing		0	Logic not enabled
rAN 6Lou c. oP	Hammer during opening	0	1	Before opening completely, the gate pushes for approx. 2 seconds as it closes. This allows the sole- noid 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 closing	0	0	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.
			0	Logic not enabled
bLoc PErS 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.
				Movement is stopped only when the closing limit switch trips: in this case, the tripping of the closing
PrESS Suc	Closing limit switch pressure	0	0	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.
ιcE	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.
Not. on	Number of active	2	1	Only motor 1 active (1 leaf).
	motors	<u> </u>	2	Both motors are activated (2 leaves).
			0	See Fig.E0
InSERLERE Ion REEFORE IVE			1	See Fig.E1 See Fig.E2
	Installation alternative		3	See Fig.E3
		0	4	See Fig.E4
			5	See Fig.E5
			6	See Fig.E6
			7	See Fig.E7
	Configuration of		0	Input configured as Phot (photocell).
i SRFE	Configuration of safety input SAFE 1. 72	0		

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Log	gic	Definition	Default	Cross out setting used	Optional extras
				4	Input configured as Phot cl (photocell active during closing only).
				5	Input configured as Phot cl test (tested photocell active during closing only).
		Configuration of		6	Input configured as Bar, safety edge.
2 5	RFE	safety input SAFE 2. 74	6	8	Input configured as Bar, tested safety edge. Input configured as Bar 8k2. (Inactive on SAFE 2,11,13).
		/4			Input configured as Bar OP, safety edge with inversion active only while opening. If while closing, the move-
				9	ment stops.
		Configuration of		10	Input configured as Bar OP TEST, safety edge tested with inversion active only while opening. If while closing, the movement stops.
Only with an	IO SRFE	safety input SAFE 10. 77	15	11	Input configured as Bar OP 8k2, safety edge with inversion active only while opening. If while closing, the movement stops. (Inactive on SAFE 2,11,13).
expansion card. If you do not	II SRFE	Configuration of safety input SAFE 11. 78	15	12	Input configured as Bar CL, safety edge with inversion active only while closing. If while opening, the move- ment stops.
use the expansion card, leave	12 SRFE	Configuration of safety input SAFE 12. 79	15	13	Input configured as Bar CL TEST, safety edge tested with inversion active only while closing. If while opening, the movement stops.
the default setting (15)	13 SRFE	Configuration of safety input SAFE 13.	15	14	Input configured as Bar CL 8k2, safety edge with inversion active only while closing. If while opening, the movement stops. (Inactive onSAFE 2,11,13).
		80	15	15	Input configured as deactivated. To be used without the expansion card. (Not active on Safe 1,2).
		6		0	Input configured as Start E.
1	lc	Configuration of command input IC 1.	0	1	Input configured as Start I.
1	12	61	Ŭ	2	Input configured as Open.
		Carlon it i		3	Input configured as Close.
5	lc	Configuration of command input IC 2.	4	4	Input configured as Ped.
		62		5	Input configured as Timer.
Only with an	10 lc	Configuration of command input IC 10. 64	2		
expansion - card	1 1 Ic	Configuration of command input IC 11. 65	3	6	Input configured as Timer Pedestrian.
		Configuration of the		0	Radio control configured as START E.
10	:h	1st radio channel	0	1	Radio control configured as Start I.
		command		2	Radio control configured as Open.
		Configuration of the		3	Radio control configured as Close
20	:h	2nd radio channel command	9	4	Radio control configured as Ped
		command		5	Radio control configured as STOP
30	. L	Configuration of the 3rd radio channel	2	6	Radio control configured as AUX1 ** Not used
50	:n	command		8	Radio control configured as AUX11 ** (only with an expansion card)
				9	Radio control configured as AUX2 **
		Configuration of the		10	Radio control configured as EXPO1 **
Чс	:h	Configuration of the 4th radio channel	5	11	Radio control configured as EXPO2 **
		command		12	Control configured as COURTESY LIGHT The command enables the light with bi-stable logic. At least one auxiliary output must be set as a courtesy light
(2)	101	Configuration of		0	Output configured as a monostable radio channel
IH	ШН	Configuration of AUX 1 output. 20-21	6	1	Output configured as SCA, gate open light.
20		Configuration of	6	2	Output configured as Courtesy Light command.
281		AUX 2 output. 26-27	0	3	Output configured as Zone Light command. Output configured as Stair Light
		Configuration of		5	Output configured as stair Light Output configured as Alarm
	IORUH	Configuration of AUX 10 output. 22-23	3	6	Output configured as Flashing light
				7	Not used
				8	Not used
Only with				9	Output configured as Maintenance
Only with an expansioncard			10	Output configured as Flashing Light and Maintenance.	
	(10).01	Configuration of	1	11	Not used
	THUH	AUX 11 output. 24-25	1	12 13	Not used Output configured as closed Gate Status
				13	Output configured as closed Gate Status Output configured as a Bistable radio channel
			15	Output configured as a Timed radio channel	
				16	Output configured as open Gate Status
				0	Output configured for 12V snap-action electric lock.
				1	Output configured for 12V magnet electric lock. Max.0.5A Power Down is not active with this setting
		Lock type.	_	2	Power Down is not active with this setting Output configured for 24V snap-action electric lock.
Lo	cH	28-29	0		
				3	Output configured for 24V magnet electric lock. Max.0.25A Power Down is not active with this setting
				4	Traction lock: active throughout the manoeuvre. Max.: 1 A for 1S, 0.2 A for the rest of the manoeuvre.
		1	1	ι	

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INSTALLATION MANUAL

Prot. LEu Setting the protection level 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 required to access the programming menus (1-12-13-14) of a transmitte been memorized in standard mode via the radio menu. Press within 10 sec. the hidden key and normal key (T1-12-T3-T4) of a transmitte been memorized in standard mode via the radio menu. Press within 10 sec. the hidden key and normal key (T1-12-T3-T4) of a transmitte been memorized in standard mode via the radio menu. Press within 10 sec. the hidden key and normal key (T1-12-T3-T4) of a transmitte been memorized in standard mode via the radio menu. Press within 10 sec. the hidden key and normal key (T1-12-T3-T4) of a transmitte been memorized in standard mode via the radio menu. Press within 10 sec. the hidden key and normal key (T1-12-T3-T4) of a transmitte been memorized in standard mode via the radio menu. Press within 10 sec. the hidden key and normal key (T1-12-T3-T4) of a transmitter by repeating the previous step. C - Enables wireless automatic addition of replays. Enables programmed Replays to be added to the receiver's memory. D - The board's parameters can be edited via the U-link network A - You are prompted to enter the password to access the programming menu The default password is 1234. No change in behaviour of functions B - C - D from 0 logic setting A - You are prompted to enter the password to access the programming menu The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wir	uire access: ter that has already itter to be memorized. nter other new tran-
Prot. LEu Setting the protection level 0 1 A - You are prompted to enter the password to access the programming menu The default password is 1234. No change in behaviour of functions B - C - D from 0 logic setting 2 Not used	IS
Not used A - You are promoted to enter the password to access the programming menu	
 A - You are prompted to enter the password to access the programming menu The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wireless automatic addition of Replays is disabled. 	
Function C remains unchanged with respect to function 0	15
4 A - You are prompted to enter the password to access the programming menu The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wireless automatic addition of Replays is disabled. D - The option of editing the board's parameters via the U-link network is disable Transmitters are memorized only using the relevant Radio menu.	us bled.
Serial mode 0 Standard SLAVE: board receives and communicates commands/diagnostics/et	
5Er IRL Node (Identifies now board is configured in a BFT network connection). 1 Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PE boards.	ED, STOP) to other
Rddr E55 Address 0 [] Identifies board address from 0 to 119 in a local BFT network connection. (see U-LINK OPTIONAL MODULES section)	
Push&Go (Only for 0 Logic not active	
E5 BT A12) 1 Manually pushing the stopped leaf toward the opening direction determines t	the automatic opening.
0 Input configured as Start E command. 1 Input configured as Start I command.	
2 Input configured as Start command.	
3 Input configured as Close command.	
4 Input configured as Ped command.	
5 Input configured as Timer command.	
6 Input configured as Timer Pedestrian command.	
7 Input configured as Phot (photocell) safety.	
8 Input configured as Phot op safety (photocell active during opening only).	
9 Input configured as Phot cl safety (photocell active during closing only). Configuration of 10 Input configured as Bar safety (safety edge).	
	opening, if while closing
I EHP I input-output expan- sion board.	
1-2 12 the movement stops. 13 Input configured as Phot test safety, tested photocell. Input 3 (EXPI2) on input/c is switched automatically to safety device test input, EXPFAULT1.	
14 Input configured as Phot op test safety, tested photocell active only while ope input/output expansion board is switched automatically to safety device test i	
15 Input/output expansion board is switched automatically to safety device test i input/output expansion board is switched automatically to safety device test i	
1 ⁻³ input/outpūt expansion board is switched automatically to safety device test i 16 Input configured as Bar safety, tested safety edge. Input 3 (EXPI2) on input/out switched automatically to safety device test input, EXPAULT1.	
17 Input configured as safety Bar OP test, safety edge with inversion active only closing the movement stops. Input 3 (EXPI2) on input/output expansion board is to safety device test input, EXPFAULT1.	while opening, if while switched automatically
Input configured as safety Bar CL test, safety edge with inversion active only wh ning the movement stops. Input 3 (EXPI2) on input/output expansion board is to safety device test input, EXPFAULT1.	nile closing, if while ope- switched automatically
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.	
3 Input configured as Close command. 4 Input configured as Ped command.	
E linut configured as Timer command	
EXPl2 input 6 Input configured as Timer Pedestrian command.	
2 EHP I on input-output 0 7 Input configured as Phot (photocell) safety.	
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 Safety (safety edge).	popping if while starting
11 Input configured as safety Bar OP, safety edge with inversion active only while of the movement stops.	
12 Input configured as safety Bar CL, safety edge with inversion active only while on the movement stops.	ciosing, if while opening
O Output configured as 2 nd Radio Channel. Configuration of 1 0 0 to the two formulas SCA (solutions of balance).	
EXPÕ1 output	
I EHPo on input-output expansion board 11 2 Output configured as Courtesy Light command. 3 Output configured as Zone Light command. 3 Output configured as Zone Light command.	
4-5 4 Output configured as 2016 Light configur	

Logic	Definition	Default	Cross out setting used	Optional extras
			5	Output configured as Alarm.
			6	Output configured as Flashing light.
			7	Output configured as Latch.
			8	Output configured as Magnetic lock.
	Configuration of	11	9	Output configured as Traffic Light control with TLB board.
2 EHPo	EXPO2 output on input-output expansion board 6-7		10	Output configured as Flashing Light and Maintenance.
			11	Output configured as Traffic Light control with TLB board.
			12	Not used
			13	Not used
			14	Output configured as closed Gate Status
			15	Output configured as Bistable Radio Channel
			16	Output configured as timed Radio Channel
ErRFF Ic L IGHE	Traffic light pre-fla-	0	0	Output configured as open Gate Status
PrEFLRSh InG	shing	0	1	Red lights flash, for 3 seconds, at start of operation.
ErAFF IC LIGHE rEd LANP ALUAYS	Steadily lit red light	0	0	Red lights off when gate closed.
rco Lniir nLunss	Steadiny int red light	U	1	Red lights on when gate closed.

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

Logic	Description
Rdd Ich	Add 1ch Key associates the desired key with the 1nd radio channel command.
Rdd2ch	Add 2ch Key associates the desired key with the 2nd radio channel command.
Rdd3ch	Add 3ch Key associates the desired key with the 3nd radio channel command.
Rdd4ch	Add 4ch Key associates the desired key with the 4nd radio channel command.
ErRSE 128	Erase List WARNING! Erases all memorized transmitters from the receiver's memory.
ErRSE (Eliminates individual radio control Removes a radio control (if clone or replay is disabled) To select the radio control to be deleted, enter the position or press a button on the radio control to be deleted (the position is displayed)



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