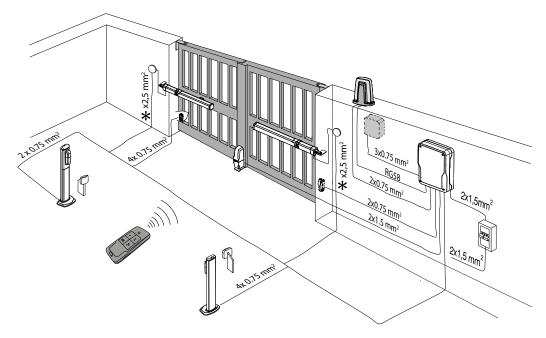
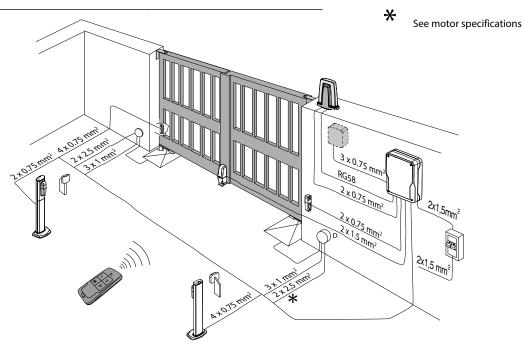
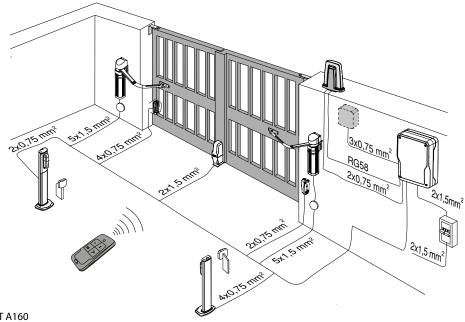
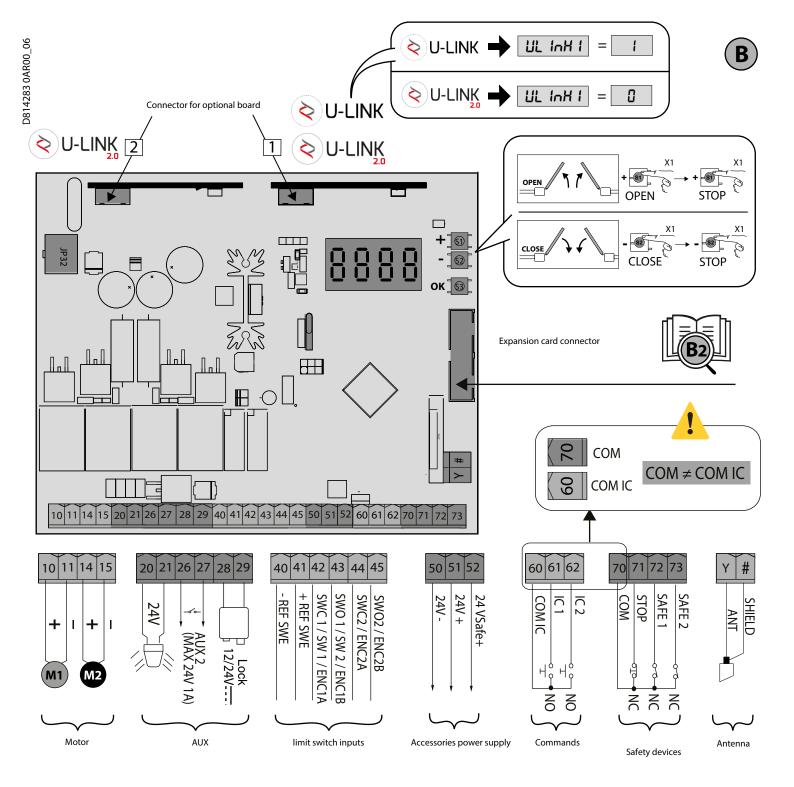
TUBE ARRANGEMENT

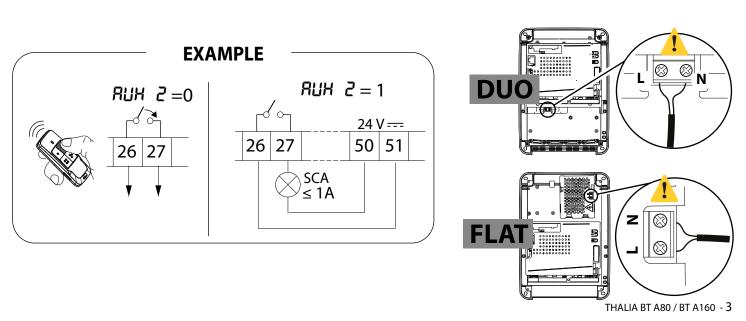


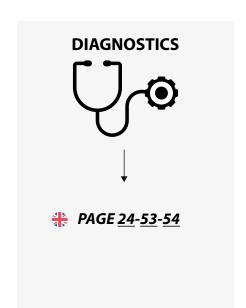


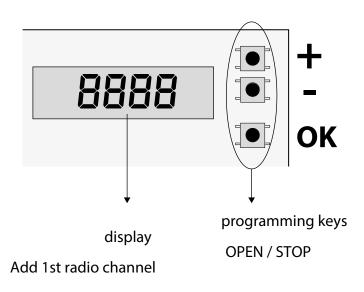


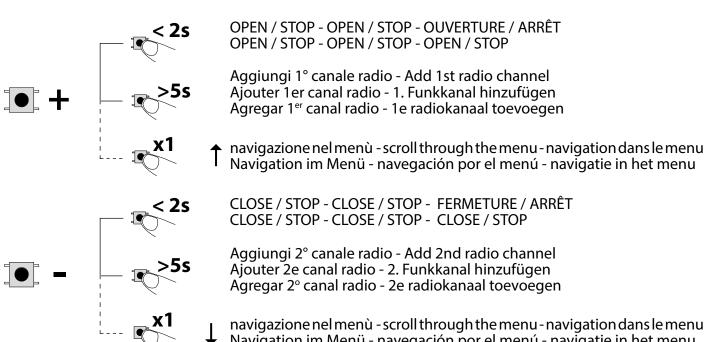




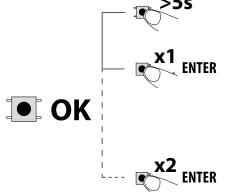








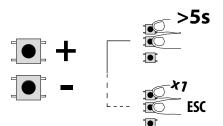
navigazione nel menù - scroll through the menu - navigation dans le menu Navigation im Menü - navegación por el menú - navigatie in het menu



avvio autoset - start autoset - lancement de l'autoset Autoset-Start - inicio autoset - autoset starten

avvio procedura guidata / conferma selezione start guided procedure / confirm selection lancement de la procédure guidée / confirmer la sélection Start des Assistenten / Auswahl bestätigen inicio del asistente / confirmar selección wizardprocedure starten / bevestig de selectie

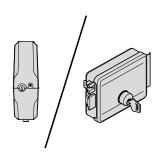
ingresso menù avanzato - enter advanced menu entrée menu avancé - Zugang zum erweiterten Menü entrada menú avanzado - ingang uitgebreid menu

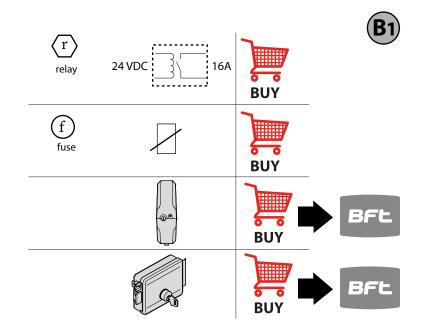


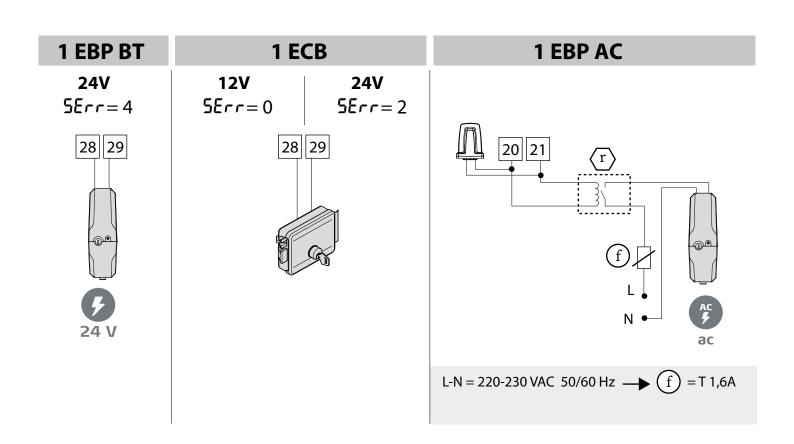
cancellazione trasmettitori - transmitters cancellation annulation des émetteurs - löschen der sender eliminación transmisores - wissen zenders

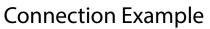
uscita menù - exit menu- sortie menu Menüabbruch - salida menú - uitgang menu

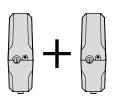
Connection Example

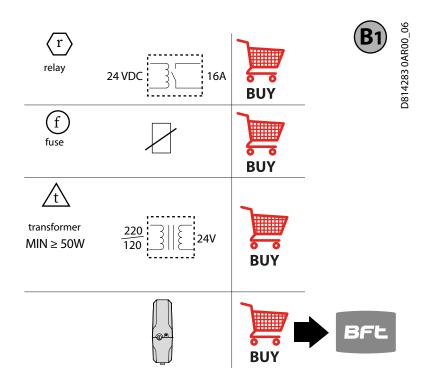






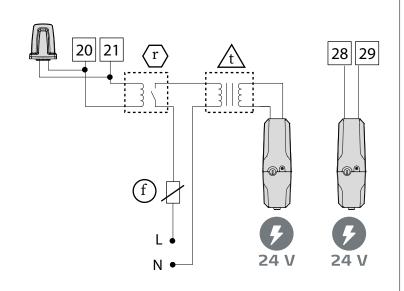






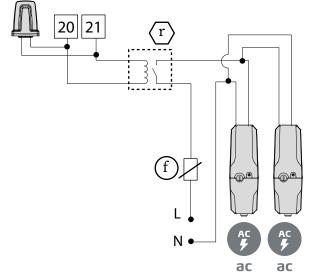
2 EBP BT

5Err=4



L-N = 220-230 VAC 50/60 Hz \longrightarrow f = T 1,6A

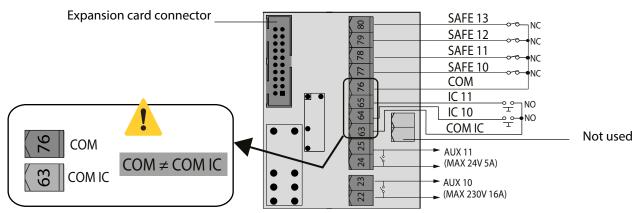
2 EBP AC



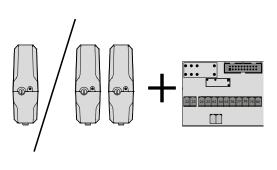
L-N = 220-230 VAC 50/60 Hz \longrightarrow f = T 3,15A

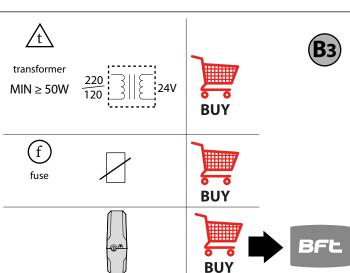
EXPANSION BOARD







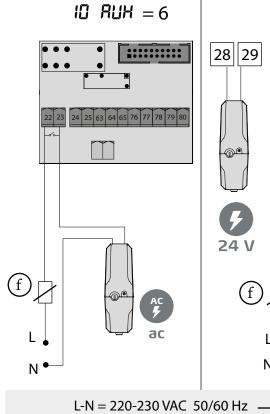


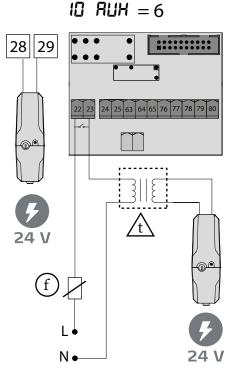




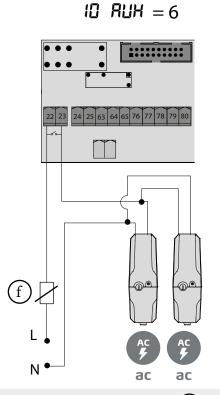
2 EBP BT 5ε_{rr=4}

2 EBP AC

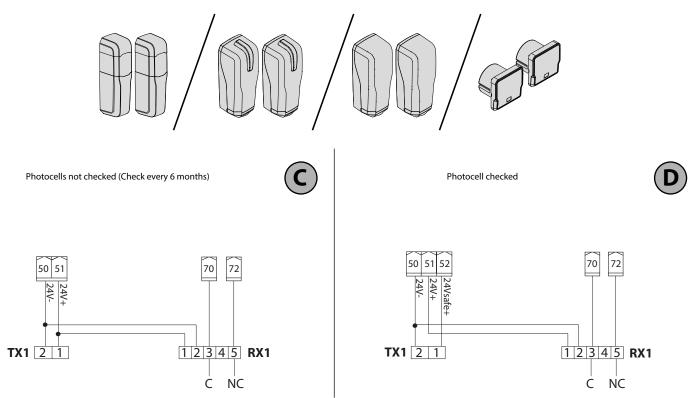




→ (f) = T 1,6A



SAFE 1 Connection Example



ENGLISH

IT IS NECESSARY TO FOLLOW THIS SEQUENCE OF ADJUSTMENTS:

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

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

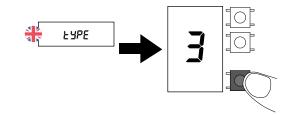
- If the simplified menu is used:
 In GIUNO ULTRA BT A 20 GIUNO ULTRA BT A 50 E5 BT A18 E5 BT A12 motors: phase 1 (end stop adjustment) is included in the simplified menu.
 In other motors: phase 1 (end stop adjustment) must be carried out before activating the simplified menu

MOTOR COMPATIBILITY

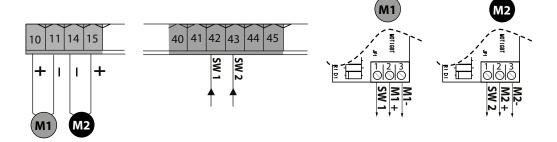
	ELI 250 BT	×
	LUX BT	×
	LUX G BT	×
	IGEA BT	> 01/03/2022 *
	SUB BT ✓	
	PHOBOS BT A 25/40 ☐	Ø
THALIA BT A80/ BT A160	PHOBOS BT B 25/40 ☑	Ø
0	PHOBOS N BT	⊘
	KUSTOS BT A 25/40	Ø
8888	KUSTOS BT B 25/40	
	GIUNO ULTRA BT A 20	
	GIUNO ULTRA BT A 50	
	VIRGO SMART BT A	
	<u>E5 BT A18</u>	
O CONTROL OF THE PROPERTY OF T	<u>E5 BT A12</u>	
Ton not look for	ELI BT A40 + FCE	> 01/04/2022 *
	ELI BT A40	> 01/04/2022 *
	ELI BT A35 V + FCE	> 01/04/2022 *
	ELIBTA 35 V	> 01/04/2022
	PHOBOS VELOCE BT B35	Ø

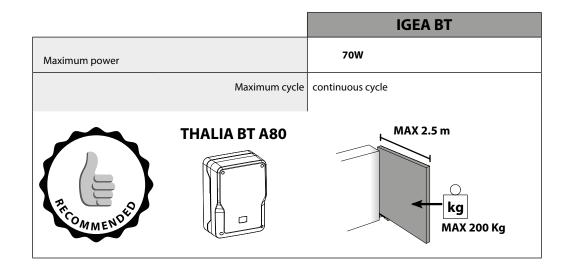
^{*}engine only compatible if produced after this date



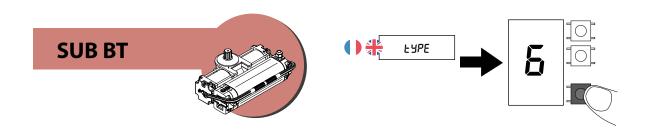


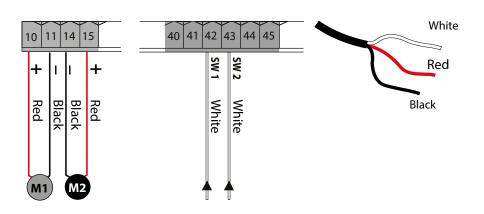


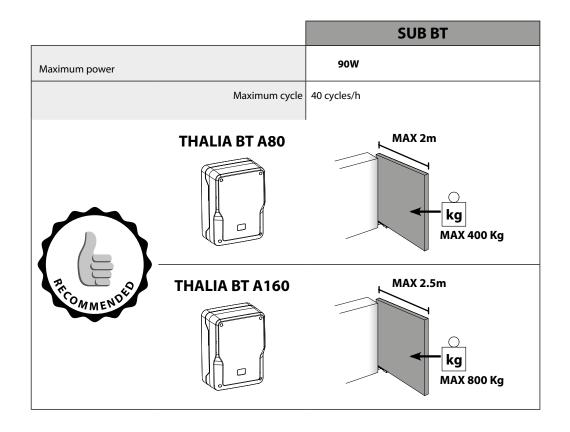


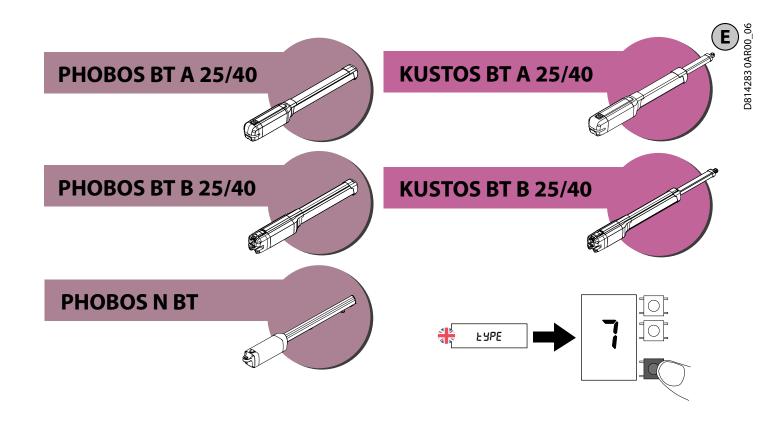


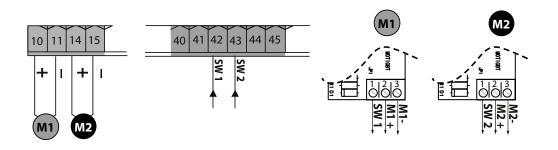


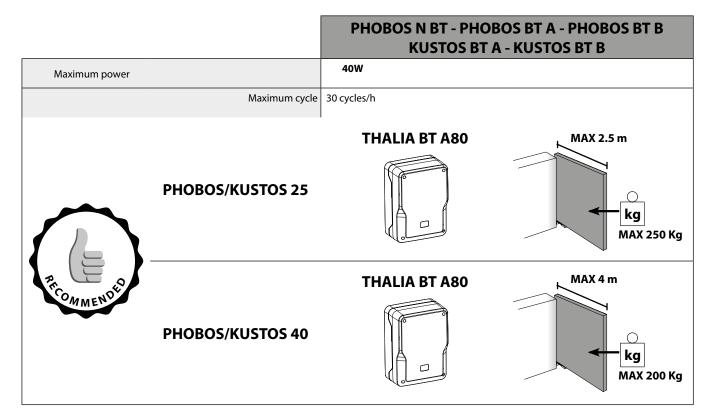






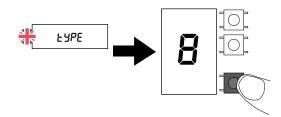


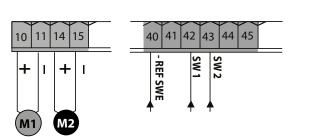


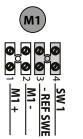


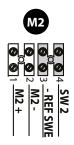












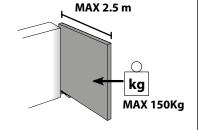
GIUNO	ULTRA	BT A 20
GIUNO	ULTRA	BT A 50

Maximum power	90W
Maximum cycle	30 cycles/h

GIUNO ULTRA BT A 20

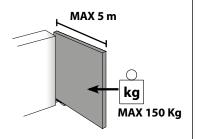






GIUNO ULTRA BT A 50

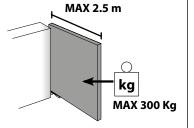




GIUNO ULTRA BT A 20

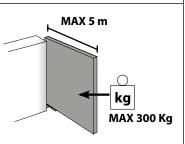


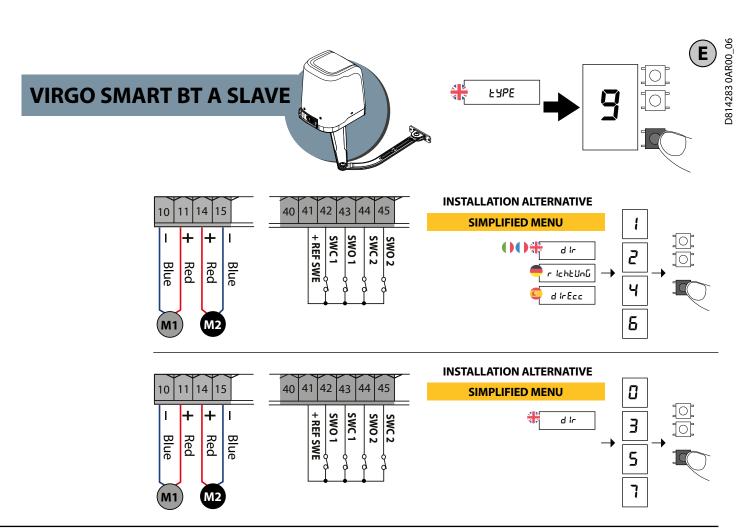


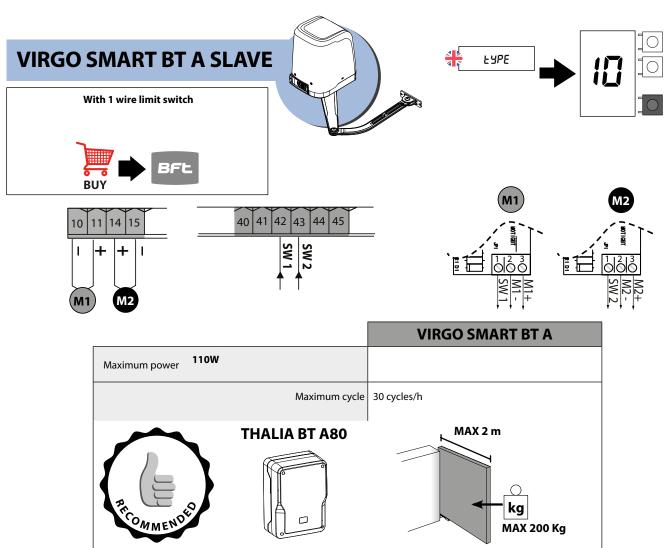


GIUNO ULTRA BT A 50



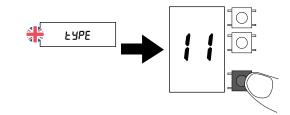


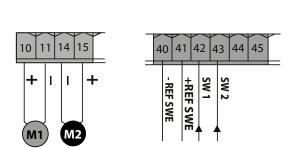


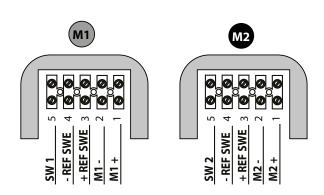


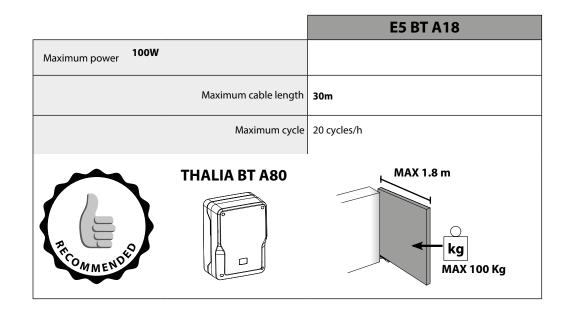




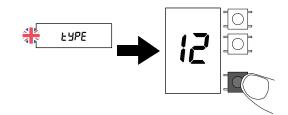




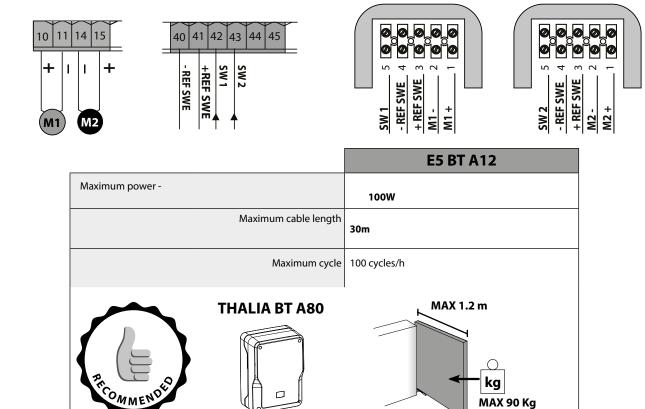








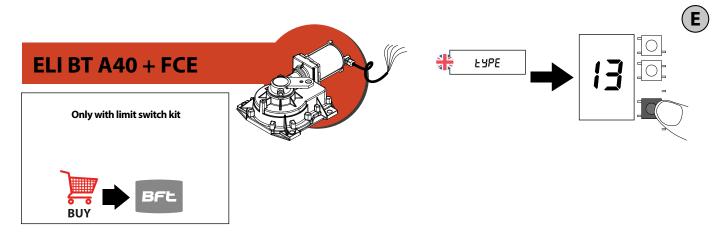
(M1)



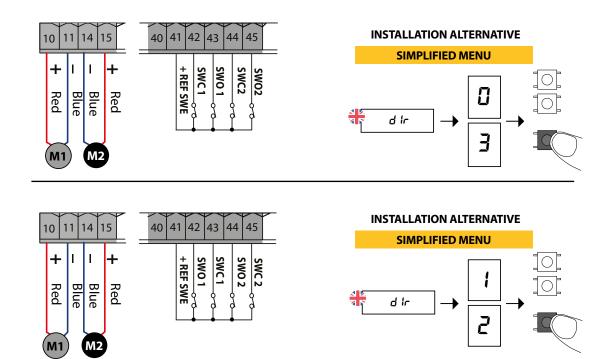
ON pedestrian gates, adjust the speed so as to limit the energy of the leaf within a maximum value of 1.69 Joule (as required by the EN16005 regulation).
Use the table to determine the minimum closing times between 90° and 10°.

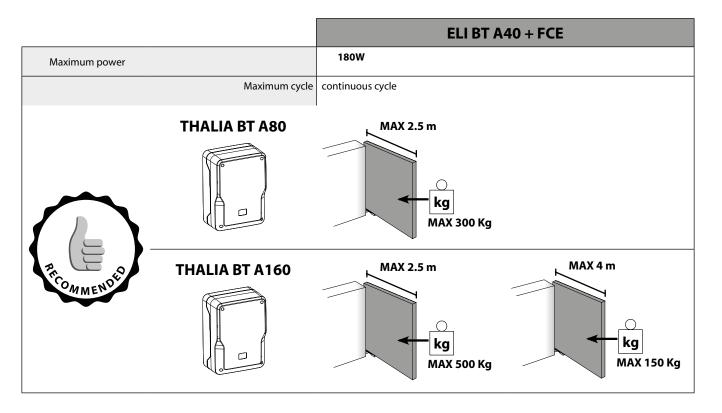
Table with the leaf manoeuvre minimum times											
Leaf width (mm)	Leaf weight (kg)										
	50 60 70 80 90										
750 mm	3,0 s 3,0 s 3,0 s 3,5 s										
850 mm	3,0 s 3,0 s 3,5 s 3,5 s 4,0 s										
1000 mm	3,5 s	3,5 s 3,5 s 4,0 s 4,0 s 4,5 s									
1200 mm	4,0 s	4,5 s	4,5 s	5,0 s	5,5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

IMPORTANT: Low-energy operation is not considered a proper safety measure if the leaf is used by elderly, invalid, disabled people. In this case, provide additional safety measures, according to the provisions of the legislation in force and your local on-site risk assessment.

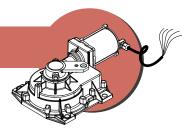


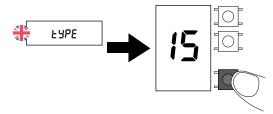




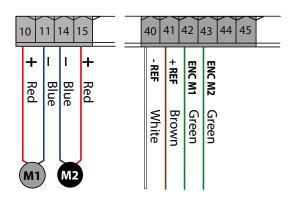


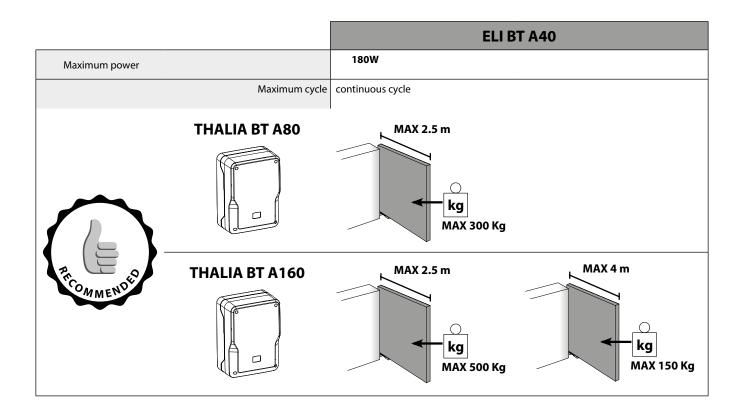




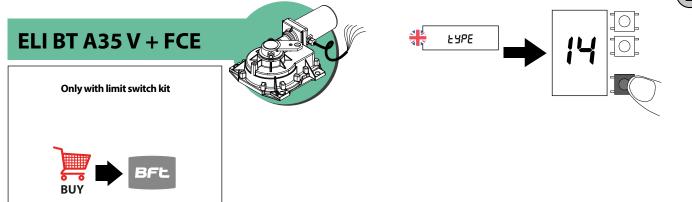




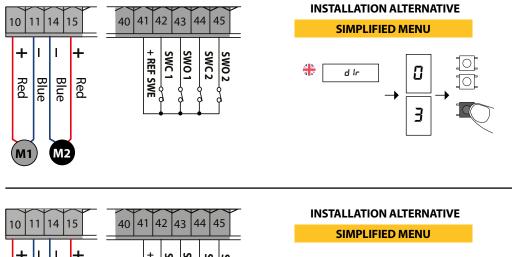


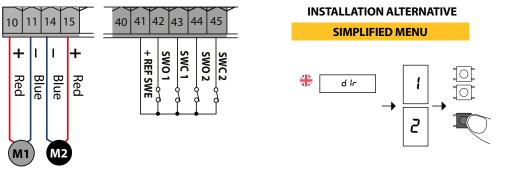


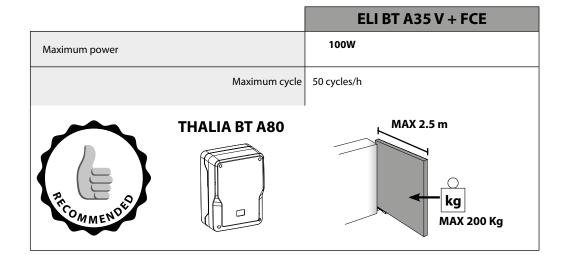






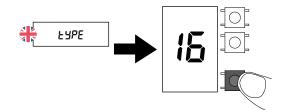




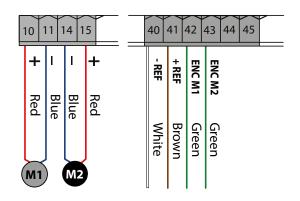


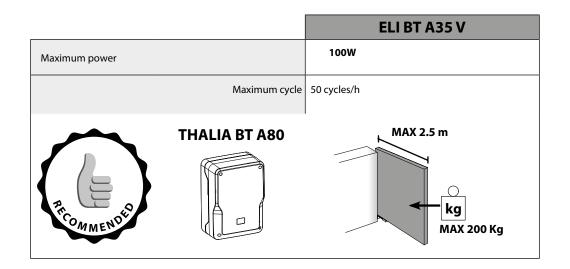


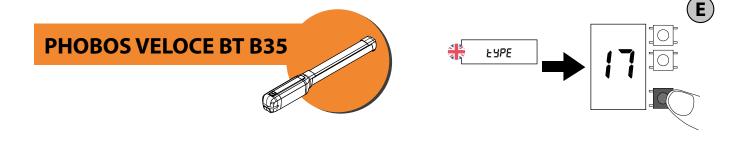


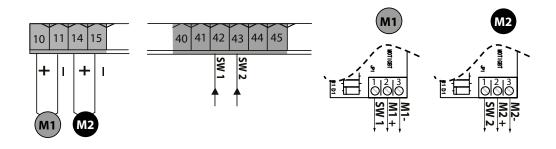


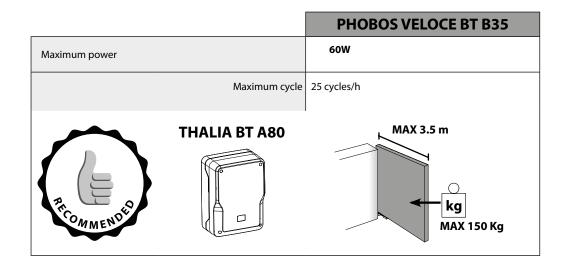




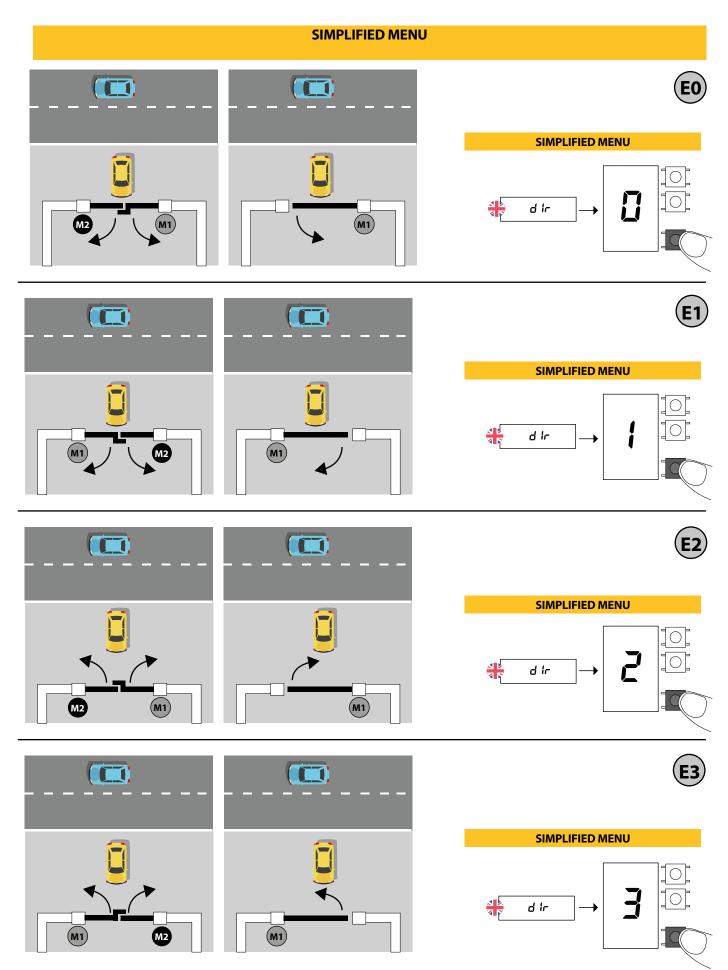




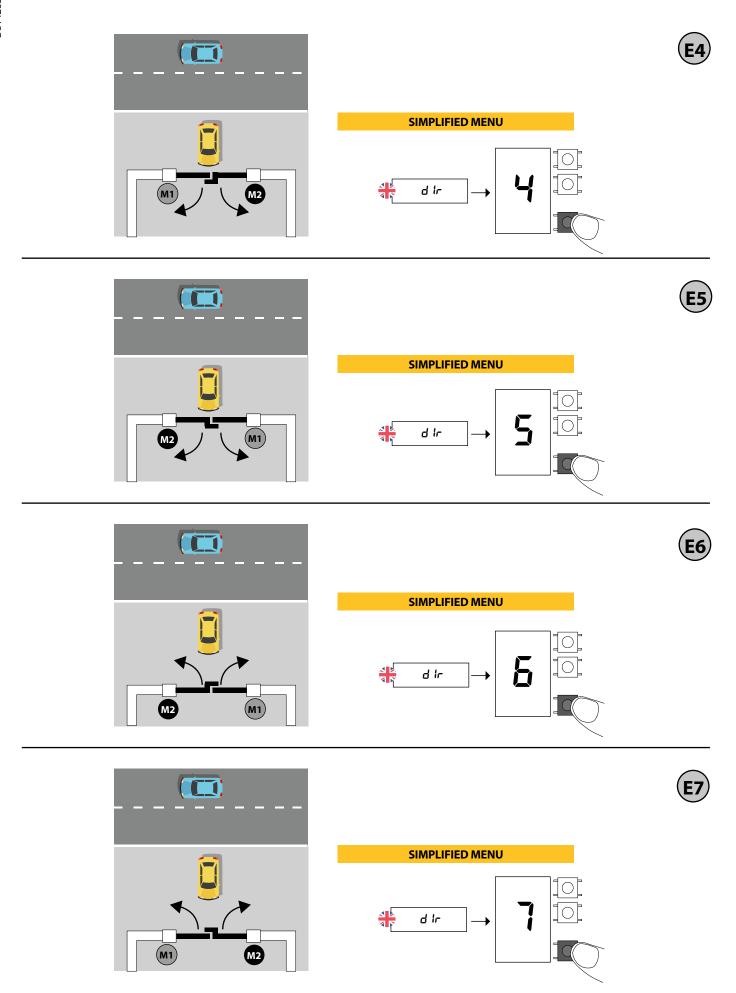




INSTALLATION ALTERNATIVES



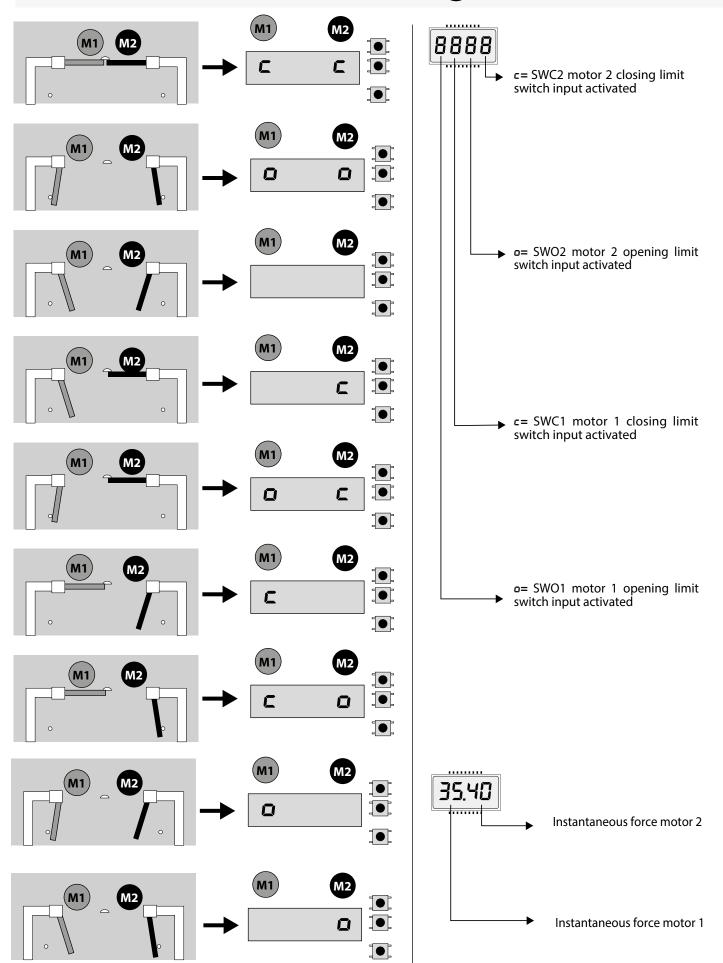
ONLY MOTORS WITH BUILT-IN SWITCHBOARD



DIAGNOSTICS



D814283 0AR00_06



SAFE1 - SAFE2

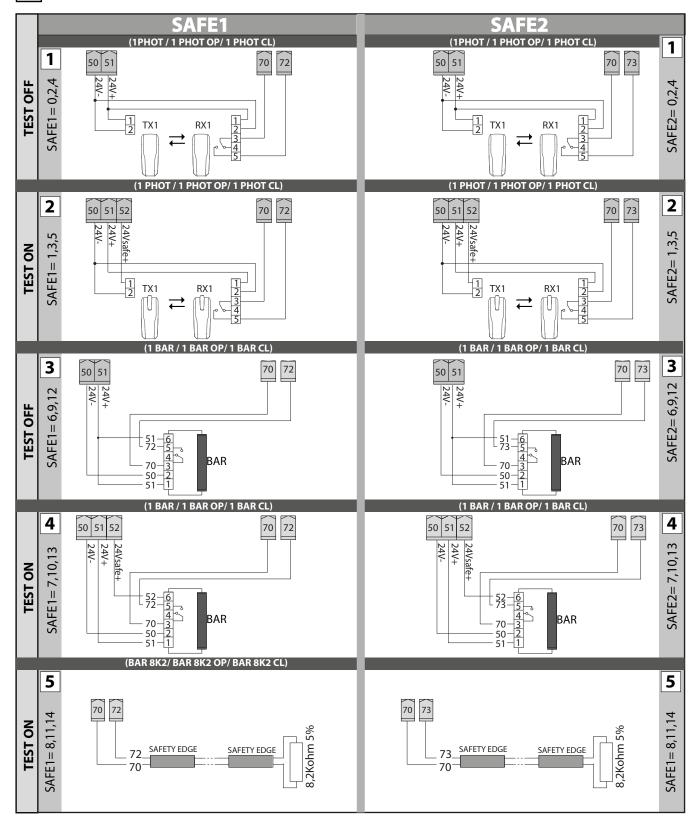


TEST ON

Photocell checked

TEST OFF

Photocells not checked (Check every 6 months)



SAFE10 - SAFE11

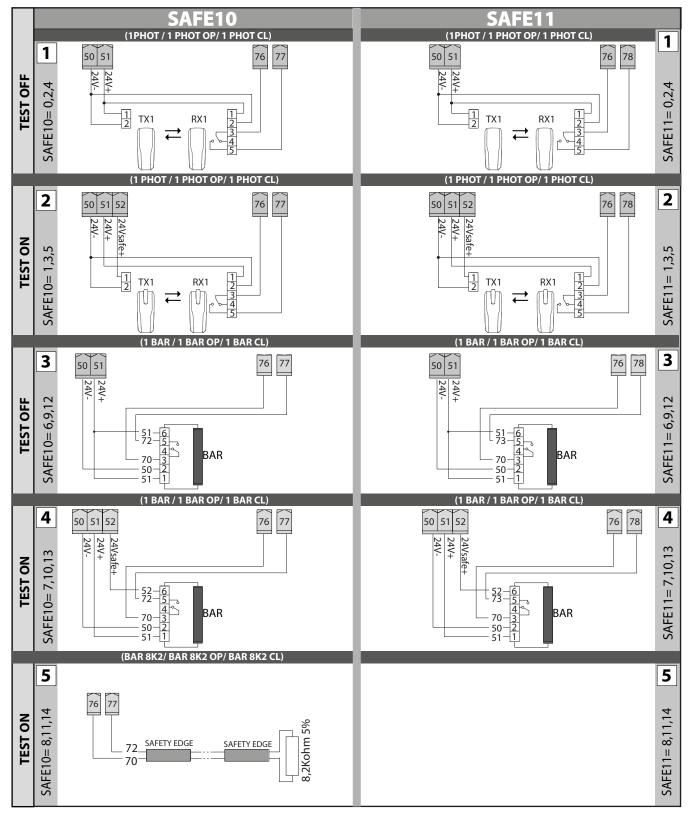
ONLY WITH AN EXPANSION CARD

TEST ON

Photocell checked

TEST OFF

Photocells not checked (Check every 6 months)



SAFE12 - SAFE13

ONLY WITH AN EXPANSION CARD

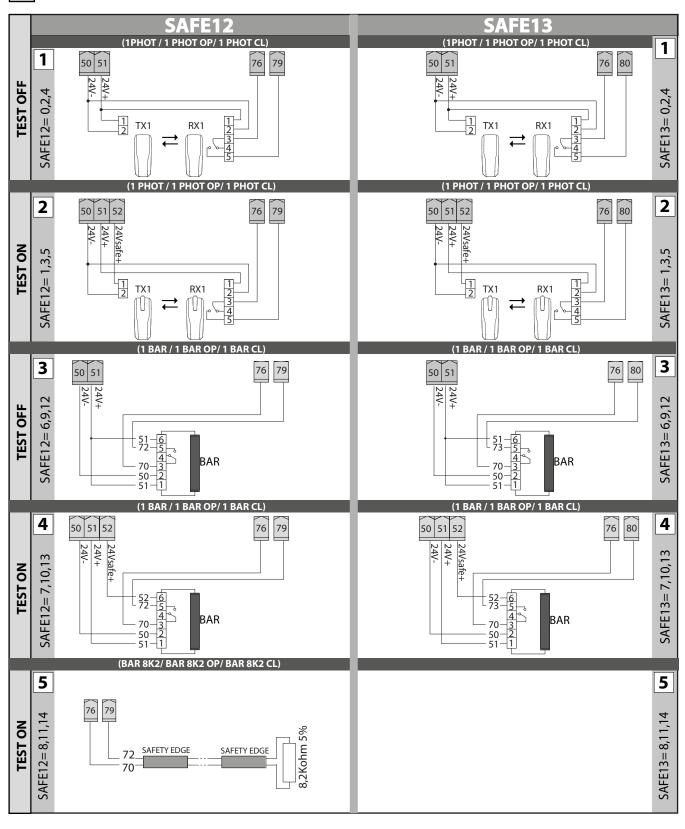


TEST ON

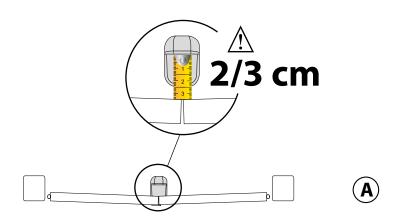
Photocell checked

Photocells not checked (Check every 6 months)

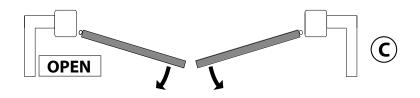
TEST OFF

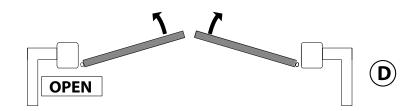






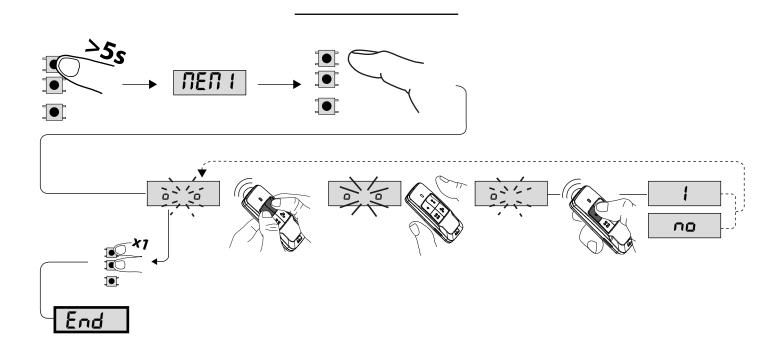




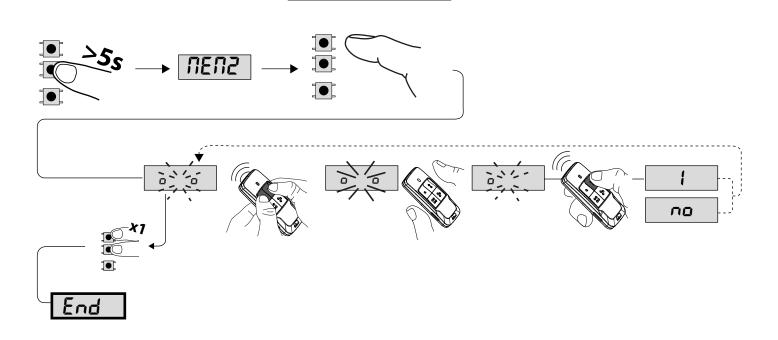


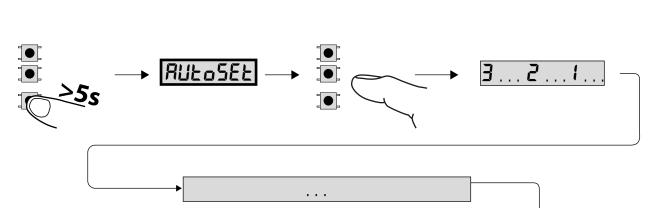


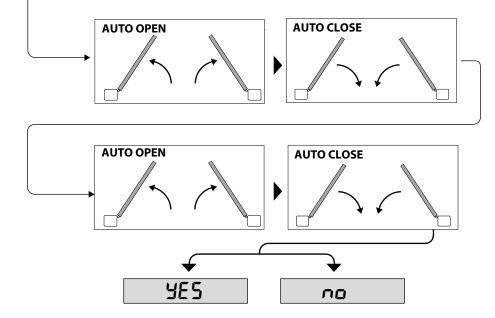
START



2 CH RADIO







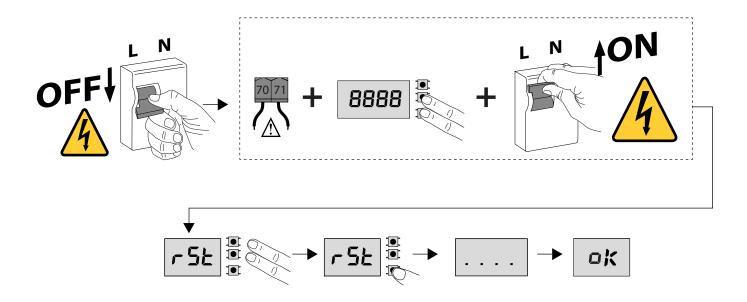
- After adjusting the end stops or modifying their position, a new autoset cycle must be performed.



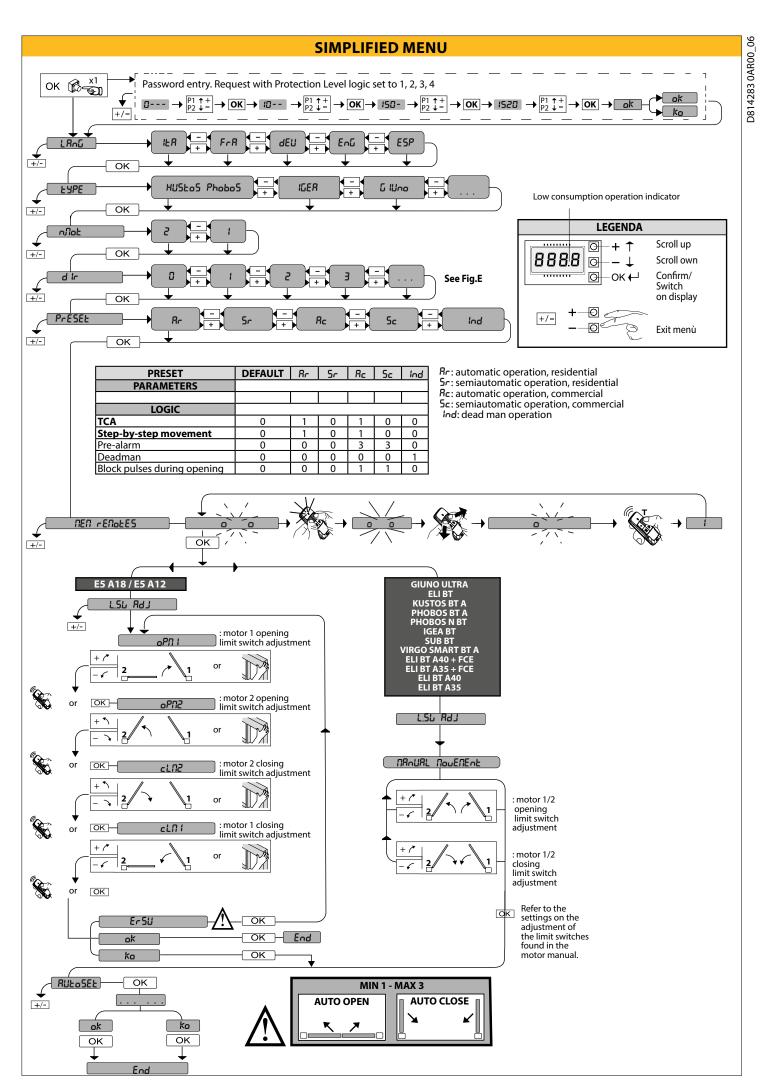


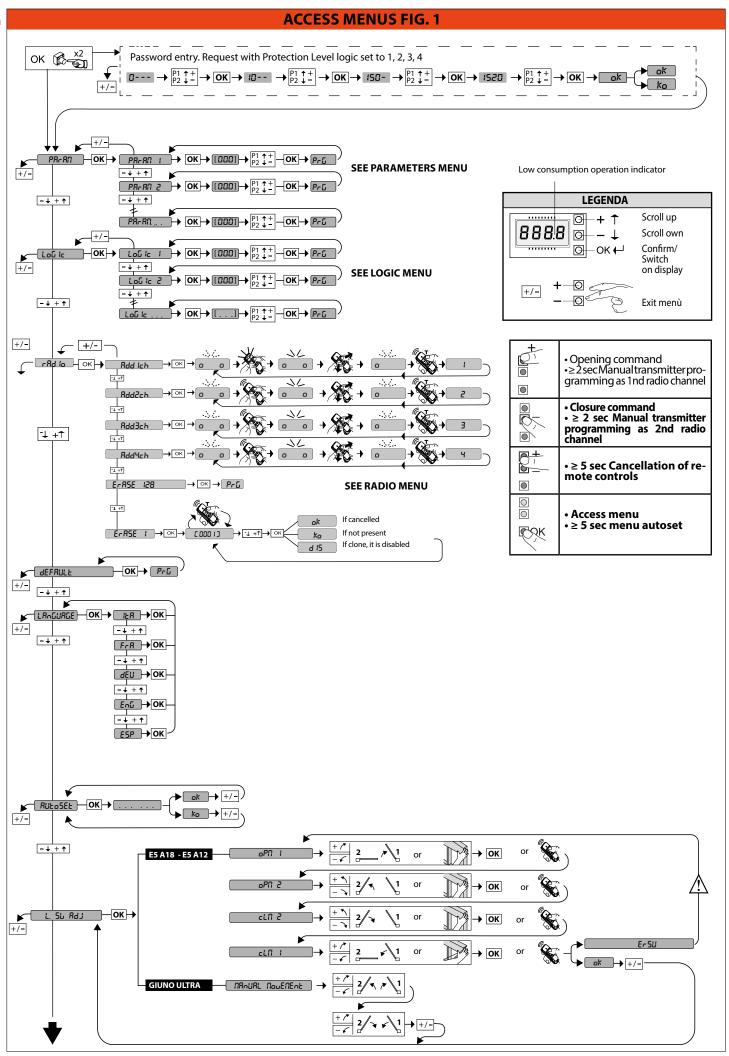
RESTORING FACTORY SETTINGS

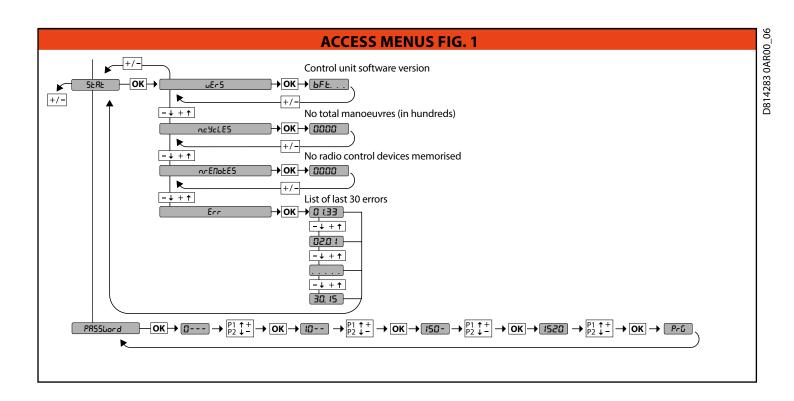
WARNING: this operation will restore the control unit's factory settings and all transmitters stored in its memory will be deleted. WARNING! Incorrect settings can result in damage to property and injury to people and animals.



ENGLISH

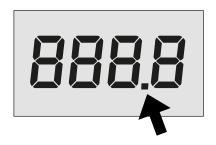








LOW POWER MODE (P5RuE) AND ACCESSORIES



active low power mode

To save energy, the control unit disconnects the power supply of the accessories (terminals 50-51) after 10s that the engine is stationary and then all accessories are switched off; the low consumption mode is indicated by a point on the display.

To allow the setting of the accessories (e.g. alignment of the photocells) it is necessary to set $P5R_{\omega}E=0$; perform the setting and then set $P5R_{\omega}E=1$

If accessories that require uninterrupted power supply (e.g. radio receivers) are used, set $P5R_{\perp}E=0$



Diagnostics code	DESCRIPTION	NOTES
StrE	START E external start input activated	
5Er 1	START I internal start input activated	
oPEn	OPEN input activated	
cL5	CLOSE input activated	
PEd	PED pedestrian input activated	
F ILE	TIMER input activated	
StoP	STOP input activated	
Phot	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	
PhcL	Activation of PHOT CL closing photocell input or, if configured as active verified photocell only when closing, Activation of the associated FAULT input	
bAr	Activation of BAR safety edge input or, if configured as verified safety edge, Activation of the associated FAULT input	
bAro	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	
ЬЯгс	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. WARNING! Obstacle detection not active	
Er01	Photocell test failed	Check photocell connection and/or logic settings
Er02	Safety edge test failed	Check safety edge connection and/or logic settings
Er03	Opening photocell test failed	Check photocell connection and/or parameter/logic setting
Er04	Closing photocell test failed	Check photocell connection and/or parameter/logic setting
Er06	8k2 safety edge test failed	Check safety edge connection and/or parameter/logic settings
Er07	Opening safety edge test failed	Check safety edge connection and/or parameter/logic settings
Er08	Closing safety edge test failed	Check safety edge connection and/or parameter/ logic settings
Er09	Short circuit test between 2 adjacent safety inputs failed.	Check the safety input connection



Diagnostics code	DESCRIPTION	NOTES
Er IH*	Board hardware test error	- Check connections to motor - Hardware problems with board (contact technical assistance)
Er2H*	Encoder error	 Motor or encoder signal power cables inverted/disconnected or incorrect programming (see Fig. E) Actuator movement is too slow or stopped with respect to programmed operation.
Er3H*	Reverse due to obstacle - Amperostop	Check fo r obstacles in path
Er4H*	Thermal cutout	Allow automated device to cool
Er5H*	Communication error with remote devices	Check connection with serial-connected accessory devices and/or expansion boards
Er72	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
Er 73	D-track parameter error	and Logics) Pressing OK, the board will keep on working with D-track as a default. 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.
Er8H*- Er9H*	Internal system supervision control error.	Try switching the board off and back on again. If the problem persists, contact the technical assistance department.
ErF2	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.
ErF4	Auxiliary power output overload	-Check the auxiliary power connectionsCheck the total power absorption of the auxiliaries
ErF9	Solenoid lock output overload	-Check lock connections - Unsuitable lock
Er5b	Error during limit switch adjustment Only for E5 BT A18 / E5 BT A12	Motor or encoder signal power cables inverted/disconnected or incorrect programming. (see Fig. E)

^{*}H= 0, 1, .., 9, A, B, C, D, E, F

1) GENERAL INFORMATION
The THALIA BT A80/ BT A160 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:

D814283 0AR00_06

- Control of 1 or 2 24V BT motors

Control of 1 or 2 244 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 is enough with a sories of provised import to make the or replacement easier. It comes with a series of prewired jumpers to make the installer's job on site easier.

The jumpers concern terminals: 70-71, 70-72, 70-73. If the above-mentioned terminals are being used, remove the relevant jumpers.

2) TESTINGThe **THALIA BT A80/ BT A160** 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.

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 2x1.5mm² 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.

5) TECHNICAL SPECIFICATIONS

	THALIA BT A80	THALIA BT A160	THALIA BT A160 120V					
Power supply	220-230V	50/60 Hz	110-120V 50/60 Hz					
Stand-by consumption		0,48W						
Power	200W	4	00W					
Radio frequency		433.92 MHz						
IP	45 - DUO 55 - FLAT	45 - DUO						
Operating temperature range	-20 / +60°C - 20 / +55°C							
Thermal overload protection	Software							
Accessories power supply	24V (≤ 0.5 A)							
AUX 1	NO 24V powered contact (≤ 1A)							
AUX 2	NO contact (24V ≂ /≤ 1A)							
Max.n° of	128							
transmitters that can be memorized	2048 (only with expansion kit)							

Usable transmitter versions: All ROLLING CODE transmitters compatible with



	Terminal	Definition	Description
er Jy	L	LINE	
Power	N	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
Š	14	MOT2 +	Connection motor 2. Time lag during opening.
	15	MOT2 -	Check connections shown in Fig.E
	20	AUX 1-POWERED CONTACT 24V— (≤ 1A)	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 (S IA)	NANCE. Refer to "AUX output configuration" table.
×	26	AUX 2 - FREE CONTACT (N.O.) $(24V \approx / \le 1A)$	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 ≂ /≤ IA)	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 - Traction lock: active throughout the manoeuvre.
			Max.: 1 A for 1S, 0.2 A for the rest of the manoeuvre.
for /+ / FCE	41	+ REF SWE	Limit switch common
4: PE S + 2	42	SWC 1	Motor 1 closing limit switch SWC1 (N.C.).
MAN MAN MAN MAN MAN Mire	43	SWO 1	Motor 1 opening limit switch SWO1 (N.C.).
t sv LI 2 SN SN S	44	SWC 2	
Limit switch for ELI 250 BT WIRGO SIMARTBT A ELI BT A35 V + FCE ELI BT A40 + FCE 5 wires	45	SWO 2	Motor 2 opening limit switch SWO2 (N.C.).
	42	SW 1	Limit switch control motor 1.
T S E S E S E S E S E S E S E S E S E S			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	43	SW 2	Limit switch control motor 2. For actuators with single-wire limit switch control.
A20 A50	40	- REF SWE	Limit switch common
ch for A BT A BT 118	42	SW 1	Limit switch control motor 1.
Limit switch for GIUNO ULTRA BT A20 GIUNO ULTRA BT A50 E5 BT A18 E5 BT A12	43	SW 2	Limit switch control motor 2.
f No	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
nit s 1 BT	42	ENC M1	Engine 1 encoder signal, green cable
	43	ENC M2	Engine 2 encoder signal, green cable

	Terminal	Definition	Description
ies oply	50	24V-	Accessories power supply output.
Sor	51	24V+	Accessories power supply output.
Accessories power supply	52	24 Vsafe+	Tested safety device power supply output (photocell transmitter and safety edge transmitter). Output active only during operating cycle.
	60	COM IC	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.
O	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	COM	STOP, SAFE 1 and SAFE 2 inputs common
S a	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 / BAR OP / BAR CL TEST / BAR 8K2 OP / BAR CL TEST / BAR 8K2 CL Refer to the "Safety input configuration" table.
, is	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 / BAR OP / TEST / BAR 8K2 OP / BAR CL / BAR CL TEST / BAR 8K2 OP / BAR CL / BAR CL TEST / BAR 8K2 OP / BAR CL / BAR CL TEST / BAR 8K2 OP / BAR CL / BAR CL TEST / BAR 8K2 OP / BAR CL / BAR OP
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 Ł.L IühŁ

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 (output 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 5EEP-by-5EEP חסים Elne logic. External start for traffic light control.

IC logic= 1 - Input configured as Start I. Operation according to 5とEP-by-5とEP のいたのに、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 ПоиЕПлЬ logic

IC logic= 5 - Input configured as Timer.

Operation same as open except closing is guaranteed even after a mains power outage.

IC logic= 6 - Input configured as Timer Ped.

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

Safety input configuration

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

SAFE logic= 1 - Input configured as Phot test (tested photocell). (fig.F, ref.2).

Switches photocell testing on at start of operation. When beam is broken, photocells are active during both opening and closing. When beam is broken during closing, movement is reversed only once the photocell is cleared.

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

SAFE logic= 3 - Input configured as Phot op test (tested photocell active during opening only (fig.F, ref.2).

Switches photocell testing on at start of operation. In the event beam is broken, photocell operation is disabled during closing. During opening, stops motion for as long as the photocell beam stays broken.

SAFE logic= 4 - Input configured as Phot cl (photocell active during closing only) non tested (*). (fig.F, ref.1).

Enables connection of devices not equipped with supplementary test contacts. In the event beam is broken, photocell operation is disabled during opening. During closing, movement is reversed immediately. If not used, leave jumper inserted.

SAFE logic= 5 - Input configured as Phot cl test (tested photocell active during closing only (fig.F, ref.2).

Switches photocell testing on at start of operation. In the event beam is broken, photocell operation is disabled during opening. During closing, movement is reversed immediately.

SAFE logic= 6 - Input configured as Bar (safety edge) non tested (*), (fig.F. ref.3).

Enables connection of devices not equipped with supplementary test contacts. The command reverses movement for 2 sec.. If not used, leave jumper inserted.

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

SAFE logic= 8 - Input configured as Bar 8k2 (fig.F, ref.5). Input for resistive edge 8K2.

The command reverses movement for 2 sec.

SAFE logic=9 Input configured as Bar op, safety edge with active inversion only while opening, if activated while closing, the automation stops (STOP) (Fig. F, ref. 3).

Allows connecting devices not fitted with supplementary test contact. The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop. If not used, leave jumper inserted.

SAFE logic=10 Input configured as Bar op test, safety edge checked with active inversion only while opening, if activated while closing, the automation stops (STOP) (Fig. F, ref. 4).
Activates testing safety edges when starting operation. The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop

SAFE logic=11 Input configured as Bar 8k2 op, 8k2 safety edge with active inversion only while opening, if activated while closing, the automation stops (STOP) (Fig. F, ref. 5). The operation while opening causes the movement to be reversed for 2 seconds, the operation while closing causes the automation to stop.

SAFE logic=12 Input configured as Bar cl, safety edge with active inversion only while closing, if activated while opening, the automation stops (STOP) (Fig. F, ref. 3).

Allows connecting devices not fitted with supplementary test contact. The operation while closing causes the movement to be reversed for 2 seconds, the operation while opening causes the automation to stop. If not used, leave jumper inserted.

SAFE logic=13 Input configured as Bar 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 5EEP-by-5EEP []auEfine logic. External start for traffic light control.

CH logic= 1 - Control configured as Start I. Operation according to 5teP-by-5teP 🖺 uefint logic. Internal start for traffic light control.

CH logic= 2 - Control configured as Open. The command causes the leaves to open.

CH logic= 3 - Control configured as Closed. The command causes the leaves to close.

CH logic= 4 - Control configured as Ped.

The command causes the leaf to open to the pedestrian (partial) opening position. Operation according to 5 \pm EP -b \pm -5 \pm EP -D ω \pm D Δ \pm . 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 (PRc RII) (PARAMETERS TABLE "A")
- 8.2) LOGIC MENU (Loū ໄc) (LOGIC TABLE "B")
- 8.3) RADIO MENU (r Rd la) (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 (RUEo5EE)

- 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

the programming section.
WARNING!! Check that the impact force value measured at the foreseen points is lower than that indicated in the EN 12453 standard. 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

- 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 parameters table.

- A. Check the impact forces again: if they fall within the limits (**) skip to point 10 of the procedure, otherwise
 5. Apply a shock absorber profile
 6. Check the impact forces again: if they fall within the limits (**) skip to point 10 of the procedure, otherwise
- 7. Apply pressure-sensitive or electro-sensitive protective devices (such as a

safety edge) (**)

8. Check the impact forces again: if they fall within the limits (**) skip to point 10 of the procedure, otherwise

9. Allow the drive to move only in "Deadman" mode

10. Make sure all devices designed to detect obstacles within the system's operating range are working properly

(*) Before running the autoset function, make sure you have performed all the assembly and make as a contractive as set out in the installation

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 (£.5½ Rd J)
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 A50Using 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 A18Using 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 network.

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

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

10) 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 impact force value measured at the foreseen points is lower than that indicated in the EN 12453 standard.

Impact forces can be reduced by using deformable edges.

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

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

Parameter	Motors	min.	max.	Default	Personal	Definition	Description
oPEn dELAY E INE		0	10	3		Motor 2 opening delay time [s]	Motor 2 opening delay time with respect to motor 1.
cLS dELAY EINE		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.
ŁcR		0	120	10		Automatic closing time [s]	Waiting time before automatic closing.
PEd ŁcR		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.
trf. Lühtelr. t		1	180	40		Time-to-clear traffic light zone [s]	Time-to-clear for the zone run through by traffic controlled by the traffic light.
E. 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
	SUB BT	10	100				Slow-down distance for motor(s) during opening, given as a percentage of total travel. WARNING:
	E5 BT A18	10	100	10			Once the parameter has been edited, a complet uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstact detection is not active.
oP. d ISt. SLoUd	PHOBOS VELOCE BT B35	10	100		Slow-down distance during opening [%]	Slow-down distance during opening [%]	ATTENTION: with actuators with integrated locks, the permanently active slowdown to a value higher than 5 is mandatory.
	E5 BT A12	20	100				WARNING: in GIUNO, the slow-down distance is set with the sliding sensors
	All others	0	100				ATTENTION: for the ELI BT A35 engine type, the slowing cannot be excluded; values below 10% will be considered to be 10%.
	SUB BT	10	100				Slow-down distance for motor(s) during closing, given as a percentage of total travel. WARNING:
	E5 BT A18	10	100				Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.
cL. d ISE. SLoUd	PHOBOS VELOCE BT B35	10	100	10		Slow-down distance during closing [%]	ATTENTION: with actuators with integrated locks, the permanently active slowdown to a value higher than 5 is mandatory.
	E5 BT A12	20	100				WARNING: in GIUNO, the slow-down distance is set with the sliding sensors ATTENTION: for the ELI BT A35 engine type, the
	All others	0	100				slowing cannot be excluded; values below 10% will be considered to be 10%.
	PHOBOS VELOCE BT B35	15	100				Deceleration distance (switch from running speed to slow-down speed) for motor(s) both
	ELI BT A35 V	15	100				during opening and during closing, given as a percentage of total travel. WARNING: Once
d 15t. dEcEL	ELI BT A35 V + FCE	15	100	15		Deceleration distance [%]	the parameter has been edited, a complete uninterrupted opening-closing cycle is required.
	All others	0	100				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.

Parameter	Motors	min.	max.	Default	Personal	Definition	Description																	
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 (**).																	
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.																	
	SUB BT	20	100				Percentage of maximum speed that can be reached by motor(s) during opening. WARNING: Once																	
oP SPEEd	ELI BT A35 V	20	100	100		Opening speed [%]	the parameter has been edited, a complete uninterrupted opening-closing cycle is required.																	
	All others	15	100				WARNING: when the display reads "SET", obstacle detection is not active.																	
	SUB BT	20	100				Percentage of maximum speed that can be reached by motor(s) during closing. WARNING: Once																	
cL SPEEd	ELI BT A35 V	20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		Closing speed [%]	the parameter has been edited, a complete uninterrupted opening-closing cycle is required.
	All others	15	100				WARNING: when the display reads "SET", obstacle detection is not active.																	
	SUB BT	20	50				Opening and closing speed of motor(s) during slow-																	
	ELI BT A35 V	20	50				downstage, given as a percentage of maximum running speed. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing																	
SLob SPEEd	ELI BT A35 V + FCE	20	50	25		Slow-down speed [%]	cycle is required. WARNING: When the display reads ""SET"", obstacle detection is not active.																	
	PHOBOS VELOCE BT B35	15	50				ATTENTION: for motor type ELI BT A35 it is not possible to exclude the deceleration: values																	
	All others	15	100				greater than 50% will be considered at 50%.																	
NA IntenAnce		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. (**) Impact forces can be reduced by using deformable edges.

TABLE "B" - LOGIC MENU - (LoG (c)

Logic	Definition	Default	Cross out setting used	Optional extras	
			0	Motors not active	
		0	1	NOT MANAGED	
			2	NOT MANAGED	
			3	IGEA BT	
			4	NOT MANAGED	
	Motor type (Set the type of motor connected to the board).		5	NOT MANAGED	
			6	SUB BT	
			7	KUSTOS BT A - PHOBOS BT A - PHOBOS N BT	
Notor type			8	GIUNO ULTRA BT A 20 - GIUNO ULTRA BT A50	
110601 6316			9	VIRGO SMART BT A - 5 wires	
			10	VIRGO SMART BT A - 3 wires	
			11	E5 BT A18	
			12	E5 BT A12	
			13	ELI BT A40 + FCE	
			14	ELI BT A35 V + FCE	
			15	ELI BT A40	
			16	ELI BT A35	
			17	PHOBOS VELOCE BT B35	
	Automatic Closure	0	0	Logic not enabled	
			1	Switches automatic closing on	
EcR			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). \(\frac{\Lambda}{The logic can only be used with pedestrian doors the energy of which is limited to within 1.69J.	

Logic	Definition	Default	Cross out setting used	Optional extras					
PSRJE	Power Down activation	1	0	Power Down DEACTIVATED, i.e. the power supply of the accessories is always present. The stand-by consumption with deactivated logic is > 0.5 W					
	activation		1	Power Down ACTIVE, i.e. the	· · · · · ·		eactivated with th	e gate stopped.	
UL InH I	Activates ULink	0	0	Both U-Link connectors support the new U-Link2.0 protocol. Enabling of the U-Link protocol (previous version) on the optional card connector 1. The previous					
	Protocol		1	version of the U-Link protoc	col can be activated on c	onnector 1.	i cara connector	i. The previous	
FRSE cLS.	Fast closing	0	0	Logic not enabled					
			0	Closes 3 seconds after the p No operative change.	photocells are cleared be	fore waiting f	or the set ICA to	elapse.	
	Battery config.	0	1	Total opening and waiting t	for the power to come ba	ack on.			
bRtt conf 16			2	Partial opening based on th	· · · · · · · · · · · · · · · · · · ·		ing for the power	to come back on.	
			3	Total closure and waiting for the power to come back on.					
			0	Inputs configured as Start E, Start I, Ped operate with step-by-step mov.					
				4-step logic.		2 STEP	3 STEP	4 STEP	
				Inputs configured as Start E, Start I, Ped operate	CLOSED		0012	OPENS	
SEEP-BY-SEEP	Step-by-step		1	with 3-step logic. Pulse during closing reverses	DURING CLOSING	OPENS	OPENS	STOPS	
NouENnt	movement	0		movement.		<u> </u> 	<u> </u> 		
				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	
			0	The flashing light comes on	at the same time as the	motor(s) star	ts.		
PrE-RLR-N	Pre-alarm	0	1-10	The flashing light comes on at the same time as the motor(s) starts. 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.					
	Deadman		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.					
				Emergency Deadman mode. Usually pulse operation.					
		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.					
hoLd-to-rUn				Input of is configured as OFLIN OF. A STATE OF THE OF.					
					device set to Emergency				
				Dead-man function during cl	osina	Deaumanino	de, salety devices	are not enableu.	
				The input 61 is configured as OPEN UP. The input 62 is configured as CLOSE UP.					
			3	The opening manoeuvre occurs automatically, the closing manoeuvre continues until the control button (CLQSE) is pressed.					
			0	WARNING: safety devices are not active during the closure. Pulse from inputs configured as Start F. Start I. Ped has effect during opening.					
oPEn IbL	Block pulses during opening 0 Pulse from inputs configured as Start E, Start I, Ped has effect during opening. 1 Pulse from inputs configured as Start E, Start I, Ped has no effect during opening.								
	Block pulses during	_	0	·					
EcA IBL	TCA	0	1	Pulse from inputs configured as Start E, Start I, Ped has effect during TCA pause. Pulse from inputs configured as Start E, Start I, Ped has no effect during TCA pause.					
cLoSE IbL	Block pulses during	0	0	Pulse from inputs configure					
	closing	<u> </u>	1	Pulse from inputs configure	ed as Start E, Start I, Ped h	nas no effect o	during closing.		
00 11 1	Hammer during opening	0	0	Logic not enabled Before opening completely	the gate pushes for ann	roy 2 second	s as it closes. This	allows the colo	
rRN bLob c.oP			1	noid lock to be released mo	ore easily.				
			0	IMPORTANT - Do not use to Logic not enabled	inis runction if suitable	mechanical	stops are not in I	oiace.	
rAN blob c.cl	Hammer during	0	U	Before closing completely,	the gate pushes for appr	ox. 2 seconds	as it opens. This a	llows the solenoid	
rnii ocou C. CC	closing		1	lock to be released more ea	sily.		•		
	Stop maintenance	0	0	IMPORTANT - Do not use this function if suitable mechanical stops are not in place. Logic not enabled					
bLoc PEr515t				If motors stay idle in fully op					
			1	the direction of the stop for NB: In hydraulic motors, this	function serves to comp	ensate a possi	ble reduction in t	ne volume of oil	
				due to a drop in temperatur leakage.					
				IMPORTANT - Do not use this function if suitable mechanical stops are not in place.					
	Closing limit switch pressure	0	0	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).					
			1	Use when there is a mechan	nical stop in closed positi	ion.			
PrESS Suc				This function allows leaves interpreting this as an obsta	acle.	•	•	•	
				Thus the rod continues its s the mechanical stop. In this	troke for a few seconds a	ofter meeting rest perfectly	the closing limit s	witch or as far as by allowing the	
				closing limit switches to trip			. 3st are stop	.,	

Log	Logic Definition Default Cross out setting used Optional extras		al extras					
lcE		Ice feature	0	1	The Amperostop safety trip threshold stays at the same set value. The controller automatically adjusts the obstacle alarm trip threshold at each start up. WARNING!! Check that the impact force value measured at the foreseen points is lower than that indica the EN 12453 standard. If in doubt, use auxiliary safety devices. This feature is useful when dealing with installations running at low temperatures.			
		Number of active	2	1	WARNING: once this feature has been activated, you will need to perform an autoset opening and closing cycle. Only motor 1 active (1 leaf).			
Not.	00	motors	2	2	Both motors are activated (2 leaves).			
				0	See Fig.E0			
				1	See Fig.E1			
		Installation	0	2	See Fig.E2	Excluding IGEA BT		
InSERLL	LAE Ion			3	See Fig.E3	Excluding IGEA B1		
RLEErn	AF IDE	alternative		4	See Fig.E4			
				5	See Fig.E5	Only for VIRGO		
				6	See Fig.E6	Only for vindo		
				7	See Fig.E7			
				0	Input configured as Phot (photocell).			
1 58	955	Configuration of safety input SAFE 1.	0	1	Input configured as Phot test (tested photocell).			
' ' ' ' '	71. [72		2	Input configured as Phot op (photocell active during opening only).			
				3	Input configured as Phot op test (tested photocell active during opening only).			
				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 58	RFE	safety input SAFE 2.	6	7	Input configured as Bar, tested safety edge.			
		73		8	Input configured as Bar 8k2. (Inactive on SAFE 11,13).			
				9	Input configured as Bar OP, safety edge with inversion active only while opening. If while closing, the ment stops.			
		Configuration of		10	<u>'</u>	ith inversion active only while opening. If while closing,		
Only with an	IO SAFE	safety input SAFE 10. 15 Input configured as Bar OP 8k2, safety edge with inversion acti movement stops. (Inactive on SAFE 11,13).		rersion active only while opening. If while closing, the				
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 ment stops.			
use the expansion card, leave	12 SAFE	Configuration of safety input SAFE 12. 79	input SAFE 12. 15 Input configured as Bar CL TEST, safety edge tested with inversion active on		th inversion active only while closing. If while opening,			
the default setting (15)	I3 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 11,13).			
	ש יייב בי			15	Input configured as deactivated. To be used without the expansion card. (Not active on Safe 1,2).			
		ء نباعم		0	Input configured as Start E.			
,	lc	Configuration of command input IC 1.	0	1	Input configured as Start I.			
,		61		2	Input configured as Open.			
				3	Input configured as Close.			
2	lc	Configuration of command input IC 2. 62	4	5	Input configured as Ped. Input configured as Timer.			
		Configuration of			Input configured as Timer Pedestrian.			
Only with an expansion	10 lc	Configuration of command input IC 10.	2	6				
card	111c	Configuration of command input IC 11. 65	3					
		Configuration of the		0	Radio control configured as START E.			
lc	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			
Zch 3ch Ych		2nd radio channel	9	4	Radio control configured as Ped			
		command		5	Radio control configured as STOP			
		Configuration of the 3rd radio channel command Configuration of the 4th radio channel command	2	6	Radio control configured as AUX1 **			
				7	Not used			
				8	Radio control configured as AUX11 ** (only with an expansion card)			
			5	9	Radio control configured as AUX2 **			
				10	Radio control configured as EXPO1 **			
				11	Radio control configured as EXPO2 ** 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			
IAL	Л Н	Configuration of AUX 1 output. 20-21	6	1	Output configured as a monostable radio channel Output configured as SCA, gate open light.			
2RUH		Configuration of AUX 2 output. 26-27	0	3	Output configured as Courtesy Light command. Output configured as Zone Light command.			

		•		IIVƏTA	ALLATION MANUAL	
Log	gic	Definition	Default	Cross out setting used	Optional extras	
101				4	Output configured as Stair Light	
	IDRUH	Configuration of AUX 10 output. 22-23	3	5	Output configured as Alarm	
		22-23		6	Output configured as Flashing light	
				7	Not used	
				8	Not used Output configured at Maintanance	
Only with an expansion card				10	Output configured as Maintenance Output configured as Flashing Light and Maintenance.	
expansion card			1	11	Not used	
	I IRUH	Configuration of AUX 11 output.		12	Not used	
	_	24-25		13	Output configured as closed Gate Status	
				14	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	
Lo	- U	Lock type. 28-29	0	2	Output configured for 24V snap-action electric lock.	
20	LII	2027		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 15, 0.2 A for the rest of the manoeuvre.	
				0	A - The password is not required to access the programming menus B - Enables wireless memorizing of transmitters. Operations in this mode are carried out near the control panel and do not require access: - Press in sequence the hidden key and normal key (T1-T2-T3-T4) of a transmitter that has already been memorized in standard mode via the radio menu. - Press within 10 sec. the hidden key and normal key (T1-T2-T3-T4) of a transmitter to be memorized. The receiver exits programming mode after 10 sec.: you can use this time to enter other new transmitters by repeating the previous step. C - Enables wireless automatic addition of 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	
Prot) E	Setting the protection level		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 from 0 logic setting	
,, 05.			0	2	Not used	
			3	A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wireless automatic addition of Replays is disabled. Function C remains unchanged with respect to function 0		
				4	 A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wireless automatic addition of Replays is disabled. D - The option of editing the board's parameters via the U-link network is disabled. Transmitters are memorized only using the relevant Radio menu. 	
		Serial mode		0	Standard SLAVE: board receives and communicates commands/diagnostics/etc.	
SEr IRL	. NodE	(Identifies how board is configured in a BFT	0	1	Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other	
8.44		network connection).	_		ldentifies board address from 0 to 119 in a local BFT network connection.	
Rddr	-655	Address	0	[]	(see U-LINK OPTIONAL MODULES section)	
PUSH	າ ໂທ	Push&Go (Only for E5 BT A12)	0	0	Logic not active	
				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.	
			1	3	Input configured as Open command.	
				4	Input configured as Close command. 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 Prior of Safety (prior occur active during closing only).	
! 5	HP I	EXPI1 input on input-output expan-		11	Input configured as safety Bar OP, safety edge with inversion active only while opening, if whil the movement stops.	
, ,		sion board.		12	Input configured as safety Bar CL, safety edge with inversion active only while closing, if while opening the movement stops.	
				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	is switched automatically to safety device test input, EXPFAULT1. Input configured as Phot op test safety, tested photocell active only while opening. Input 3 (EXPI2) or input/output expansion board is switched automatically to safety device test input, EXPFAULT1	
				15	input/output expansion board is switched automatically to safety device test input, EXPFAULT1 Input configured as Phot cl test safety, tested photocell active only while closing. Input 3 (EXPI2) or 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 switched automatically to safety device test input, EXPFAULT 1.	
				17	switched automatically to safety device test input, EXPFAULT1. 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.	
		<u> </u>		10	to safety device test input, EXPFAULT 1. 27 or imput output expansion board is switched automatically	

Logic	Definition	Default	Cross out setting used	Optional extras
			0	Input configured as Start E command.
			1	Input configured as Start I command.
	Configuration of EXPI2 input		2	Input configured as Open command.
			3	Input configured as Close command.
			4	Input configured as Ped command.
			5	Input configured as Timer command.
3.500			6	Input configured as Timer Pedestrian command.
2 EHP I	on input-output expansion board.	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 Bar safety (safety edge).
			11	Input configured as safety Bar OP, safety edge with inversion active only while opening, if while closing the movement stops.
			12	Input configured as safety Bar CL, safety edge with inversion active only while closing, if while opening the movement stops.
	Configuration of EXPO1 output on input-output expansion board 4-5	11	0	Output configured as 2 nd Radio Channel.
			1	Output configured as SCA (gate open light).
l EHPo			2	Output configured as Courtesy Light command.
			3	Output configured as Zone Light command.
			4	Output configured as Stair Light.
			5	Output configured as Alarm.
		11	6	Output configured as Flashing light.
	Configuration of EXPO2 output on input-output expansion board 6-7		7	Output configured as Latch.
			8	Output configured as Magnetic lock.
			9	Output configured as Maintenance.
2 EHPo			10	Output configured as Flashing Light and Maintenance.
c coro			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- shing	0	0	Output configured as open Gate Status
PrEFLASh InG			1	Red lights flash, for 3 seconds, at start of operation.
ErAFF Ic LIGHE	Secondily list and limbs	0	0	Red lights off when gate closed.
rEd LANP ALUAYS	Steadily lit red light	0	1	Red lights on when gate closed.

TABLE "C" - RADIO MENU (cRd to)

Logic	Description				
Rdd Ich	associates the desired key with the 1nd radio channel command.				
Add2ch	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.					
AddYch	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 1	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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